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 Manchester Tank and Equipment Company in Lawrence County

Significant Permit Revision No.: 093-37276-00010

The Indiana Department of Environmental Management (IDEM) has received an application from Manchester Tank and Equipment Company, located at 905 X Street, Bedford, Indiana 47421, for a significant revision of its FESOP issued on June 17, 2016. If approved by IDEM's Office of Air Quality (OAQ), this proposed revision would allow Manchester Tank and Equipment Company to make certain changes at its existing source. Manchester Tank and Equipment Company has applied to construct a new production line.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). The potential to emit regulated air pollutants will continue to be limited to less than the Title V and PSD major threshold levels. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

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

Bedford Library
1323 K Street
Bedford, IN 47421

and

IDEM Southeast Regional Office
820 West Sweet Street
Brownstown, IN 47220-9557

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 093-37276-00010 in all correspondence.

Comments should be sent to:

Joshua Levering
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 4-6543
Or dial directly: (317) 234-6543
Fax: (317) 232-6749 attn: Joshua Levering
E-mail: JLeverin@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, at the IDEM Regional Office 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 Joshua Levering of my staff at the above address.

Jason R. Krawczyk, Section Chief
Permits Branch
Office of Air Quality

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Commissioner

DRAFT

Ms. Terri Evans
Manchester Tank and Equipment Company
905 X Street
Bedford, IN 47421

Re: 093-37276-00010
Significant Revision to
F093-36543-00010

Dear Ms. Evans:

Manchester Tank and Equipment Company was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F093-36543-00010 on June 17, 2016 for a stationary metal pressure vessel manufacturing plant located at 905 X Street, Bedford, Indiana 47421. On June 6, 2016, the Office of Air Quality (OAQ) received an application from the source requesting approval to construct and operate a new production line to produce both propane and air tanks. The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/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.

DRAFT

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 attachment. Since this attachment has been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of this attachment with this revision:

Attachment A: 40 CFR 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories

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 Joshua Levering of my staff at 317-234-6543 or 1-800-451-6027, and ask for extension 4-6543.

Sincerely,

Jason R. Krawczyk, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

JK/jjl

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

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Michael R. Pence
Governor

DRAFT

Carol S. Comer
Commissioner

Federally Enforceable State Operating Permit Renewal
OFFICE OF AIR QUALITY

Manchester Tank and Equipment Company
905 X Street
Bedford, Indiana 47421

(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.: F093-36543-00010	
Issued by/*Original Signed by*: Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 17, 2016 Expiration Date: June 17, 2026

Significant Permit Revision No.: 093-37276-00010	
Issued by: Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: June 17, 2026

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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 pressure vessel manufacturing plant.

Source Address:	905 X Street, Bedford, Indiana 47421
General Source Phone Number:	812-278-5102
SIC Code:	3443 (Fabricated Plate Work (Boiler Shops))
County Location:	Lawrence
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) Powder Coating Operations, including the following:

(1) One (1) Continuous Powder Coating System, identified as the Mainlines Powder Coat System, for applying coatings to metal pressure vessels (aka tanks), consisting of one (1) electrostatic powder paint booth, identified as PB1, approved for construction in 2011, equipped with two (2) electrostatic hand-held spray applicators, with a maximum throughput capacity of forty-five (45) tanks per hour and a maximum material usage of two and sixty-three hundredths (2.63) pounds of powder paint per tank, using cartridge filters to control particulate emissions, and exhausting to two (2) stacks PB1-S1 and PB1-S2; and

(2) One (1) Batch Powder Coating System, identified as the Big Tank Lines Powder Coat System, for applying coatings to metal pressure vessels (aka tanks), including one (1) batch down draft electrostatic powder paint booth, identified as PB2, approved for construction in 2011, equipped with two (2) electrostatic hand-held spray applicators for color changes. Only one (1) electrostatic hand-held spray applicator being used at a time, with a maximum throughput capacity of one and thirty-three hundredths (1.33) tanks per hour and a maximum material usage of nine and eighty-seven hundredths (9.87) pounds of powder paint per tank, using cartridge filters to control particulate emissions, and exhausting to stacks PB2-S1 and PB2-S2.

(b) One (1) pneumatic blasting operation, identified as SB1, constructed in 2001, and approved for modification in 2011, equipped with a dust collector for particulate control, using steel shot or glass shot media, and exhausting to one (1) stack, identified as SB-01 as follows:

(1) the steel shot media chamber, constructed in 2001, maximum throughput of 25,723 lbs per hour when using steel shots.

(2) the glass shot media chamber, approved for construction in 2011, maximum throughput of 20,400 lbs/hr when using glass shots.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(c) One (1) metal oxyfuel/plasma cutting machine, identified as PC-1, constructed in 2005, used for cutting mild steel, aluminum and stainless steel, using six (6) cartridge filters for particulate control, and exhausting inside the building or to stack PC-1.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal oxyfuel/plasma cutting machine is considered an affected facility.

(d) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

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

(1) One (1), five (5) stage washer, serving the Mainlines Powder Coat System, approved for construction in 2011, equipped with two (2) natural gas-fired burners, identified as WS-1 and WS-3, with a maximum heat input capacity of one and thirty-five hundredths (1.35) MMBtu/hr, each, uncontrolled, and exhausting to stacks WS-S1, WH-S1, WS-S3, and WH-S3, respectively;

(2) One (1) power washer, serving the Big Tank Lines Powder Coat System, constructed in 2012, equipped with one (1) natural gas-fired burner, identified as PW1, with a maximum heat input capacity of forty hundredths (0.40) MMBtu/hr, uncontrolled, and exhausting to stack PW-S1;

(3) One (1) dry-off oven, serving the Mainlines Powder Coat System, approved for construction in 2011, equipped with one (1) natural gas-fired burner, identified as