Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Revision to a
Federally Enforceable State Operating Permit (FESOP)

for A. Raymond Tinnerman Manufacturing, Inc. in Cass County

Significant Permit Revision No.: 017-36809-00027

The Indiana Department of Environmental Management (IDEM) has received an application from A. Raymond Tinnerman Manufacturing, Inc., located at 800 West County Road 250 South, Logansport, Indiana 46947, for a significant revision of its FESOP issued on May 18, 2007. If approved by IDEM's Office of Air Quality (OAQ), this proposed revision would allow A. Raymond Tinnerman Manufacturing, Inc. to make certain changes at its existing source. A. Raymond Tinnerman Manufacturing, Inc. Name has applied to describe the existing dip-spin coating lines No.1 and No. 2 in the permit as separate coating lines. Currently these coating operations are described as a single coating line in the permit.

This draft significant permit revision does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed, or removed. This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow for these changes.

A copy of the permit application and IDEM's preliminary findings are available at:

Logansport- Cass County Public Library
616 E Broadway
Logansport, IN 46947

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you

do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SPR 017-36809-00027 in all correspondence.

Comments should be sent to:

Mehul Sura
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension (2 or 3-3838)
Or dial directly: (317) 233-6868
Fax: (317)-232-6749 attn: Mehul Sura
E-mail: msura@IDEM.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Mehul Sura of my staff at the above address.

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

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Carol S. Comer, *Commissioner*

DRAFT

Vince Rhoades, Finishing Superintendent
A. Raymond Tinnerman Manufacturing, Inc.
800 West County Road 250 South
Logansport, IN 46947

Re: 017-36809-00027
Significant Revision to
F017-24109-00027

Dear Mr. Rhoades:

A. Raymond Tinnerman Manufacturing, Inc. was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F017-24109-00027 on May 18, 2007 for a stationary metal stamping source including electroplating operations, surface coating operations and heat treatment of metals parts located at 800 West County Road 250 South, Logansport, IN 46947. On February 5, 2016, the Office of Air Quality (OAQ) received an application from the source requesting to describe the existing dip-spin coating lines No.1 and No. 2 in the permit as separate coating lines. Currently these coating operations are described as a single coating line in the permit. The attached Technical Support Document (TSD) provides additional explanation of the changes to the permit. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire FESOP as revised. The permit references the below listed attachments. Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this revision:

Attachment A: 40 CFR 60, Subpart JJJJ New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines

Attachment B: 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Attachment C: 40 CFR 63, Subpart WWWWWW National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations

Previously issued approvals for this source containing these attachments are available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit 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 Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Mehul Sura of my staff at 317-233-6868 or 1-800-451-6027, and ask for extension 3-6868.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

mns

cc: File - Cass County
Cass County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch

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Carol S. Comer
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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT RENEWAL
OFFICE OF AIR QUALITY

A. Raymond Tinnerman Manufacturing, Inc.
800 West County Road 250 South
Logansport, Indiana 46947

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F017-24109-00027	
Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: May 18, 2007 Expiration Date: May 18, 2017

Administrative Amendment No. 017-25554-00027, issued on January 8, 2008
Administrative Amendment No. 017-28629-00027, issued on November 18, 2009
Administrative Amendment No. 017-34679-00027, issued on August 29, 2014

Significant Permit Revision No. 017-36809-00027	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: May 18, 2017

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary metal stamping source including electroplating operations, surface coating operations, and heat treating of metal parts.

Source Address:	800 West County Road 250 South, Logansport, Indiana 46947
Mailing Address:	P.O. Box 660, 800 West County Road 250 South, Logansport, IN 46947
General Source Phone Number:	(574) 722-5168
SIC Codes:	3398 - Metal Heat Treat 3469 - Metal Stamping, NEC 3471 - Electroplating, Plating, Polishing, Anodizing, Coloring 3479 - Coating, Engraving and Allied Services, NEC 3714 - Motor Vehicle Parts and Accessories 3499 - Fabricated Metal Parts, NEC
County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) metal part surface coating operation, identified as EU-1, consisting of two (2) independent dip coating lines as follows:

(i) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 1, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S1A-D.

(ii) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 2, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S2A-D.

(b) Two (2) wheelabrator abrasive tumble blasting units, identified as EU-6a and EU-6b, each with a maximum process weight rate of 2100 pounds per hour, equipped with a common cartridge type dust collector with a design outlet grain loading of 0.03 grains per actual standard cubic feet, with a maximum air flow rate of 4500 actual cubic feet per minute (acfm). The wheelabrators were constructed in 2002.

(c) One (1) Hydrogen Relieve Oven, approved for construction in 2008, as a dip spin coating line, identified as EU-10, converted to a Hydrogen Relive Oven in 2011:

(1) One (1) pre-heat stage, exhausting through one (1) stack, identified as S10B;

(2) One (1) heating stage, exhausting through one (1) stack, identified as S10C; and

(3) One (1) cooling stage, exhausting through one (1) stack, identified as S10D.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

(a) One (1) zinc electroplating process, consisting of one (1) acid zinc electroplating line, and two (2) zinc phosphate coating lines, emitting less than 5 pounds per day of hydrochloric acid gas emissions from metal cleaning operation, controlled by two (2) acid scrubbers, each with a gas flow rate of 23,300 acfm. The zinc electroplating operation was constructed in 1995.

Under 40 CFR 63, Subpart WWWWWW, the dichromate dip tanks associated with this process are considered an affected source.

(b) Degreasing operations that do not exceed 145 gallons per 12 months:

(1) four (4) sinks for parts washing located in the Tool Room, Main Plant Maintenance area, Finishing Maintenance area and Punch Press area.

(c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than 4,000 actual cubic feet per minute (acfm), including the following:

(1) one (1) tool grinding operation, identified as EU-2, with a maximum process weight rate of 43.2 pounds per hour, with particulate matter emissions controlled by two (2) baghouses. The tool grinding operation was constructed in 1987;

(2) one (1) grinding operation, identified as EU-8, utilizing glass bead media, with a maximum process weight rate of 19.5 pounds per hour, with particulate matter emissions controlled by one (1) tube filter. The glass bead grinding operation was constructed in 1987.

(d) One (1) natural gas-fired heat treat/carburizing furnace, identified as EU-3, using methanol to produce a carbon monoxide and hydrogen rich atmosphere, equipped with twelve (12) natural-gas fired tube burners, each with a maximum heat input capacity of 0.6 MMBtu per hour, and one (1) integrally designed open flame exit burner, which combusts carbon monoxide with a 98% control efficiency, emitting less than 25 pounds per day of carbon monoxide. The heat treat/carburizing furnace was constructed in 1990. The tube burners were constructed in 1991.

(e) One (1) natural gas-fired heat treat/carburizing furnace, approved for construction in 2008, identified as EU-11, using methanol to produce a carbon monoxide and hydrogen rich atmosphere, equipped with one (1) natural-gas fired oven hardening furnace unit with a maximum heat input capacity of 1.08 MMBtu per hour, one (1) natural-gas fired oven molten salt tank burner with a maximum heat input capacity of 0.73 MMBtu per hour, and one (1) integrally designed open flame exit burner, which combusts carbon monoxide with a 98% control efficiency, emitting less than 25 pounds per day of carbon monoxide.

(f) One (1) corrosion inhibitor dip coating unit, identified as EU-9, using a solvent based inhibitor, with a maximum throughput of 1,666 parts per hour. The inhibitor dip coating unit was constructed in 2006.

(g) One (1) natural gas-fired boiler for plating operations, with a maximum heat input capacity of 9.734 MMBtu per hour. The boiler was constructed in 1995. [326 IAC 6-2-4]

(h) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:

(1) one (1) precure oven on coating Line No. 1, with a maximum heat input capacity of 2.0 million British thermal units (MMBtu) per hour. The precure oven was constructed in 1989;

(2) one (1) cure oven on coating Line No. 1, with a maximum heat input capacity of 3.0 MMBtu per hour. The cure oven was constructed in 1989;

(3) one (1) precure oven on coating Line No. 2, with a maximum heat input capacity of 2.0 MMBtu per hour. The precure oven was constructed in 1989;

(4) one (1) cure oven on coating Line No. 2, with a maximum heat input capacity of 3.0 MMBtu per hour. The cure oven was constructed in 1989;

(5) main building space heating, utilizing natural gas-fired units with a total heat input capacity of 9.0 MMBtu per hour. The space heating was constructed in 1985;

(6) coating building space heating, utilizing natural gas-fired units with a total heat input capacity of 7.13 MMBtu per hour. The coating building space heating was constructed in 1989;

(7) Three (3) aqueous mechanical plating spin drying ovens, identified as SPD-1. SPD2, and SPD3, approved for construction in 2008, each with a maximum heat input capacity of 0.18 million British thermal units (MMBtu) per hour.

(8) One (1) natural gas-fired burn off oven, identified as BO-1, approved in 2014 for construction, consisting of a primary and secondary chamber, each chamber having a separate burner, and having a combined maximum heat input capacity of 0.416 MMBtu/hr, used to remove paint residue from metal coating racks, using an in-stack afterburner for control and exhausting through stack SBO-1.

(i) Combustion source flame safety purging on startup.

(j) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(k) Refractory storage not requiring air pollution control equipment.

(l) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

(m) Machining where an aqueous cutting coolant continuously floods the machining interface.

(n) Cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees Celsius (100ºF) or;

(2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 degrees Celsius (68ºF);

the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

(o) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment.

(p) Closed loop heating and cooling systems.

(q) Rolling oil recovery systems.

(r) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(s) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.

(t) Noncontact cooling tower systems with forced and induced draft cooling tower systems not regulated under a NESHAP.

(u) Quenching operations used with heat treating processes.

(v) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(w) Paved and unpaved roads and parking lots with public access.

(x) Enclosed conveyor systems for conveying plastic raw materials and plastic finished goods.

(y) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(z) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(aa) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

(bb) One (1) 15 KW natural gas-fired emergency generator, identified as E-1, installed prior to July 5, 2005 and used in the Main Plant for emergency lighting, with a rated output of 20.1 horsepower, using no control and exhausting to the atmosphere.
Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source.

(cc) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(dd) Farm operations.

(ee) One (1) 45 KW natural gas-fired emergency generator, identified as E-2, installed July 1, 2010 and located in the Shipping Department, with a rated output of 60.3 horsepower, using no control and exhausting to the atmosphere.

Under 40 CFR 60, Subpart JJJJ, this unit is considered an affected source.

(ff) One (1) 70 KW natural gas-fired emergency generator, identified as E-3, installed July 1, 2010 and located in the Heat Treat Department, with a rated output of 93.8 horsepower, using no control and exhausting to the atmosphere.

Under 40 CFR 60, Subpart JJJJ, this unit is considered an affected source.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, F017-24109-00027, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

(1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and

(2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

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

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance 326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1-1-1(1).

The Permittee shall implement the PMPs.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to F017-24109-00027 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.15 Reserved

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in

326 IAC 2-8-15(b) and (c) without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b)(1) and (c). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(1) and (c).

(b) Emission Trades [326 IAC 2-8-15(b)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(b).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(c)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such,

the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 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.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If**,** due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days, after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.12 Reserved

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable responsesresponse steps taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

(AA) All calibration and maintenance records

(BB) All original strip chart recordings for continuous monitoring instrumentation

(CC) Copies of all reports required by the FESOP

Records of required monitoring information include the following, where applicable:

(AA) The date, place as defined in this permit, and time of sampling or measurements.

(BB) The dates analyses were performed.

(CC) The company or entity that performed the analyses

(DD) The analytical techniques or methods used.

(EE) The results of such analyses.

(FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

(e) If the Permittee is a member of IDEM's Environmental Stewardship Program (ESP), the Permittee may report in the manner below for any reporting requirement except Section B - Deviations from Permit Requirements, that allows reporting per this paragraph:

(1) Each report shall be submitted semi-annually, covering the period from April 1 to September 30 or October 1 to March 31.

(2) Each report, shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(3) Each report shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(4) The Permittee shall use the attached Environmental Stewardship Program Reporting Forms or their equivalent.

(5) Each report shall be submitted to the address listed in paragraph (b) of this condition.

If the Permittee is removed from or withdraws from the ESP, the Permittee shall begin quarterly reporting according to paragraphs (a) through (e) of this condition and the condition(s) requiring the reporting. If the Permittee is removed from or withdraws from the ESP during the second quarter of a semi-annual period, the Permittee shall submit all reports for the first quarter of the period within thirty (30) days of the removal or withdrawal.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description [326 IAC 2-8-4(10)]:

(a) One (1) metal part surface coating operation, identified as EU-1, consisting of two (2) independent dip coating lines as follows:

(i) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 1, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S1A-D.

(ii) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 2, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S2A-D.

(c) One (1) metal part dip spin surface coating line, approved for construction in 2008, as a dip spin coating line, identified as EU-10, converted to a Hydrogen Relive Oven in 2011:

(1) One (1) pre-heat stage, exhausting through one (1) stack, identified as S10B;

(2) One (1) heating stage, exhausting through one (1) stack, identified as S10C; and

(3) One (1) cooling stage, exhausting through one (1) stack, identified as S10D.

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

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

D.1.1 VOC Limits [326 IAC 8-2-9] [326 IAC 8-1-6]

In order to render 326 IAC 8-1-6 and 326 IAC 8-2-9 not applicable, the Permittee shall comply with the following:

(a) The VOC input, including coatings, dilution solvents, and cleaning solvents, to Line No. 1 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The VOC input, including coatings, dilution solvents, and cleaning solvents, to Line No. 2 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits will limit the VOC emissions from each of Lines No. 1 and No. 2 to less than 25 tons per year and will render 326 IAC 8-2-9 (Miscellaneous Metal Coating) and 326 IAC 8-1-6 (BACT) not applicable to these facilities.

D.1.2 HAP Limits [326 IAC 2-8] [326 IAC 2-4.1]

(a) The total combined input of any single HAP to Lines No. 1 and No. 2, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit renders 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.

(b) The total input of combined HAPs to Lines No. 1 and No. 2, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 23 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit, in combination with the potential HAPs emissions from all other emission units will limit the combined HAPs emissions from the source to less than 25 tons per year and will render 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for Lines No. 1 and No. 2. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.1.4 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC and HAP usage limitations contained in Conditions D.1.1 and D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC and HAP data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.5 Record Keeping Requirements

(a) To document the compliance status with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (4) below for each of Lines No. 1 and No. 2. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

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

(2) The amount of coating material and solvent less water used on a monthly basis.

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

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

(3) The total VOC and HAP usage for each month; and

(4) The weight of VOCs and HAPs emitted for each compliance period.

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

D.1.6 Reporting Requirements

If the Permittee is a member of IDEM's Environmental Stewardship Program (ESP) program, the Permittee may submit reports summarizing the information to document compliance with Condition D.1.1 according to the provisions of paragraph (e) of Section C - General Reporting Requirements.

Otherwise, a quarterly summary of the information to document the compliance status with Condition D.1.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements 326 IAC 2-8-5(a)(1) by an “authorized individual” as defined by 326 IAC 2-

1.1-1(1).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(b) Two (2) wheelabrator abrasive tumble blasting units, identified as EU-6a and EU-6b, each with a maximum process weight rate of 2100 pounds per hour, equipped with a common cartridge type dust collector with a design outlet grain loading of 0.03 grains per actual standard cubic feet, with a maximum air flow rate of 4500 actual cubic feet per minute (acfm). The wheelabrators were constructed in 2002.

Insignificant Activities:

(a) One (1) zinc electroplating process, consisting of one (1) acid zinc electroplating line, and two (2) zinc phosphate coating lines, emitting less than 5 pounds per day of hydrochloric acid gas emissions from metal cleaning operation, controlled by two (2) acid scrubbers, each with a gas flow rate of 23,300 acfm. The zinc electroplating operation was constructed in 1995.

Under 40 CFR 63, Subpart WWWWWW, the dichromate dip tanks associated with this process are considered and affected source.

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

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

D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each of the two wheelabrators, identified as EU-6a, EU-6b, and EU-6c, shall not exceed 4.24 pounds per hour each when operating at a process weight rate of 2,100 pounds per hour each. The pounds per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.2.2 PSD Minor Limit [326 IAC 2-2]

(a) The combined particulate matter (PM/PM-10) emissions from the two wheelabrators, identified as EU-6a, EU-6b, and EU-6c, shall be less than 12.71 pounds per hour.

(b) The amperage to the zinc electroplating tanks shall not exceed 12,000 amps.

Compliance with these PM and PM-10 limits and the limits in Condition D.3.2, in combination with the potential emissions of PM/PM-10 from insignificant activities, will render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.2.3 PM-10 [326 IAC 2-8]

(a) The combined PM-10 emissions from the two wheelabrators, identified as EU-6a and EU-6b, shall be less than 12.71 pounds per hour.

(b) The amperage to the zinc electroplating tanks shall not exceed 12,000 amps.

Compliance with this PM-10 limit and the limit in Condition D.3.3, in combination with the potential emissions of PM-10 from insignificant activities, will satisfy the requirements of 326 IAC 2-8-4 (FESOP) and render the requirements 326 IAC 2-7 (Part 70) not applicable.

D.2.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for the two (2) wheelabrators, identified as EU-6a and EU-6b and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.2.5 Particulate Control (PM and PM-10)

In order to comply with Conditions D.2.1, D.2.2, and D.2.3 the cartridge type dust collector for particulate control shall be in operation and control emissions from the wheelabrators at all times that any one of the three wheelabrators are in operation.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Insignificant Activities:

(b) Degreasing operations that do not exceed 145 gallons per 12 months:

(1) four (4) sinks for parts washing located in the Tool Room, Main Plant Maintenance area, Finishing Maintenance area and Punch Press area.

(c) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than 4,000 actual cubic feet per minute (acfm), including the following:

(1) one (1) tool grinding operation, identified as EU-2, with a maximum process weight rate of 43.2 pounds per hour, with particulate matter emissions controlled by two (2) baghouses. The tool grinding operation was constructed in 1987;

(2) one (1) grinding operation, identified as EU-8, utilizing glass bead media, with a maximum process weight rate of 19.5 pounds per hour, with particulate matter emissions controlled by one (1) tube filter. The glass bead grinding operation was constructed in 1987.

(d) One (1) natural gas-fired heat treat/carburizing furnace, identified as EU-3, using methanol to produce a carbon monoxide and hydrogen rich atmosphere, equipped with twelve (12) natural-gas fired tube burners, each with a maximum heat input capacity of 0.6 MMBtu per hour, and one (1) integrally designed open flame exit burner, which combusts carbon monoxide with a 98% control efficiency, emitting less than 25 pounds per day of carbon monoxide. The heat treat/carburizing furnace was constructed in 1990.

(e) One (1) natural gas-fired heat treat/carburizing furnace, approved for construction in 2008, identified as EU-11, using methanol to produce a carbon monoxide and hydrogen rich atmosphere, equipped with one (1) natural-gas fired oven hardening furnace unit with a maximum heat input capacity of 1.08 MMBtu per hour, one (1) natural-gas fired oven molten salt tank burner with a maximum heat input capacity of 0.73 MMBtu per hour, and one (1) integrally designed open flame exit burner, which combusts carbon monoxide with a 98% control efficiency, emitting less than 25 pounds per day of carbon monoxide.

(f) One (1) corrosion inhibitor dip coating unit, identified as EU-9, using a solvent based inhibitor, with a maximum throughput of 1,666 parts per hour. The inhibitor dip coating unit was constructed in 2006.

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

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

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

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

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.3.2 PSD Minor Limit [326 IAC 2-2]

Particulate matter (PM/PM-10) emissions from the grinding operations, identified as EU-2 and EU-8, shall each not exceed 0.551 pounds of PM/PM-10 per hour.

Compliance with these PM and PM-10 limits and the PM/PM-10 limits in Condition D.2.2, in combination with the potential emissions of PM/PM-10 from insignificant activities, will keep PM and PM-10 emissions from the source to less than 250 and 100 tons per year, respectively, and will render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.3.3 PM-10 [326 IAC 2-8]

The PM-10 emissions from the grinding operations, identified as EU-2 and EU-8, shall each not exceed 0.551 pounds per hour.

Compliance with this PM-10 limit and the PM-10 limit in Condition D.2.3, in combination with the potential emissions of PM-10 from insignificant activities, will keep PM-10 emissions from the source to less than 100 tons per year and will render the requirements 326 IAC 2-7(Part 70) not applicable.

D.3.4 Particulate Control (PM and PM-10)

(a) In order to comply with Conditions D.3.2 and D.3.3, the two (2) baghouses for particulate control shall be in operation and control emissions from the tool grinding operation (EU-2) at all times that EU-2 is in use.

(b) In order to comply with Conditions D.3.2 and D.3.3, the one (1) tube filter for particulate control shall be in operation and control emissions from the glass bead grinding operation (EU-8) at all times that EU-8 is in use.

D.3.5 Carbon Monoxide (CO) Control

(a) The one (1) open flame burner for carbon monoxide (CO) control associated with EU-3 shall be in operation and control emissions from the heat treat/carburizing furnace (EU-3) at all times that the furnace is in use.

(b) The one (1) open flame burner for carbon monoxide (CO) control associated with EU-11 shall be in operation and control emissions from the heat treat/carburizing furnace (EU-11) at all times that the furnace is in use.

D.3.6 Volatile Organic Compound (VOC) Limitation [326 IAC 8-2-9]

The usage of VOCs in the corrosion inhibitor dip coating unit, identified as EU-9, including coatings, dilution solvents, and clean-up solvents, shall be limited to less than fifteen (15) pounds per day, with compliance determined at the end of each day.

This limit is required to limit emissions of VOCs from the one corrosion inhibitor dip coating unit to less fifteen (15) pounds per day. Compliance with this VOC limit shall render 326 IAC 8-2-9 (Miscellaneous Metal Coating) not applicable.

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.3.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC usage limitations contained in Condition D.3.6 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC data sheets. IDEM, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures

specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.8 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.6, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage/emission limitation established in Condition D.3.6.

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

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

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

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

(3) The daily cleanup solvent usage; and

(4) The total VOC usage for each day.

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

D.3.9 Reporting Requirements

If the Permittee is a member of IDEM's Environmental Stewardship Program (ESP) program, the Permittee may, submit reports summarizing the information to document compliance with Condition D.3.6 according to the provisions of paragraph (f) of Section C - General Reporting Requirements.

Otherwise, a quarterly summary of the information to document the compliance status with Condition D.3.6 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements 326 IAC 2-8-5(a)(1) by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Insignificant Activities:

(f) One (1) natural gas-fired boiler for plating operations, with a maximum heat input capacity of 9.734 MMBtu per hour. The boiler was constructed in 1995. [326 IAC 6-2-4]

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

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

D.4.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from the 9.734 MMBtu per hour heat input boiler shall not exceed 0.6 pounds per MMBtu heat input.

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Insignificant Activities:

(8) One (1) natural gas-fired burn off oven, identified as BO-1, approved in 2014 for construction, consisting of a primary and secondary chamber, each chamber having separate burner, and having a combined maximum heat input capacity of 0.416 MMBtu/hr used to remove paint residue from metal coating racks, using an in-stack afterburner for control and exhausting through stack SBO-1.

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

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

D.5.1 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2 (Incinerators), the natural gas-fired burn off oven shall comply with the following:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(e) Not emit particulate matter in excess of one (1) of the following:

(1) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.

(2) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.

(f) If any of the requirements of (a) through (e) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

The Permitee operating the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

D.5.2 Carbon Monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate natural gas-fired burn off oven, unless the waste gas stream is burned in one of the following:

(a) Direct-flame afterburner; or

(b) Secondary chamber.

D.5.3 Preventive Maintenance Plan [326 IAC 1-6-3]

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

SECTION E.1 OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(ee) One (1) 45 KW natural gas-fired emergency generator, identified as E-2, installed July 1, 2010 and located in the Shipping Department, with a rated output of 60.3 horsepower, using no control and exhausting to the atmosphere.

Under 40 CFR 60, Subpart JJJJ, this unit is considered an affected source.

(ff) One (1) 70 KW natural gas-fired emergency generator, identified as E-3, installed July 1, 2010 and located in the Heat Treat Department, with a rated output of 93.8 horsepower, using no control and exhausting to the atmosphere.

Under 40 CFR 60, Subpart JJJJ, this unit is considered an affected source.

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

New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ]

E.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, except as otherwise specified in 40 CFR Part 60, Subpart JJJJ.

E.1.2 New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ][326 IAC 12]

The Permittee, who owns or operates a stationary spark ignition internal combustion engine, shall comply with the following provisions of 40 CFR Part 60, Subpart JJJJ (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 12:

(1) 40 CFR 60.4230(a)(4)(iv)
(2) 40 CFR 60.4233(e)
(3) 40 CFR 60.4234
(4) 40 CFR 60.4236(c)
(5) 40 CFR 60.4237(b)
(6) 40 CFR 60.4243(b)(1)
(7) 40 CFR 60.4243 (d)
(8) 40 CFR 60.4243 (e)
(9) 40 CFR 60.4245(a)
(10) 40 CFR 60.4246
(11) 40 CFR 60.4248
(12) Table 1
(13) Table 3

SECTION E.2 OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(bb) One (1) 15 KW natural gas-fired emergency generator, identified as E-1, installed prior to July 15, 2005 and used in the Main Plant for emergency lighting, with a rated output of 20.1 horsepower, using no control and exhausting to the atmosphere.

Under 40 CFR 63, Subpart ZZZZ, this unit is considered an affected source.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 2-8-4(1)]

E.2.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

E.2.2 National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee, which owns or operates a stationary Reciprocating Internal Combustion Engine, shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 20]:

(1) 40 CFR 63.6605
(2) 40 CFR 63.6625(e),(f),(h) and (i)
(3) 40 CFR 63.6640
(4) 40 CFR 63.6655
(5) 40 CFR 63.6603, Table 2d

SECTION E.3 OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(a) One (1) zinc electroplating process, consisting of one (1) acid zinc electroplating line, and two (2) zinc phosphate coating lines, emitting less than 5 pounds per day of hydrochloric acid gas emissions from metal cleaning operation, controlled by two (2) acid scrubbers, each with a gas flow rate of 23,300 acfm. The zinc electroplating operation was constructed in 1995.

Under 40 CFR 63, Subpart WWWWWW, the dichromate dip tanks associated with this process are considered an affected source.

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

National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWWW] [326 IAC 2-8-4(1)]

E.3.1 General Provisions Relating to NESHAP WWWWWW [326 IAC 20-1][40 CFR Part 63, Subpart A]

The Permittee, which owns or operates a zinc plating operation, shall comply with the following provisions of 40 CFR Part 63, Subpart WWWWWW (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 20:

E.3.2 National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWW] [IAC 12]

The Permittee, which owns or operates a zinc plating operation, shall comply with the following provisions of 40 CFR Part 63, Subpart WWWWWW (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 20:

(1) 40 CFR 63.11504(a)(iii)
(2) 40 CFR 63.11505(a)(1)
(3) 40 CFR 63.11506
(4) 40 CFR 63.11507(g)
(5) 40 CFR 63.11508(a),(b)
(6) 40 CFR 63.11508(d)(1,2,8)
(7) 40 CFR 63.11509
(8) 40 CFR 63.11510
(9) 40 CFR 63.11511
(10) 40 CFR 63.11512
(11) Table 1 to Subpart WWWWWW

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)_____

☐ Report (specify)_____

☐ Notification (specify)_____

☐ Affidavit (specify)_____

☐ Other (specify)_____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027

This form consists of 2 pages **Page 1 of 2**

□ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance and Enforcement Branch); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-8-12

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch

FESOP Usage Report

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027
Facility: One (1) corrosion inhibitor dip coating unit (EU-9)
Parameter: VOC Usage
Limit: The usage of VOCs in the corrosion inhibitor dip coating unit, including coatings, dilution solvents, and clean-up solvents, shall be limited to less than fifteen (15) pounds per day, with compliance determined at the end of each day.

Month: _____ Quarter _____ Year: _____

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

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch

FESOP ESP Semi Annual Report

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027
Facility: Metal parts surface coating operation (EU-1) consisting of two (2) dip spin lines No. 1 and No. 2

Parameter: Single HAP usage
Limit: The total combined input of any single HAP to the two (2) dip spin coating lines No. 1 and No. 2, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Parameter: Total HAP usage
Limit: The total input of combined HAPs to the two (2) dip spin coating lines No. 1 and No. 2, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 23 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:_____

Month	Column 1a	Column 1b	Column 2a	Column 2b	Column 1a + 2a	Column 1b + 2b
	Single HAP Usage This Month	Total HAP Usage This Month	Single HAP Usage Previous 11 Months	Total HAP Usage Previous 11 Months	Single HAP Usage 12 Month Total	Total HAP Usage 12 Month Total

☐ No deviation occurred in this period. ☐ Deviation/s occurred in this period.

Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch

FESOP ESP Semi Annual Report

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027
Facility: two (2) dip spin lines (No. 1 and No. 2)
Parameter: VOC input
Limit c: The VOC input (including coatings, dilution solvents, and cleaning solvents) at each of the dip spin coating lines No. 1 and No. 2 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:_____

Month	dip spin coating line	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12 Month Total
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			

☐ No deviation occurred in this period. ☐ Deviation/s occurred in this period.

Deviation has been reported on:_____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B- Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C - General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked ANo deviations occurred this reporting period@.

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Page 2 of 2

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP) Renewal

Source Description and Location

Source Name:	A. Raymond Tinnerman Manufacturing, Inc.
Source Location:	800 West County Road 250 South, Logansport, Indiana 46947
County:	Cass
SIC Codes:	3398 - Metal Heat Treat 3469 - Metal Stamping, NEC 3471 - Electroplating, Plating, Polishing, Anodizing, Coloring 3479 - Coating, Engraving and Allied Services, NEC 3714 - Motor Vehicle Parts and Accessories 3499 - Fabricated Metal Parts, NEC
Operation Permit No.:	F017-24109-00027
Operation Permit Issuance Date:	May 18, 2017
Significant Permit Revision No.:	017-36809-00027
Permit Reviewer:	Mehul Sura

On February 5, 2016, the Office of Air Quality (OAQ) received an application from A. Raymond Tinnerman Manufacturing, Inc. related to a modification to an existing stationary metal stamping source.

Existing Approvals

The source was issued FESOP Renewal No. F017- 24109-00027on May 18, 2007. The source has since received the following approvals:

(a) Administrative Amendment No. 017-25554-00027, issued on January 1, 2008,

(b) Administrative Amendment No. 017-28629-00027, issued on November 18, 2009, and

(c) Administrative Amendment No. 017-34679-00027, issued on August 29, 2014.

County Attainment Status

The source is located in Cass County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.[1]
$PM_{2.5}$	Unclassifiable or attainment effective April 5, 2005, for the annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

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

(b) $PM_{2.5}$
Cass County has been classified as attainment for $PM_{2.5}$. Therefore, direct $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

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

This PTE table is from the TSD of AA No. 017-34679-00027, issued on August 29, 2014.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5**	SO_2	NOx	VOC	CO	GHGs as CO_2e***	Total HAPs	Worst Single HAP
Surface Coating Operations	0.00	0.00	0.00	0.00	0.00	<29.80	0.00	0.00	<25	<10
Wheelabrators	5.07	5.07	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grinding Operations	0.71	0.49	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc Electroplating Operations	0.48	0.48	0.48	0.00	0.00	0.16	0.00	0.00	0.163	0.163 (HCL)
Natural Gas Boiler	0.079	0.318	0.318	0.03	4.18	0.23	3.51	5,045.68	0.079	0.079 (Hexane)
Heat Treat Furnace (#1)	0.06	0.23	0.23	0.02	3.09	0.17	2.60	3,732.17	0.058	0.056 (Hexane)
Heat Treat Furnace (#2)	0.01	0.06	0.06	0.00	0.78	0.04	0.65	938.22	0.015	0.014 (Hexane)
Emergency Generator (E-1)	0.00	0.00	0.00	0.00	0.03	0.00	0.02	4.79	0.003	0.002 (Formaldehyde)
Welding Operations	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.02	0.02 (Manganese)
Burn-Off Oven (BO-1)	0.014	0.014	0.014	0.001	0.184	0.010	0.155	0.00	0.0035	0.0033 (Hexane)
Emergency Generators (E-2, E-3)	0.000	0.003	0.003	0.00	0.258	0.036	0.170	41.54	0.0217	0.0161 (Formaldehyde)
Mechanical Spin Drying Oven	0.001	0.006	0.006	0.00	0.077	0.004	0.065	0.00	0.00	0.00
Cold Solvent Cleaning Tank	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
Total PTE of Entire Source	**6.88**	**7.87**	**7.87**	**0.13**	**21.51**	**<100**	**17.86**	**25,375.68**	**<25**	**<10**
Title V Major Source Thresholds	-	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000	NA	NA

* Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".
**$PM_{2.5}$ listed is direct $PM_{2.5}$.
***The 100,000 CO_2e 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) This existing source is not a major stationary source under PSD (326 IAC 2-2), because no PSD regulated pollutant, excluding GHGs, is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories as specified in 326 IAC 2-2-1(ff)(1).

(b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the Permittee has accepted limits on HAPs emissions to less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO_2 equivalent (CO_2e) emissions per year.

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by A. Raymond Tinnerman Manufacturing, Inc. on February 5, 2016. A. Raymond Tinnerman Manufacturing, Inc. has requested IDEM to describe the existing Lines No. 1 and No. 2 (specified under EU-1 in the permit) as separate coating lines. Currently these coating operations are described as a single coating line in the permit.

The existing permit specifies the Lines No. 1 and No. 2 as a single coating line. There is a combined VOC input limit in the permit for these two coating lines which restricts the total VOC input to these two coating lines to less than 25 tons per year, to render the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating) and 326 IAC 8-1-6 (BACT) not applicable. The source has requested that these two coating

lines be identified as 2 separate coating lines and therefore, 25 tons per year VOC input limit be applied separately to these two coating lines.

The source has provided following explanation on why these two coating lines should be considered as separate coating lines:

The Lines No. 1 and No. 2 currently exist as they originally constructed 1989. These coating lines function independently of one-another to coat various types of metal fasteners with durable and corrosion resistant coatings. In each coating line, small parts are added at the front end of each line, loaded into dip-spin baskets, transferred to the dip spin unit (where the parts are dipped in coating and then spun to remove excess coating), dumped onto a conveyor belt that propels the parts through the drying process, cooled by contact with ambient air, and off-loaded and packaged as coated parts. The lines travel through one or the other of the lines and one or both lines can operate at any given time, irrespective of the status of the other line. The parts can use the same coating or different coating depending on customer needs. The lines can run the same parts or different parts depending on plant production schedule.

From the above explanation, IDEM has determined that since the Lines No. 1 and No. 2 function independently of one-another, the Lines No. 1 and No. 2 should be considered as two separate coating lines.

Following is the revised description of the Lines No. 1 and No. 2:

(a) One (1) metal part surface coating operation, identified as EU-1, consisting of two (2) independent dip coating lines as follows:

(i) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 1, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S1A-D.

(ii) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 2, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S2A-D.

There are no new emissions units involved in this revision.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP Revision

The following table reflects the potential to emit (PTE) of the modified emission unit before controls. The modified emission unit is metal part surface coating operation (EU-1), consisting of two (2) dip coating lines No. 1 and No. 2. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. For details of these PTE, please refer TSD Appendix A of this TSD.

Pollutant	PTE Before Modification (ton/yr)	PTE After Modification (ton/yr)	Increase from Modification (ton/yr)
PM	0	0	0
PM10	0	0	0
PM2.5	0	0	0
SO2	0	0	0
NOx	0	0	0
VOC	25 (1)	50 (2)	25
CO	0	0	0
single HAP	<10	<10	0
combined HAPs	<25	<25	0

(1) PTE is based on the existing VOC input limit in the permit (Condition D.1.1).

(2) PTE is based on the revised VOC input limits for the two (2) dip coating lines No. 1 and No. 2. Please refer 326 IAC 8-2-9 and 326 IAC 8-1-6 applicability determinations in 'State Rule Applicability Determination' section of this TSD.

Pursuant to 326 IAC 2-8-11.1(f), this FESOP is being revised through a FESOP significant permit revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves:

(i) Removing the FESOP limit for VOC (for details, please refer FESOP Status under PTE of the Entire Source After Issuance of the FESOP Revision' section of this TSD).

(ii) Revising VOC input limit for the two (2) dip coating lines No. 1 and No. 2 (for details, please refer 326 IAC 8-2-9 and 326 IAC 8-1-6 applicability determinations in 'State Rule Applicability Determination' section of this TSD).

PTE of the Entire Source After Issuance of the FESOP Revision

The table below summarizes the potential to emit of the entire source (reflecting adjustment of existing limits), with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of the FESOP Revision (tons/year)									
	PM	PM10* (1)	PM2.5 **(2)	SO_2	NOx	VOC	CO	~~GHGs as CO_2e***~~	Total HAPs	Worst Single HAP
~~Surface Coating Operations~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~<29.80~~	~~0.00~~	~~0.00~~	~~<25~~	~~<10~~
Dip Spin Coating Line No. 1	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**<25.0 (3)**	**0.00**	**-**	**< 23(4)**	**<10(4) (Glycol Ether)**
Dip Spin Coating Line No. 2	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**<25.0 (3)**	**0.00**	**-**		
Wheelabrators	5.07	5.07	5.07	0.00	0.00	0.00	0.00	~~0.00~~	0.00	0.00
Grinding Operations	0.71	0.49	0.49	0.00	0.00	0.00	0.00	~~0.00~~	0.00	0.00
Zinc Electroplating Operations	0.48	0.48	0.48	0.00	0.00	0.16	0.00	~~0.00~~	0.163	0.163 (HCL)
Natural Gas Boiler	0.079	0.318	0.318	0.03	4.18	0.23	3.51	~~5,045.68~~	0.079	0.079 (Hexane)
Heat Treat Furnace (#1)	0.06	0.23	0.23	0.02	3.09	0.17	2.60	~~3,732.17~~	0.058	0.056 (Hexane)
Heat Treat Furnace (#2)	0.01	0.06	0.06	0.00	0.78	0.04	0.65	~~938.22~~	0.015	0.014 (Hexane)
Emergency Generator (E-1)	0.00	0.00	0.00	0.00	0.03	0.00	0.02	~~4.79~~	0.003	0.002 (Formaldehyde)
Welding Operations	0.22	0.22	0.22	0.00	0.00	0.00	0.00	~~0.00~~	0.02	0.02 (Manganese)
Burn-Off Oven (BO-1)	0.014	0.014	0.014	0.001	0.184	0.010	0.155	~~0.00~~	0.0035	0.0033 (Hexane)
Emergency Generators (E-2, E-3)	0.000	0.003	0.003	0.00	0.258	0.036	0.170	~~41.54~~	0.0217	0.0161 (Formaldehyde)
Mechanical Spin Drying Oven	0.001	0.006	0.006	0.00	0.077	0.004	0.065	~~0.00~~	0.00	0.00
Cold Solvent Cleaning Tank	0.00	0.00	0.00	0.00	0.00	0.08	0.00	~~0.00~~	0.00	0.00
Total PTE of Entire Source	**6.88**	**7.87**	**7.87**	**0.13**	**21.51**	**~~<100~~ 55.10**	**17.86**	**~~25,375.68~~**	**~~<25~~ 23.6**	**<10**
Title V Major Source Thresholds	-	100	100	100	100	100	100	~~100,000~~	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	~~100,000~~	NA	NA

*(1) Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".

**(2) $PM_{2.5}$ listed is direct $PM_{2.5}$.

~~*** The 100,000 CO_2e 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.~~

(3) PTE is based on the VOC input limits to render the requirements of 326 IAC 8-2-9 and 326 IAC 8-1-6 not applicable (for details, please refer 'State Rule Applicability Determination' section of this TSD).

(4) PTE is based on the existing FESOP limits for the single HAP and combined HAPs.

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

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of the FESOP Revision (tons/year)								
	PM	PM10 (1)	PM2.5 (2)	SO_2	NOx	VOC	CO	Total HAPs	Worst Single HAP
Dip Spin Coating Line No. 1	0.00	0.00	0.00	0.00	0.00	<25.0 (3)	0.00	<23(4)	<10(4) (Glycol Ether)
Dip Spin Coating Line No. 2	0.00	0.00	0.00	0.00	0.00	<25.0 (3)	0.00		
Wheelabrators	5.07	5.07	5.07	0.00	0.00	0.00	0.00	0.00	0.00
Grinding Operations	0.71	0.49	0.49	0.00	0.00	0.00	0.00	0.00	0.00
Zinc Electroplating Operations	0.48	0.48	0.48	0.00	0.00	0.16	0.00	0.163	0.163 (HCL)
Natural Gas Boiler	0.079	0.318	0.318	0.03	4.18	0.23	3.51	0.079	0.079 (Hexane)
Heat Treat Furnace (#1)	0.06	0.23	0.23	0.02	3.09	0.17	2.60	0.058	0.056 (Hexane)
Heat Treat Furnace (#2)	0.01	0.06	0.06	0.00	0.78	0.04	0.65	0.015	0.014 (Hexane)
Emergency Generator (E-1)	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.003	0.002 (Formaldehyde)
Welding Operations	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.02	0.02 (Manganese)
Burn-Off Oven (BO-1)	0.014	0.014	0.014	0.001	0.184	0.010	0.155	0.0035	0.0033 (Hexane)
Emergency Generators (E-2, E-3)	0.000	0.003	0.003	0.00	0.258	0.036	0.170	0.0217	0.0161 (Formaldehyde)
Mechanical Spin Drying Oven	0.001	0.006	0.006	0.00	0.077	0.004	0.065	0.00	0.00
Cold Solvent Cleaning Tank	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
Total PTE of Entire Source	**6.88**	**7.87**	**7.87**	**0.13**	**21.51**	**55.10**	**17.86**	**23.6**	**<10**
Title V Major Source Thresholds	-	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA

(1) Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".

(2) $PM_{2.5}$ listed is direct $PM_{2.5}$.

(3) PTE is based on the VOC input limits to render the requirements of 326 IAC 8-2-9 and 326 IAC 8-1-6 not applicable (for details, please refer 'State Rule Applicability Determination' section of this TSD).

(4) PTE is based on the existing FESOP limits for the single HAP and combined HAPs.

(a) FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants, HAPs and CO2e from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

The dip-spin coating line No. 3 and vinyl dip coating (EU-7b) were removed through AA No. 017-34679-00027, issued on August 29, 2014. The source-wide emission calculations were not updated when this AA was issued. The source-wide emission calculations have been updated now. Based on this updated calculations, the source-wide uncontrolled VOC emissions are less than 100 tons per year (please refer Appendix A of this TSD for the details of the emission calculations). Since the source-wide uncontrolled VOC emissions are now less than 100 tons per year, the existing VOC input limit for the metal part surface coating operation (EU-1) specified under FESOP to restrict source-wide VOC emissions less than 100 tons per year will be removed through this FESOP revision.

(b) GHGs

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States

Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

There are no NSPS (40 CFR Part 60) and 326 IAC 12 included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

(a) Subpart XXXXXX — National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories

One of the SIC codes of the source is 3499. The source NAICS code is 332722 (Bolt, Nut Screw and Rivet manufacturing).

Although the SIC code 3499 is listed under this NESHAP, the source with SIC code 3499 in combination with NAICS code 332722 is not subject to the requirements of this NESHAP based on the following EPA document:

EPA November 2011 Questions & Answers document related to applicability determination of the 40 CFR Part 63 Subpart XXXXXX (Nine Metal Fabrication and Finishing Area Source Categories) http://www.epa.gov/ttn/atw/area/arearules.html#imp.

As a result this source is not subject to the requirements of this NESHAP. This NESHAP applicability evaluation was not made previously. Therefore, this evaluation has been made through this proposed revision.

(b) There are no NESHAP (40 CFR Part 63), 326 IAC 14 and 326 IAC 20 included for this proposed revision.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

(a) 326 IAC 2-8-4 (FESOP)
This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the

provisions of 326 IAC 2-8 (FESOP). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

(b) 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

(c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The source will continue comply with the existing HAPs limits in the permit which resriucts the total single HAP and combination of HAPs input to the surface coating operation (EU-1), consisting of two (2) dip coating lines No. 1 and No. 2, to less than 10 and 25 tons per year, respectively.

Compliance with this limits, in combination with the potential HAPs emissions from all other emission units will limit the combined HAPs emissions from the source to less than 25 tons per year and will render 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.

(d) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.

(e) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

(f) 326 IAC 8-2-9 (Miscellaneous Metal Coating) and 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The uncontrolled VOC emissions from each of the Lines No. 1 and No. 2 are more than 25 tons per year. As discussed in the 'Description of Proposed Revision' section of this TSD, the Lines No. 1 and No. 2 were determined as single facility when these coating lines were originally permitted. Therefore, the permit specified combined 25 tons per year VOC input limit for the Lines No. 1 and No. 2 to render the requirements of 326 IAC 8-2-9 and 326 IAC 8-1-6 not applicable to these lines. Since these lines are now considered 2 separate coating lines, the 25 tons per year VOC input limit will be now specified for each of the Lines No. 1 and No. 2. The revised VOC input limits are as follows:

The VOC input (including coatings, dilution solvents, and cleaning solvents) to each of the Lines No. 1 and No. 2 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, shall limit the potential to emit of VOC from each of the Lines No. 1 and No. 2 to less than 25 tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating) and 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities) not applicable to the Lines No. 1 and No. 2.

Compliance Determination and Monitoring Requirements

The existing compliance Determination and Monitoring requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No: F017- 24109-00027, issued on May 18, 2007.

Proposed Changes

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

(a) The proposed revision has been included in the permit.

(b) The description of EU-10 was revised through AA No. 017-34679-00027, issued on August 29, 2014. The revision was incorporated throughout the permit but inadvertently omitted from Section D.1 of the permit. The description of EU-10 is now revised in Section D.1.

(c) IDEM added the rule citation 326 IAC 2-8-4(1) to the following subsection titles to clarify the authority of these conditions:

(i) Compliance Determination and Record Keeping and Reporting Requirements subsection titles in Sections D.1, D.2 and D.3, and

(ii) NSPS and NESHAP Requirements subsection titles in Sections E.1, E.2 and E.3

(d) The rule citation has been added Section B - Enforceability.

(e) Instructions for the original Section B – Annual Compliance Certification (ACC) have been revised.

(f) IDEM, OAQ has decided to clarify Section B - Preventive Maintenance Plan.

(g) IDEM, OAQ has decided to clarify what rule requirements a certification needs to meet. The following conditions are revised due to this change:

(i) Section B - Annual Compliance Certification
(ii) Section B - Permit Modification, Reopening, Revocation and Reissuance, or Termination
(iii) Section B - Permit Renewal
(iv) Section C - Asbestos Abatement Projects
(v) Section C - Performance Testing
(vi) Section C - Actions Related to Noncompliance Demonstrated by a Stack Test

(h) Section C – Overall Source Limit has been revised for clarity purpose.

(i) IDEM is changing the Section C - Compliance Monitoring Condition to clearly describe when new monitoring for new and existing units must begin.

(j) IDEM clarified the following condition to indicate that the analog instrument must be capable of measuring the parameters outside the normal range.

(k) Section C – Response to Excursions or Exceedances has been revised for clarity purpose.

(l) IDEM has changed the language of the PMP, Compliance monitoring, General Record Keeping, and General Reporting conditions to allow the Permittee to not have to begin implementing the requirements of these conditions until ninety day after initial startup.

(m) FESOP Quarterly Report Form has been updated. Reference to the month numbers have been removed.

(n) 326 IAC 2-8-12 states that the Permittee must notify IDEM within "four (4) daytime business hours" for emergencies. The FESOP Emergency Occurrence Report Form lacked the word

'daytime'. 'Daytime' is being added to be consistent with the rule. In addition, the existing rule cite is being corrected to refer to the FESOP rules.

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in ~~Conditions~~**conditions** A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

. . .

County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD **and Emission Offset Rules** Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) ~~One (1) metal part surface coating operation, identified as EU-1, consisting of two (2) metal part dip spin surface coating lines, identified as Lines No.1 and No. 2, and associated cleaning operations, using two (2) dip tanks, each coating a maximum of 6000 pounds of metal parts per hour, each exhausting through one (1) stack, identified as S1A-D and S2A-D. Line No. 1 and Line No. 2 were constructed in 1989.~~
One (1) metal part surface coating operation, identified as EU-1, consisting of two (2) independent dip coating lines as follows:

(i) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 1, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S1A-D.

(ii) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 2, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S2A-D.

. . .

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) ~~to renew~~**for** a Federally Enforceable State Operating Permit (FESOP).

. . .

B.4 Enforceability [326 IAC 2-8-6] **[IC 13-17-12]**

. . .

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

(~~i~~**1**) it contains a certification by an **"**authorized individual", as defined by 326 IAC 2-1.1-1(1), and

(~~ii~~**2**) the certification ~~is~~**states that,** based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, **or its equivalent** with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) . . .

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. ~~All~~**The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent** certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than ~~April 15~~**July 1** of each year to:

. . .

(b) . . .

(c) The annual compliance certification report shall include the following:

. . .

The submittal by the Permittee does require ~~the~~**a** certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

~~(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:~~

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

(1) . . .

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

~~(1) Identification of the individuals(s) responsible for inspecting, maintaining, and repairing emission control devices;~~

~~(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and~~

~~(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.~~

. . .

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

. . .

The Permittee shall implement the PMPs.

(~~c~~**b**) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions**. The** PMPs and their submittal do not require a certification that meets the requirements of **326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by** 326 IAC 2-1.1-1(1).

(~~d~~**c**) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

(a) . . .

(b) . . .

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ ~~,~~ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 **(ask for Office of Air Quality,** ~~(ask for~~ Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

(5) . . .

The notification which shall be submitted by the Permittee does not require ~~the~~**a** certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

. . .

. . .

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require ~~the~~**a** certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

. . .

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(~~40~~**42**). The renewal application does require ~~the~~**a** certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and ~~Development~~**Support** Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

. . .

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) . . .

(b) . . .

Indiana Department of Environmental Management
Permit Administration and ~~Development~~**Support** Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

. . .

(c) . . .

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) and **(c)** without a prior permit revision, if each of the following conditions is met:

. . .

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and ~~Development~~**Support** Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

. . .

(5) . . .

. . .

(c) Alternative Operating Scenarios [326 IAC 2-8-15(~~d~~**c**)]

. . .

. . .

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

. . .

(b) . . .

Indiana Department of Environmental Management
Permit Administration and ~~Development~~**Support** Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

. . .

. . .

C.2 Overall Source Limit [326 IAC 2-8]

. . .

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

. . .

(b) ~~The~~**Pursuant to 326 IAC 2-2 (PSD),** potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. ~~This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.~~

. . .

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

. . .

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

. . .

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

. . .

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

. . .

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(~~a~~**b**) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require **a** certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(~~b~~**c**) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ~~,~~ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

. . .

Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If**,** due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days, after permit issuance ~~or~~**,** the ~~date of initial startup, whichever is later. The~~ Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

. . .

~~Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.~~

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. **The analog instrument shall be capable of measuring values outside of the normal range.**

. . .

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

(a) ~~the~~**The** Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

. . .

(e) The Permittee shall **record** the reasonable ~~responses~~**response steps** taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its ~~espons~~**response** actions to IDEM, OAQ~~,~~ no later than seventy-five (75) days after the date of the test.

. . .

The response action documents submitted pursuant to this condition do require ~~the~~**a** certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following~~:~~**, where applicable:**

. . .

Records of required monitoring information include the following**, where applicable**:

. . .

(FF) The operating conditions as existing at the time of ~~the~~ sampling or measurement.

. . .

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to ~~being~~**begin** such record keeping.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted ~~no~~**not** later than thirty (30) days ~~of~~**after** the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or **a** failure to comply with a requirement of the permit.

(b) The address for report submittal is:

. . .

(c) . . .

(d) **The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period.** Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit**,** "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

. . .

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description [326 IAC 2-8-4(10)]:

(a) ~~One (1) metal part surface coating operation, identified as EU-1, consisting of three (3) metal part dip spin surface coating lines, identified as Lines No. 1, No. 2, and No. 3, and cleaning operations, using three (3) dip tanks, each coating a maximum of 6000 pounds of metal parts per hour, each exhausting through one (1) stack, identified as S1A-D, S2A-D, and S3A-D. Line No. 1 and Line No. 2 were constructed in 1989 and Line No. 3 was constructed in 1985.~~
One (1) metal part surface coating operation, identified as EU-1, consisting of two (2) independent dip coating lines as follows:

(i) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 1, constructed in 1989, using one (1) dip tank, coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S1A-D.

(ii) one (1) metal part dip spin surface coating line and associated cleaning operations, identified as Line No. 2, constructed in 1989, using one (1) dip tank,

coating a maximum of 6000 pounds of metal parts per hour and exhausting through stack, identified as S2A-D.

(c) One (1) metal part dip spin surface coating line, approved for construction in 2008, **as a dip spin coating line**~~with a maximum capacity of 1.0 gallons of coating per hour~~, identified as EU-10, **converted to a Hydrogen Relive Oven in 2011**~~and consisting of the following~~:

. . .

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

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

D.1.1 VOC ~~and HAP~~ Limits ~~[326 IAC 2-8] [326 IAC 2-4.1] [326 IAC 2-2]~~ [326 IAC 8-2-9] [326 IAC 8-1-6]

~~(a) The total combined VOC input to the metal part surface coating operation (EU-1), including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

~~Compliance with this limit, in combination with the potential emissions from insignificant activities, will keep the total VOC emissions from the source to less than 100 tons per year and will render 326 IAC 2-7 (Part 70), 326 IAC 8-2-9 (Miscellaneous Metal Coating), 326 IAC 8-1-6 (BACT) and 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the facility.~~

~~(b) The total combined input of any single HAP to the metal part surface coating operation (EU-1), including coatings, dilution solvents, and cleaning solvents, together with the potential emissions from insignificant activities, shall be limited to less than 10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

~~Compliance with this limit renders 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.~~

~~(c) The total input of combined HAPs to the metal part surface coating operation (EU-1), including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 23 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

~~Compliance with this limit, in combination with the potential emissions from insignificant activities, will keep the total combined HAP emissions from the source to less than 25 tons per year and will render 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.~~

In order to render 326 IAC 8-1-6 and 326 IAC 8-2-9 not applicable, the Permittee shall comply with the following:

(a) The VOC input, including coatings, dilution solvents, and cleaning solvents, to Line No. 1 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The VOC input, including coatings, dilution solvents, and cleaning solvents, to Line No. 2 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits will limit the VOC emissions from each of Lines No. 1 and No. 2 to less than 25 tons per year and will render 326 IAC 8-2-9 (Miscellaneous Metal Coating) and 326 IAC 8-1-6 (BACT) not applicable to these facilities.

D.1.2 ~~Reserved~~ **HAP Limits [326 IAC 2-8] [326 IAC 2-4.1]**

(a) The total combined input of any single HAP to Lines No. 1 and No. 2, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit renders 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.

(b) The total input of combined HAPs to Lines No. 1 and No. 2, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 23 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit, in combination with the potential HAPs emissions from all other emission units will limit the combined HAPs emissions from the source to less than 25 tons per year and will render 326 IAC 2-7 (Part 70) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) not applicable to the source.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for the **Lines No. 1 and No. 2**~~metal part surface coating operation, identified as EU-1~~. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements **[326 IAC 2-8-4(1)]**

D.1.4 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC and HAP usage limitations contained in Condition**s** D.1.1 **and D.1.2** shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC and HAP data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.5 Record Keeping Requirements

(a) To document the compliance status with Condition**s** D.1.1 **and D.1.2**, the Permittee shall maintain records in accordance with (1) through (4) below **for each of Lines No. 1 and No. 2**. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

. . .

D.1.6 Reporting Requirements

If the Permittee is a member of IDEM's Environmental Stewardship Program (ESP) program, the Permittee may submit reports summarizing the information to document compliance with Condition D.1.1 according to the provisions of paragraph (~~f~~**e**) of Section C - General Reporting

Requirements.

. . .

SECTION D.2 FACILITY OPERATION CONDITIONS

. . .

Compliance Determination Requirements **[326 IAC 2-8-4(1)]**

. . .

SECTION D.3 FACILITY OPERATION CONDITIONS

. . .

Compliance Determination Requirements **[326 IAC 2-8-4(1)]**

. . .

Record Keeping and Reporting Requirements ~~**[326 IAC 2-7-5(3)] [326 IAC 2-7-19]**~~ **[326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

. . .

SECTION E.1 OPERATION CONDITIONS

. . .

New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ] [326 IAC 2-8-4(1)]

. . .

E.1.2 New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60, Subpart JJJJ][326 IAC 12]

The Permittee, who owns or operates a stationary spark ignition internal combustion engine, shall comply with the following provisions of 40 CFR Part 60, Subpart JJJJ **(included as Attachment A to the operating permit),** which are incorporated by reference as 326 IAC 12:

. . .

~~The full text of Subpart JJJJ may be found as Attachment A to this permit.~~

SECTION E.2 OPERATION CONDITIONS

. . .

National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] **[326 IAC 2-8-4(1)]**

E.~~1~~**2**.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-1] [40 CFR Part 63, Subpart A]

. . .

E.2.~~1~~**2** National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee, which owns or operates a stationary Reciprocating Internal Combustion Engine, shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ **(included as Attachment B to the operating permit)**, which are incorporated by reference as 326 IAC 20]:

. . .

~~The full text of Subpart ZZZZ may be found as Attachment B to this permit.~~

SECTION E.3 OPERATION CONDITIONS

. . .

National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWWW] **[326 IAC 2-8-4(1)]**

. . .

E.3.~~1~~**2** National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations [40 CFR 63, Subpart WWWWW] [IAC 12]

The Permittee, which owns or operates a zinc plating operation, shall comply with the following provisions of 40 CFR Part 63, Subpart WWWWWW **(included as Attachment C to the operating permit)**, which are incorporated by reference as 326 IAC 20:

. . .

~~The full text of Subpart WWWWWW may be found as Attachment C to this permit.~~

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

. . .

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

. . .

This form consists of 2 pages Page 1 of 2

□ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) **daytime** business hours (1-800-451-6027 or 317-233-0178, ask for Compliance and Enforcement Branch); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 ~~IAC 2-7-16~~**2-8-12**

. . .

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch

FESOP ESP Semi Annual Report

Source Name: A. Raymond Tinnerman Manufacturing, Inc.
Source Address: 800 West County Road 250 South, Logansport, IN 46947
FESOP Permit No.: F017-24109-00027
Facility: Metal parts surface coating operation (EU-1) consisting of ~~three (3)~~**two (2) dip spin lines No. 1 and No. 2**

Parameter: Single HAP usage
Limit ~~a~~: The total combined input of any single HAP to the ~~three (3)~~**two (2)** dip spin coating lines **No. 1 and No. 2**, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 10 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Parameter: Total HAP usage
Limit ~~b~~: The total input of combined HAPs to the ~~three (3)~~**two (2)** dip spin coating lines **No. 1 and No. 2**, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 23 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

~~Parameter: VOC usage~~
~~Limit c: The total combined VOC input to the three (3)dip spin coating lines, including coatings, dilution solvents, and cleaning solvents, shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

YEAR:_____

Month	Column 1a	Column 1b	~~Column 1c~~	Column 2a	Column 2b	~~Column 2c~~	Column 1a + 2a	Column 1b + 2b	~~Column 1c + 2c~~
	Single HAP Usage This Month	Total HAP Usage This Month	~~VOC Usage This Month~~	Single HAP Usage Previous 11 Months	Total HAP Usage Previous 11 Months	~~VOC Usage Previous 11 Months~~	Single HAP Usage 12 Month Total	Total HAP Usage 12 Month Total	~~VOC Usage 12 Month Total~~
Month 1									

Month 2									
Month 3									
Month 4									
Month 5									
Month 6									

☐ No deviation occurred in this period. ☐ Deviation/s occurred in this period.

Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance and Enforcement Branch

FESOP ESP Semi Annual Report

Source Name: **A. Raymond Tinnerman Manufacturing, Inc.**
Source Address: **800 West County Road 250 South, Logansport, IN 46947**
FESOP Permit No.: **F017-24109-00027**
Facility: **two (2) dip spin lines (No. 1 and No. 2)**
Parameter: **VOC input**
Limit c: **The VOC input (including coatings, dilution solvents, and cleaning solvents) at each of the dip spin coating lines No. 1 and No. 2 shall be limited to less than 25 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.**

YEAR:_____

Month	dip spin coating line	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12 Month Total
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			
	No. 1			
	No. 2			

☐ **No deviation occurred in this period.** ☐ **Deviation/s occurred in this period.**

Deviation has been reported on:_____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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 February 5, 2016.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 017-36809-00027. The staff recommends to the Commissioner that this FESOP Significant Permit Revision be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Mehul Sura at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-6868 or toll free at 1-800-451-6027 extension 3-6868.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: http://www.in.gov/idem/5881.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

Appendix A: Emission Calculations
Emissions Summary

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Potential Emissions Summary in tons per year

Uncontrolled Potential to Emit (tons/year)											
Process	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NOx**	**VOC**	**CO**	**GHGs as CO2e**	**Total HAPs**	**Single HAP**	HAP
Dip Spin Coating Line No. 1	0.00	0.00	0.00	0.00	0.00	36.87	0.00	0.00	22.178	21.621	Glycol Ether
Dip Spin Coating Line No. 2	0.00	0.00	0.00	0.00	0.00	36.87	0.00	0.00	22.178	21.621	Glycol Ether
Corrosion Inhibitor Dip Tank	0.00	0.00	0.00	0.00	0.00	3.67	0.00	0.00	0.00	0.00	
Wheelabrators	506.83	506.83	506.83	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
Grinding Operations	35.35	24.75	24.75	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
Zinc Electroplating Operations	30.78	30.78	30.78	0.00	0.00	0.16	0.00	0.00	0.163	0.163	HCL
Natural Gas Boiler	0.079	0.318	0.318	0.03	4.18	0.23	3.51	5,045.68	0.079	0.079	Hexane
Natural Gas Combustion	0.25	0.98	0.98	0.08	12.94	0.71	10.87	15,618.07	0.244	0.233	Hexane
Heat Treat Furnace #1	0.06	0.23	0.23	0.02	3.09	0.17	2.60	3,732.17	0.058	0.0557	Hexane
Heat Treat Furnace #2	0.01	0.06	0.06	0.00	0.78	0.04	0.65	938.22	0.015	0.0140	Hexane
Emergency Generator (Main Plant)	0.00	0.00	0.00	0.00	0.03	0.00	0.02	4.79	0.003	0.002	Formaldehyde
Welding Operations	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.020	0.020	Manganese
Burn Off Oven (BO-1)	0.01	0.01	0.01	0.00	0.18	0.01	0.15	0.00	0.0035	0.0033	Hexane
Emergency Generators (E-2, E-3)	0.0000	0.0027	0.0027	0.0002	0.2284	0.0318	0.1502	36.7432	0.0192	0.0142	Formaldehyde
Mechanical Spin Drying Oven	0.00	0.01	0.01	0.00	0.08	0.00	0.06	0.00	0.00000	0.00000	
Cold Solvent Cleaning Tank	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00000	0.00000	
Total	**573.60**	**564.20**	**564.20**	**0.13**	**21.51**	**78.86**	**18.02**	**25,375.68**	**44.96**	**0.000**	**Lead**

Controlled/Limited Potential to Emit (tons/year)											
Process	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NOx**	**VOC**	**CO**	**GHGs as CO2e**	**Total HAPs**	**Single HAP**	
Dip Spin Coating Line No. 1	0.00	0.00	0.00	0.00	0.00	<25.0	0.00	0.00	<23.0	<10.0	Glycol Ether
Dip Spin Coating Line No. 2	0.00	0.00	0.00	0.00	0.00	<25.0	0.00	0.00			
Corrosion Inhibitor Dip Tank	0.00	0.00	0.00	0.00	0.00	3.67	0.00	0.00	0.000	0.000	
Wheelabrators	5.07	5.07	5.07	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
Grinding Operations	0.71	0.49	0.49	0.00	0.00	0.00	0.00	0.00	0.000	0.000	
Zinc Electroplating Operations	0.48	0.48	0.48	0.00	0.00	0.16	0.00	0.00	0.163	0.163	HCL
Natural Gas Boiler	0.079	0.318	0.318	0.03	4.18	0.23	3.51	5,045.68	0.079	0.079	Hexane
Natural Gas Combustion	0.25	0.98	0.98	0.08	12.94	0.71	10.87	15,618.07	0.244	0.233	Hexane
Heat Treat Furnace #1	0.06	0.23	0.23	0.02	3.09	0.17	2.60	3,732.17	0.058	0.0557	Hexane
Heat Treat Furnace #2	0.01	0.06	0.06	0.00	0.78	0.04	0.65	938.22	0.015	0.0140	Hexane
Emergency Generator (Main Plant)	0.00	0.00	0.00	0.00	0.03	0.00	0.02	4.79	0.003	0.002	Formaldehyde
Welding Operations	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.020	0.020	Manganese
Burn Off Oven	0.00	0.00	0.00	0.00	0.18	0.00	0.00000	0.00	0.0035	0.0033	Hexane
Emergency Generators (E-2, E-3)	0.00	0.00	0.00	0.00	0.23	0.03	0.15021	36.74	0.0192	0.0142	Formaldehyde
Mechanical Spin Drying Oven	0.00	0.01	0.01	0.00	0.08	0.00	0.06	0.00	0.00000	0.00000	
Cold Solvent Cleaning Tank	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00000	0.00000	
Total	**6.88**	**7.87**	**7.87**	**0.13**	**21.51**	**55.10**	**17.86**	**25375.68**	**23.60**	<10.0	**Glycol Ether**

Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC (tons/yr)	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Dip Tank																
Corrosion Inhibitor Dip Tank	6.7	80.00%	0.0%	80.0%	0.0%	20.00%	0.00009	1666.000	5.36	5.36	0.84	20.09	3.67	0.00	0.00	100%
Dip Spin Coating Line No. 1																
Magni B06J	12.6	40.00%	0.0%	40.0%	0.0%	0.00%	0.00160	600.000	5.04	5.04	4.84	116.12	21.19	0.00	0.00	100%
Magni B17	9.4	54.00%	0.0%	54.0%	0.0%	0.00%	0.00160	600.000	5.08	5.08	4.88	117.08	21.37	0.00	0.00	100%
Magni P04A	8.9	75.50%	0.0%	75.5%	0.0%	0.00%	0.00160	600.000	6.74	6.74	6.47	155.34	28.35	0.00	0.00	100%
Dacromet 320	11.3	63.30%	57.4%	5.9%	0.0%	0.00%	0.00160	600.000	0.67	0.67	0.64	15.36	2.80	0.00	0.00	100%
Dacromet 107	9.3	70.60%	65.7%	4.9%	0.0%	0.00%	0.00160	600.000	0.45	0.45	0.44	10.44	1.91	0.00	0.00	100%
5250/571 Blue	8.9	53.80%	0.0%	53.8%	0.0%	0.00%	0.00160	600.000	4.77	4.77	4.58	109.95	20.07	0.00	0.00	100%
5251/840 Black	9.6	48.50%	0.0%	48.5%	0.0%	0.00%	0.00160	600.000	4.66	4.66	4.47	107.27	19.58	0.00	0.00	100%
5901 Gray/Silver	9.1	72.70%	0.0%	72.7%	0.0%	0.00%	0.00160	600.000	6.64	6.64	6.37	152.93	27.91	0.00	0.00	100%
5901 Bright Silver	9.1	51.00%	0.0%	51.0%	0.0%	0.00%	0.00160	600.000	4.62	4.62	4.44	106.46	19.43	0.00	0.00	100%
Aromatic 150 (Thinners/Cleaning Solvents)	7.5	100.00%	0.0%	100.0%	0.0%	0.00%	0.00040	600.000	7.46	7.46	1.79	42.97	7.84	0.00	0.00	100%
S-232 (Thinners/Cleaning Solvents)	7.1	100.00%	50.0%	50.0%	0.0%	0.00%	0.00040	600.000	3.53	3.53	0.85	20.33	3.71	0.00	0.00	100%
PM Acetate (Thinners/Cleaning Solvents)	8.1	100.00%	0.0%	100.0%	0.0%	0.00%	0.00040	600.000	8.11	8.11	1.95	46.71	8.53	0.00	0.00	100%
Magni 777 (Thinners/Cleaning Solvents)	6.7	100.00%	0.0%	100.0%	0.0%	0.00%	0.00040	600.000	6.67	6.67	1.60	38.42	7.01	0.00	0.00	100%
													36.87			
Dip Spin Coating Line 2																
Magni B06J	12.6	40.00%	0.0%	40.0%	0.0%	0.00%	0.00160	600.000	5.04	5.04	4.84	116.12	21.19	0.00	0.00	100%
Magni B17	9.4	54.00%	0.0%	54.0%	0.0%	0.00%	0.00160	600.000	5.08	5.08	4.88	117.08	21.37	0.00	0.00	100%
Magni P04A	8.9	75.50%	0.0%	75.5%	0.0%	0.00%	0.00160	600.000	6.74	6.74	6.47	155.34	28.35	0.00	0.00	100%
Dacromet 320	11.3	63.30%	57.4%	5.9%	0.0%	0.00%	0.00160	600.000	0.67	0.67	0.64	15.36	2.80	0.00	0.00	100%
Dacromet 107	9.3	70.60%	65.7%	4.9%	0.0%	0.00%	0.00160	600.000	0.45	0.45	0.44	10.44	1.91	0.00	0.00	100%
5250/571 Blue	8.9	53.80%	0.0%	53.8%	0.0%	0.00%	0.00160	600.000	4.77	4.77	4.58	109.95	20.07	0.00	0.00	100%
5251/840 Black	9.6	48.50%	0.0%	48.5%	0.0%	0.00%	0.00160	600.000	4.66	4.66	4.47	107.27	19.58	0.00	0.00	100%
5901 Gray/Silver	9.1	72.70%	0.0%	72.7%	0.0%	0.00%	0.00160	600.000	6.64	6.64	6.37	152.93	27.91	0.00	0.00	100%
5901 Bright Silver	9.1	51.00%	0.0%	51.0%	0.0%	0.00%	0.00160	600.000	4.62	4.62	4.44	106.46	19.43	0.00	0.00	100%
Aromatic 150 (Thinners/Cleaning Solvents)	7.5	100.00%	0.0%	100.0%	0.0%	0.00%	0.00040	600.000	7.46	7.46	1.79	42.97	7.84	0.00	0.00	100%
S-232 (Thinners/Cleaning Solvents)	7.1	100.00%	50.0%	50.0%	0.0%	0.00%	0.00040	600.000	3.53	3.53	0.85	20.33	3.71	0.00	0.00	100%
PM Acetate (Thinners/Cleaning Solvents)	8.1	100.00%	0.0%	100.0%	0.0%	0.00%	0.00040	600.000	8.11	8.11	1.95	46.71	8.53	0.00	0.00	100%
Magni 777 (Thinners/Cleaning Solvents)	6.7	100.00%	0.0%	100.0%	0.0%	0.00%	0.00040	600.000	6.67	6.67	1.60	38.42	7.01	0.00	0.00	100%
													36.87			

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) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
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: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Chromium Compounds	Weight % Naphthalene	Weight % Cumene	Weight % Ethylene Glycol	Weight % Glycol Ether	Xylene Emissions (tons/yr)	Chromium Compounds Emissions (tons/yr)	Naphthalene Emissions (tons/yr)	Cumene Emissions (tons/yr)	Ethylene Glycol Emissions (tons/yr)	Glycol Ether Emissions (tons/yr)	Total HAPs
Dip Tank																
Corrosion Inhibitor Dip Tank	6.7	0.00010	1666	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	
Dip Spin Coating Line No. 1																
Magni B06J	12.6	0.00160	600	1.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54	0.00	0.00	0.00	0.00	0.00	0.54
Magni B17	9.4	0.00160	600	1.67%	2.54%	0.00%	0.00%	0.00%	0.00%	0.66	1.01	0.00	0.00	0.00	0.00	1.67
Magni P04A	8.9	0.00160	600	3.33%	0.00%	0.00%	0.00%	0.00%	0.00%	1.25	0.00	0.00	0.00	0.00	0.00	1.25
Dacromet 320	11.3	0.00160	600	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00	2.38	0.00	0.00	0.00	0.00	2.38
Dacromet 107	9.3	0.00160	600	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00	0.00	0.00	0.00	1.17	0.00	1.17
5250/571 Blue	8.9	0.00160	600	0.00%	0.00%	0.00%	0.00%	0.00%	47.25%	0.00	0.00	0.00	0.00	0.00	17.62	17.62
5251/840 Black	9.6	0.00160	600	0.00%	0.00%	0.00%	0.00%	0.00%	41.26%	0.00	0.00	0.00	0.00	0.00	16.66	16.66
5901 Gray/Silver	9.1	0.00160	600	0.00%	1.45%	0.00%	0.00%	0.00%	56.32%	0.00	0.56	0.00	0.00	0.00	21.62	22.18
5901 Bright Silver	9.1	0.00160	600	0.00%	0.00%	0.00%	0.00%	0.00%	27.28%	0.00	0.00	0.00	0.00	0.00	10.39	10.39
Aromatic 150 (Thinners/Cleaning Solvents)	7.5	0.00040	600	0.50%	0.00%	9.90%	0.10%	0.00%	0.00%	0.04	0.00	0.78	0.01	0.00	0.00	0.82
S-232 (Thinners/Cleaning Solvents)	7.1	0.00040	600	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PM Acetate (Thinners/Cleaning Solvents)	8.1	0.00040	600	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magni 777 (Thinners/Cleaning Solvents)	6.7	0.00040	600	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dip Spin Coating Line 2										**1.25**	**2.38**	**0.78**	**0.01**	**1.17**	**21.62**	**22.18**
Magni B06J	12.6	0.00160	600	1.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54	0.00	0.00	0.00	0.00	0.00	0.54
Magni B17	9.4	0.00160	600	1.67%	2.54%	0.00%	0.00%	0.00%	0.00%	0.66	1.01	0.00	0.00	0.00	0.00	1.67
Magni P04A	8.9	0.00160	600	3.33%	0.00%	0.00%	0.00%	0.00%	0.00%	1.25	0.00	0.00	0.00	0.00	0.00	1.25
Dacromet 320	11.3	0.00160	600	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00	2.38	0.00	0.00	0.00	0.00	2.38
Dacromet 107	9.3	0.00160	600	0.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00	0.00	0.00	0.00	1.17	0.00	1.17
5250/571 Blue	8.9	0.00160	600	0.00%	0.00%	0.00%	0.00%	0.00%	47.25%	0.00	0.00	0.00	0.00	0.00	17.62	17.62
5251/840 Black	9.6	0.00160	600	0.00%	0.00%	0.00%	0.00%	0.00%	41.26%	0.00	0.00	0.00	0.00	0.00	16.66	16.66
5901 Gray/Silver	9.1	0.00160	600	0.00%	1.45%	0.00%	0.00%	0.00%	56.32%	0.00	0.56	0.00	0.00	0.00	21.62	22.18
5901 Bright Silver	9.1	0.00160	600	0.00%	0.00%	0.00%	0.00%	0.00%	27.28%	0.00	0.00	0.00	0.00	0.00	10.39	10.39
Aromatic 150 (Thinners/Cleaning Solvents)	7.5	0.00040	600	0.50%	0.00%	9.90%	0.10%	0.00%	0.00%	0.04	0.00	0.78	0.01	0.00	0.00	0.82
S-232 (Thinners/Cleaning Solvents)	7.1	0.00040	600	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PM Acetate (Thinners/Cleaning Solvents)	8.1	0.00040	600	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magni 777 (Thinners/Cleaning Solvents)	6.7	0.00040	600	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
										1.25	**2.38**	**0.78**	**0.01**	**1.17**	**21.62**	**22.18**

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

Appendix A: Emission Calculations
Cold Solvent Cleaner

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

A. Raymond Tinnerman Manufacturing, Inc.
Calculation of Potential Emissions from Cold Solvent Cleaner

Cold Solvent Part Washer Tank #4, Potential Emissions

Process Description	Product Name	Material Recieved	Material Disposed (Off-site Recycling)	Worst Case Net Usage *	Potential Annual Usage	Specific Gravity	Product Density	VOC Content	VOC Content	Potential Emissions VOC	Potential Emissions VOC	Potential Emissions VOC
		gal/qtr	gal/qtr	gal/qtr	gallons	g/cc	lb/gal	% wt	lb/gal	lb/qtr	lb/year	ton/year
Cold Solvent Cleaning Tank #4	High Flash Naphtha/ Solvent 142	55	49	6	24.00	0.80	6.67	100%	6.67	40.032	160.1	0.08

Methodology:
Quarterly usage is estimated based on a material balance of incoming and outgoing parts washer solvent, worst case is summer months.
Net usage (gallons) = material received (gallons) - Material Disposed (gallons)
net usage (gallons) x density (lb/gallon) / 2000 lb/ton = Ton/year Emitted

Appendix A: Process Particulate Emissions
Two Wheelabrators (EU6-a and EU6-b)

Company Name: **A. Raymond Tinnerman Manufacturing, Inc.**
Address City IN Zip: **800 West County Road 250 South, Logansport, IN 46947**
FESOP: **F017-24109-00027**
Significant Permit Revision: **017-36809-00027**
Reviewer: **Mehul Sura**

Emission Unit Description	Outlet Grain Loading (gr/acf)	Control Device Fan Flow Rate (acfm)	PM/PM-10 Control Efficiency (%)	Potential PM/PM-10 Emission Rate			
				Before Controls (lb/hr)	Before Controls (tons/yr)	After Controls (lb/hr)	After Controls (tons/yr)
Wheelabrator Dust Collector	0.03	4,500.00	99.00%	115.71	506.83	1.16	5.07

Methodology:
Potential Uncontrolled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs
Potential Controlled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs * (1 - Control Efficiency)
Total PM is assumed equal to PM-10.

Appendix A: Emission Calculations
Abrasive Grinding - Confined (EU-2) and (EU-8)

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Steel	487

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

	Nozzle Pressure (psig)							
Internal diameter, in	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)	
FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =	63
D = Density of abrasive (lb/ft3) From Table 2 =	99
D1 = Density of sand (lb/ft3) =	99
ID = Actual nozzle internal diameter (in) =	0.156
ID1 = Nozzle internal diameter (in) from Table 3 =	0.125

Flow Rate (FR) (lb/hr) = **98.438** per nozzle

Uncontrolled Emissions (E, lb/hr)

	PM	PM-10
EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.041	0.700
FR = Flow Rate (lb/hr) =	98.438	98.438
w = fraction of time of wet blasting =	0 %	0 %
N = number of nozzles =	2	2

	PM		PM-10	
Uncontrolled Emissions =	**8.07**	**lb/hr**	**5.65**	**lb/hr**
	35.35	**ton/yr**	**24.75**	**ton/yr**
Controlled Emissions =	**0.16**	**lb/hr**	**0.11**	**lb/hr**
	0.71	**ton/yr**	**0.49**	**ton/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
Control Efficiency = 98%
Controlled Emissions (tons/yr) = Uncontrolled Emissions * (1- Control Efficiency)

Appendix A: Emissions Calculations
Zinc Electroplating - Two Electroplating Tanks

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Uncontrolled particulate emission factor for zinc electroplating tanks

(1) $EFm = 3.3 \times 10e\text{-}7 \times (EEm/em) \times Cm \times Dm$

Where:

EFm =	4.39E-06	emission factor for metal "m", grains/dscf
EEm =	13.70	electrochemical equivalent for metal "m", A-hr/mil-ft2
em =	30	cathode efficiency for metal "m", percent
Cm =	3	bath concentration for metal "m", oz/gal
Dm =	9.70	current density for metal "m", A/ft2

Uncontrolled particulate emission factor due to air sparging

(2) $E2 = \frac{1.9 \times sigma}{Rb} \times \frac{[(1 - 2a + 9a^2)^{0.5} + (a - 1)]^{0.5}}{[(1 + 3a) - (1 - 2a + 9a^2)^{0.5}]^{0.5}}$

Where:

E2 =	0.041	emission factor in grains/dscf of aeration air
sigma =	0.005	surface tension of bath in pounds force per foot
Rb =	0.1	average bubble radius, inches
a =	0.150108716	= 0.072 x Rb2/sigma

Uncontrolled particulate emissions from zinc electroplating tanks

(3) Emissions = EF * Capacity (Amp) * 8,760 hrs/yr * lbs/7000 grains * ton/2000 lbs
= **30.619** tons/yr

Where:

EF =	0.04078	emission factor for zinc plating, grains/dscf
EF =	4.078	emission factor for zinc plating, grains/A-hr
Maximum Capacity =	12,000	Amp

Controlled particulate emissions from zinc electroplating tanks

(4) Emissions = EF * Capacity (Amp) * 8,760 hrs/yr * lbs/7000 grains * ton/2000 lbs
= **0.315** tons/yr

Where:

EF =	0.00042	emission factor for zinc plating, grains/A-hr
EF =	0.042	emission factor for zinc plating, grains/A-hr
Maximum Capacity =	12,000	Amp

Notes:
Emission factor calculations are based on AP-42, Chapter 12.20, Page 12.20-13.

Since AP-42 does not have an emission factor for controlled emissions from zinc electroplating, an emission factor of 0.00042 grains/A-hr was used to calculate PM/PM-10 emissions from this process. This emission factor is the chromium electroplating (using polypylene balls) emission factor in AP-42 -Table 12.20-1. It was used because chromium electroplating has a low cathode efficiency and would give a conservative estimate of emissions. A controlled emission factor using polypylene balls was used because it was the worst-case emission factor. The source does not perform chromium electroplating.

Electrochemical equivalent and the average bubble radius were obtained from the background document for AP-42, Chapter 12.20, Page 3-7.

Cathode efficiency is worst-case value from AP-42, Page 12.20-8 for chromium electroplating. Range was 30 to 60%.

Bath concentration as per source.

Current density is from AP-42, Chapter 12.20, Page 12.20-11.

A surface tension of 70 dynes per centimeter was estimated. This number was converted to pounds per foot.

Based on the background document for AP-42, Chapter 12.20 (hexavalent chromium plating without surfactants) as surface tension for other metals, was not provided.

Converted grains/dscf to grains/amp-hr by multiplying by 100.

Appendix A: Emissions Calculations
Acid Dip Process - Two HCl Dip Tanks

Company Name: **A. Raymond Tinnerman Manufacturing, Inc.**
Address City IN Zip: **800 West County Road 250 South, Logansport, IN 46947**
FESOP: **F017-24109-00027**
Significant Permit Revision: **017-36809-00027**
Reviewer: **Mehul Sura**

Tank surface measures 72" x 62" = 31 ft^2

PM/PM10/HCl Emissions:

PTE	=	A * EF * (1- (ER/100)
	=	31 ft^2 * 4.2 grains/hr-ft^2 * (1- (0/100)
	=	130.2 grains/hr * lbs/7,000 grains * 8760 hrs/yr * ton/2000 lb * 2 tanks
	=	**0.162936** tons/yr

A = Activity rate = 1 tank * 31 ft^2 per hr of usage
ER = Emissions Reduction = 0 because no emission controls are employed.

Notes:
An emission factor of 4.2 grains/hr-ft^2 was used to calculate PM/PM-10 and HCl emissions from this process. This emission factor is the chromic acid emission factor in AP-42 -Table 12.20-2. It was used because chromic acid has a low cathode efficiency, which is the worst-case for mist generation. The source does not perform chromium electroplating.
Emission calculation methodology is based on a general equation from AP-42 - Introduction to AP-42, Volume I, Fifth Edition, Page 1.

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

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura
Date:

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
9.7	1020	83.6

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.08	0.32	0.32	0.03	4.18	0.23	3.51

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	8.778E-05	5.016E-05	3.135E-03	7.524E-02	1.421E-04	**7.865E-02**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	2.090E-05	4.598E-05	5.852E-05	1.588E-05	8.778E-05	**2.291E-04**
					Total HAPs	**7.888E-02**
					Worst HAP	**7.524E-02**

Methodology is the same as above.

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

Greenhouse Gas Calculations

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	5,016	0.1	0.1
Summed Potential Emissions in tons/yr	5,016		
CO2e Total in tons/yr	5,046		

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.
Global 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 (25) + N2O Potential Emission ton/yr x N2O GWP (298).

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

Company Name: **A. Raymond Tinnerman Manufacturing, Inc.**
Address City IN Zip: **800 West County Road 250 South, Logansport, IN 46947**
FESOP: **F017-24109-00027**
Significant Permit Revision: **017-36809-00027**
Reviewer: **Mehul Sura**

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
30.13	1020	258.76

Heat Input Capacity MMBtu/hr			Potential Throughput MMCF/yr	
12.50	Curing Ovens		12.50	
9.00	Main Building Space Heating		9.00	
7.13	Coating Building Space Heating		7.13	
1.50	EU-7b dryers		1.50	
30.13	**Total**		**263.94**	**Total**

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.25	0.98	0.98	0.08	12.94	0.71	10.87

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	2.717E-04	1.553E-04	9.704E-03	2.329E-01	4.399E-04	**2.435E-01**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	6.469E-05	1.423E-04	1.811E-04	4.917E-05	2.717E-04	**7.090E-04**
					Total HAPs	**2.442E-01**
					Worst HAP	**2.329E-01**

Methodology is the same as above.

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

Greenhouse Gas Calculations

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	15,525.81	0.30	0.28
Summed Potential Emissions in tons/yr	15,526.39		
CO2e Total in tons/yr	15,618.07		

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.
Global 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 (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Heat Input Capacity MMBtu/hr		HHV mmBtu/mmscf	Potential Throughput MMCF/yr
7.20	Tube Burners to Heat Treat Furnace (EU-3)	1020	61.84

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.06	0.23	0.23	0.02	3.09	0.17	2.60

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	6.493E-05	3.710E-05	2.319E-03	5.565E-02	1.051E-04	**5.818E-02**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.546E-05	3.401E-05	4.328E-05	1.175E-05	6.493E-05	**1.694E-04**
					Total HAPs	**5.835E-02**
					Worst HAP	**5.565E-02**

Methodology is the same as above.

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

Greenhouse Gas Calculations

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	3710.12	0.07	0.1
Summed Potential Emissions in tons/yr	3,710.26		
CO2e Total in tons/yr	3,732.17		

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.
Global 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 (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

CO Process Emissions
Chemical Reaction: $N_2 + CH_3OH + 2CH_4 + O_2 \rightarrow N_2 + CO + CO_2CH_4 + 4H_2$
For every one pound of CH_3OH that is used, 0.87422 pounds of CO is created.

Max. CH_3OH (gal/day)	Density (lb/gal)	Max. CH_3OH (lb/day)	Max. CH_3OH (lb/hr)	Emission Factor (lb CO/lb CH_3OH)	Fire Protection Burnoff Efficiency (%)	CO Emissions to Atmosphere (lb/hr)	CO Emissions to Atmosphere (ton/yr)
200	6.59	1318	54.9	0.87	98.5	0.72	3.15

Methodology:
CO Emissions to Atmosphere (ton/yr) = Max. CH3OH Usage (gal/day) * Density (lb/gal) * 1 day/24 hr * Emission Factor (lb CO/lb CH_3OH) * (1-Fire Protection Burnoff Efficiency) * 1 ton/2000 lbs

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
1.81	1020	15.54

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.01	0.06	0.06	0.00	0.78	0.04	0.65

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	1.632E-05	9.327E-06	5.829E-04	1.399E-02	2.643E-05	**1.463E-02**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	3.886E-06	8.550E-06	1.088E-05	2.953E-06	1.632E-05	**4.259E-05**
					Total HAPs	**1.467E-02**
					Worst HAP	**1.399E-02**

Methodology is the same as above.

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

Greenhouse Gas Calculations

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	932.68	0.02	0.02
Summed Potential Emissions in tons/yr	932.72		
CO2e Total in tons/yr	938.22		

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.
Global 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 (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas
Output Rating (<=100 HP)
Emergency Generators

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

ID	Manufacturer	Date of Installation	KW-hr rating	Output HP-hr
Main Plant	Unknown	2005	15	20.1
		Totals	**15**	**20.1**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Output Horsepower Rating	20.1	
Conversion Factor BTU/HP-hr	7000	AP-42 Table 3.3-1
Heat Input Capacity (MMBtu/hr)	0.14	
Maximum Hours Operated per Year	500	EPA white paper assumption for emergency generators operating hours per year
Potential Throughput (MMBtu/yr)	70	

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu <90% load	0.0000771	0.010	0.010	0.00059	0.847	0.118	0.557
Potential Emission in tons/yr	0.0000	0.0004	0.0004	0.0000	0.0298	0.0042	0.0196

*PM2.5 and PM10 emission factors are the sum of filterable and condensible PM. PM is assumed to be the same as filterable PM.

Hazardous Air Pollutants (HAPs)

	Pollutant								
	Toluene	Xylene	Methanol	n-Hexane	Formaldehyde	Acetaldehyde	Acrolein	2,2,4-Trimethyl pentane	Benzene
Emission Factor in lb/MMBtu	4.08E-04	1.84E-04	2.50E-03	1.11E-03	5.28E-02	8.36E-03	5.14E-03	2.50E-04	4.40E-04
Potential Emission in tons/yr	0.0000	0.0000	0.0001	0.0000	0.0019	0.0003	0.0002	0.0000	0.0000

Potential Emission of Total HAPs (tons/yr)	**2.50E-03**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu	1.10E+02	1.25E+00	0.00E+00
Potential Emission in tons/yr	3.87E+00	4.40E-02	0.00E+00

Summed Potential Emissions in tons/yr	**3.91E+00**
CO2e Total in tons/yr	**4.79E+00**

Methodology
Emission Factors are from AP42 (07/2000), Tables 3.2-1 and 3.2-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Heat Input Capacity (MMBtu/hr) = [Output Horsepower Rating (HP-hr)] * [Conversion Factor (7000 BTU/hr input per Output HP-hr]
Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [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 ton/yr x N2O GWP (310).

Appendix A: Emissions Calculations
Welding

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPs (lbs/hr)
WELDING				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Metal Inert Gas (MIG)(carbon steel)	1	9.3		0.0055	0.0005			0.051	0.005	0.000	0.000	0.005
EMISSION TOTALS												
Potential Emissions lbs/hr								0.05	0.00	0.00	0.00	0.00
Potential Emissions lbs/day								1.23	0.11	0.00	0.00	0.11
Potential Emissions tons/year								0.22	0.02	0.00	0.00	0.02

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.
Welding emissions, lb/hr: # of stations * max. lbs of electrode used/hr/station * emission factor (lb. pollutant/lb. of electrode used)
Emissions (lbs/day) = emissions (lbs/hr) * 24 hrs/day
Emissions (tons/yr) = emissions (lb/hr) * 8,760 (hrs/yr) * 1 ton/2,000 lbs

Appendix A: Emission Calculations
Combustion Emissions
Insignificant Combustion Activities

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

Description of Insignificant Combustion Activities:
One (1) spin drying oven on coating Line No. 4 with a maximum heat input capacity of 1.5 million British thermal units (MMBtu) per hour.
Two (2) aqueous mechanical plating drying ovens each with a maximum heat input capacity of 0.18 million British thermal units (MMBtu) per hour.

Maximum Heat Input MMBtu/hr	Potential Througput MMCF/yr
1.86	16.6

Criteria Pollutants

	Pollutant					
	PM	PM10	SO2	NO_x	VOC	CO
Emission Factor*	1.9	7.6	0.6	100.0	5.5	84.0
Units	lb/MMCF	lb/MMCF	lb/MMCF	lb/MMCF	lb/MMCF	lb/MMCF
Potential Emission in tons/yr	0.02	0.06	0.00	0.83	0.05	0.70

* Emission factors from Fifth Edition AP-42, Section 1.4, "Natural Gas Combustion", 7/98.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMCF	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.75E-05	9.97E-06	6.23E-04	1.50E-02	2.83E-05

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor in lb/MMCF	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.15E-06	9.14E-06	1.16E-05	3.16E-06	1.75E-05

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)
The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.
All Emission factors are based on normal firing.

Methodology

Criteria Pollutants
Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Potential Emission in tons/yr = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF) * 1 ton/2000lbs

HAPs
Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Potential Emission in tons/yr = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
Limited Potential Emission in tons/yr = Limited Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas
Output Rating (<=100 HP)

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 W County Road 250 S
Permit Number: 017-XXXXXX-00027
Plt ID: 017-00027
Reviewer:
Date:

A. Raymond Tinnerman Manufacturing, Inc.
Calculation of Potential Emissions from Burn-Off Oven

Description	Total Input Rating MMBtu/hr	Manufacturer
.213 MMBTU/hr Burn-off Oven Primary Burner	0.213	PCP
.215 MMBTU/hr After Burner	0.215	PCP
Total NG Fired Input (MMBTU/hr)	**0.428**	

Input Parameters	Value	Unit
Natural Gas Heat Value	1020	MMBtu/MMCF
Total Maximum Batches Per Day (8 hours per batch including cool-down)	3	batches/day
Total Weight of Parts Processed Per Batch	960	lbs/batch
Total Weight of Parts Processed Per Day	2880	lbs/day
Total Weight of Parts Prcoessed Per Hour	120	lbs/hr
Total Pounds Residue Combusted Per Batch	50	lbs/batch
Total Pounds Residue Combusted Per Day	150	lbs/day
Total Pounds Residue Combusted Per Hour	6.25	lbs/hr

Burn-off Oven Emission Factors
Uncontrolled Emission Factors - Natural Gas Combustion and Refuse Combusion

Pollutant	AP-42 Emission Factors, Natural Gas Combustion, AP-42 1.4		Refuse Combustors, Single Chamber Industrial, AP-42 Table 2.1-12	
PM/PM10	7.6	lb/MMCF	15.0	lb/ton
SO2	0.6	lb/MMCF	2.5	lb/ton
NOx	100	lb/MMCF	2.0	lb/ton
VOC (as methane)	5.5	lb/MMCF	15.0	lb/ton
CO	84	lb/MMCF	20.0	lb/ton

Uncontrolled Potential to Emit

Pollutant	Natural Gas Input (MMCF/hr)	Refuse Input (Tons Residue Combusted/hr)	Natural Gas Emissions (lb/hr)	Refuse Combustion Emissions (lb/hr)	Total Emissions from Burn-off Oven (lb/hr)	Total Emissions from Burn-off Oven (lb/day)	Total Emissions from Burn-off Oven (lb/yr)	Total Emissions from Burn-off Oven (ton/yr)
PM/PM10	0.000420	0.0031	0.00319	0.000023	0.00321	0.0771	28.14	0.0141
SO2	0.000420	0.0031	0.00025	0.000004	0.00026	0.0061	2.24	0.0011
NOx	0.000420	0.0031	0.04196	0.000003	0.04196	1.0071	367.60	0.1838
VOC (as methane)	0.000420	0.0031	0.00231	0.000023	0.00233	0.0560	20.42	0.0102
CO	0.000420	0.0031	0.03525	0.000031	0.03528	0.8467	309.04	0.1545

Controlled Potential to Emit

Pollutant	% Controlled by After Burner	Natural Gas Emissions (lb/hr)	Refuse Combustion Emissions (lb/hr)	Total Emissions from Burn-off Oven (lb/hr)	Total Emissions from Burn-off Oven (lb/day)	Total Emissions from Burn-off Oven (lb/yr)	Total Emissions from Burn-off Oven (ton/yr)
PM/PM10	95.00%	0.00016	0.000001	0.00016	0.00385	1.40706	0.00070
SO2	0%	0.00025	0.000004	0.00026	0.00614	2.23968	0.00112
NOx	0%	0.04196	0.000003	0.04196	1.00713	367.60385	0.18380
VOC (as methane)	95.00%	0.00012	0.000001	0.00012	0.00280	1.02110	0.00051
CO	95.00%	0.00176	0.000002	0.00176	0.04233	15.45190	0.00773

Methodology:
Natural Gas Input MMCF/hr = NG Fired Input MMBtu/hr / 1020 MMBtu/MMCF
Total Pounds Residue Combusted Per Hour = Total Pounds Residue Combusted Per Batch * Total Batches Per Day / 24 hours per day
Refuse Input (Tons Residue Combusted/hr) = Total Pounds Residue Combusted Per Hour * 1 ton/2000 lbs
Uncontrolled Natural Gas Emissions lb/hr = Emission Factor lb/MMCF * Natural Gas Input MMCF/hr
Uncontrolled Refuse Combustion Emissions lbs/hr = Emission Factor lb/ton * 1 ton/2000 lbs * Refuse Input (Tons Residue Combusted/hr)
Uncontrolled Total Emission from Burn-off Oven lb/day = Uncontrolled Natural Gas Emissions lb/hr + Uncontrolled Refuse Combustion Emissions lb/hr
Uncontrolled Total Emissions from Burn-off Oven lb/yr = Total Uncontrolled Emissions from Burn-off Oven (lb/hr) * 24 hours/day
Uncontrolled Total Emissions from Burn-off Oven ton/yr = Total Emissions from Burn-off Oven lb/hr * 8760 hours/year
Controlled Emissions = Total Emissions from Burn-off Oven * (1-Control Efficiency)

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Emission Factor in lb/MMcf	0.00210	0.00120	0.07500	1.80000	0.00340	
Potential Emissions in tons/yr	0.0000039	0.0000022	0.0001378	0.0033082	0.0000062	0.0034583

HAPs - Metals

	Lead	Cadmium	Chromium	Managanese	Nickel	
Emission Factor in lb/MMcf	0.00050	0.00110	0.00140	0.00040	0.00210	
Potential Emissions in tons/yr	0.00000092	0.00000202	0.00000257	0.00000074	0.00000386	0.00001011
					Total HAPs	0.0034685
Total HAPs (ton/year) =	**0.00347**				Worst HAP	0.0033082

Methodology:
HAPs Potential Emissions tons/yr = Total NG Fired Input MMBtu/hour * 1020 MMBty/MMCF * 8760 hours/yr * Emission Factor lb/MMcf * 1 ton/2000 lbs

PE Allowable Emissions per 326 IAC 6-3-2
Emission Limitation, lb/hr 0.551 lb/hr
Maximum Potential Emissions Prior to Control 0.0032 lb/hr

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas
Output Rating (<=100 HP)
Emergency Generators

Company Name: A. Raymond Tinnerman Manufacturing, Inc.
Address City IN Zip: 800 West County Road 250 South, Logansport, IN 46947
FESOP: F017-24109-00027
Significant Permit Revision: 017-36809-00027
Reviewer: Mehul Sura

ID	Manufacturer	Date of Installation	KW-hr rating	Output HP-hr
E-2	Generac Model QTO 45	2010	45	60.3
E-3	Generac Model QTO 70	2010	70	93.8
		Totals	**115**	**154.1**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Output Horsepower Rating	154.1	
Conversion Factor BTU/HP-hr	7000	AP-42 Table 3.3-1
Heat Input Capacity (MMBtu/hr)	1.08	
Maximum Hours Operated per Year	500	EPA white paper assumption for emergency generators operating hours per year
Potential Throughput (MMBtu/yr)	539	

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu <90% load	0.0000771	0.010	0.010	0.00059	0.847	0.118	0.557
Potential Emission in tons/yr	0.0000	0.0027	0.0027	0.0002	0.2284	0.0318	0.1502

*PM2.5 and PM10 emission factors are the sum of filterable and condensible PM. PM is assumed to be the same as filterable PM.

Hazardous Air Pollutants (HAPs)

	Pollutant								
	Toluene	Xylene	Methanol	n-Hexane	Formaldehyde	Acetaldehyde	Acrolein	2,2,4-Trimethyl pentane	Benzene
Emission Factor in lb/MMBtu	4.08E-04	1.84E-04	2.50E-03	1.11E-03	5.28E-02	8.36E-03	5.14E-03	2.50E-04	4.40E-04
Potential Emission in tons/yr	0.0001	0.0000	0.0007	0.0003	0.0142	0.0023	0.0014	0.0001	0.0001

Potential Emission of Total HAPs (tons/yr)	**1.92E-02**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu	1.10E+02	1.25E+00	0.00E+00
Potential Emission in tons/yr	2.97E+01	3.37E-01	0.00E+00

Summed Potential Emissions in tons/yr	**3.00E+01**
CO2e Total in tons/yr	**3.67E+01**

Methodology
Emission Factors are from AP42 (07/2000), Tables 3.2-1 and 3.2-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Heat Input Capacity (MMBtu/hr) = [Output Horsepower Rating (HP-hr)] * [Conversion Factor (7000 BTU/hr input per Output HP-hr]
Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [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 ton/yr x N2O GWP (310).

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas
Output Rating (<=100 HP)

Company Name: **A. Raymond Tinnerman Manufacturing, Inc.**
Address City IN Zip: **800 West County Road 250 South, Logansport, IN 46947**
FESOP: **F017-24109-00027**
Significant Permit Revision: **017-36809-00027**
Reviewer: **Mehul Sura**

Mechanical Zinc Plating Line, Spin Drying Oven #3

Description	Quantity	Input Rating MMBtu/hr	Total Input MMBtu/hr
Drying Oven #3	1	0.18	0.18
Total			**0.18**

NG Heat Value:	1020	MMBtu/MMCF
Total Maximum Firing Rate (MMCF/hr)	0.0002	MMCF/hr
Emissions Factor from AP-42 1.4		
PM	1.9	lb/MMCF
PM10	7.6	lb/MMCF
SO2	0.6	lb/MMCF
NOx	100	lb/MMCF
VOC	5.5	lb/MMCF
CO	84	lb/MMCF

Combustion Emissions For Zinc Plating Oven 3	**lb/hr**	**max heating hours/ year**	**tpy**
PM	0.0003	8760	0.001
PM10	0.0013	8760	0.006
SO2	0.0001	8760	0.0005
NOx	0.0176	8760	0.077
VOC	0.0010	8760	0.004
CO	0.0148	8760	0.065

Indiana Department of Environmental Management
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Carol S. Comer
Commissioner

March 29, 2016

Mr. Vince Rhoades, Finishing Superintendent
A. Raymond Tinnerman Manufacturing, Inc.
800 West County Road 250 South
Logansport, IN 46947

Re: Public Notice
A. Raymond Tinnerman Manufacturing, Inc.
Permit Level: Federally Enforceable State Operating Permit (FESOP) Significant Permit Revision
Permit Number: 017-36809-00027

Dear Mr. Rhoades:

Enclosed is a copy of your draft Federally Enforceable State Operating Permit (FESOP) Significant Permit Revision, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Pharos Tribune in Logansport, Indiana publish the abbreviated version of the public notice no later than March 31, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Logansport-Cass County Public Library, 616 East Broadway in Logansport, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Mehul Sura, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 2 or 3-3838 or dial (317) 233-6868.

Sincerely,

Vivian Haun

Vivian Haun
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

March 28, 2016

Pharos Tribune
517 East Broadway
PO Box 210
Logansport, IN 46947

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for A. Raymond Tinnerman Manufacturing, Inc., Cass County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than March 31, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Vivian Haun at 800-451-6027 and ask for extension 3-6878 or dial 317-233-6878.

Sincerely,

Vivian Haun

Vivian Haun
Permit Branch
Office of Air Quality

Permit Level: Federally Enforceable State Operating Permit (FESOP)
Significant Permit Revision
Permit Number: 017-36809-00027

Enclosure

PN Newspaper.dot 2/17/2016

Indiana Department of Environmental Management
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Michael R. Pence
Governor

Carol S. Comer
Commissioner

March 29, 2016

To: Logansport-Cass County Public Library

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: A. Raymond Tinnerman Manufacturing, Inc.
Permit Number: 017-36809-00027

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 2/17/2016

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

Notice of Public Comment

March 29, 2016
A. Raymond Tinnerman Manufacturing, Inc.
017-36809-00027

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 2/17/2016

Mail Code 61-53

IDEM Staff	VHAUN 3/29/2016 A. Raymond Tinnerman Manufacturing, Inc 017-36809-00027 DRAFT		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	Type of Mail: **CERTIFICATE OF MAILING ONLY**

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		Vince Rhoades A. Raymond Tinnerman Manufacturing, Inc 800 W couty Road 250 S Logansport IN 46947 (Source CAATS)									
2		Keith Holmes Plant Manager A. Raymond Tinnerman Manufacturing, Inc 800 W County Road 250 S Logansport IN 46947 *(RO CAATS)*									
3		Mr. Harry D. DuVall P.O. Box 147 Idaville IN 47950 *(Affected Party)*									
4		Cass County Board of Commissioner 200 Court Park Logansport IN 46947 *(Local Official)*									
5		Cass County Health Department 512 High Street Logansport IN 46947-2766 *(Health Department)*									
6		Logansport Cass Co Public Library 616 E Broadway Logansport IN 46947-3187 *(Library)*									
7		Logansport City Council and Mayors Office 601 Broadway Logansport IN 46947 *(Local Official)*									
8		Kurt Brandstatter Central Paving, Inc. P.O. Box 357 Logansport IN 46947 *(Affected Party)*									
9		John Wellspring Keramida Environmental, Inc. 401 N College Ave. Indianapolis IN 46202 *(Consultant)*									
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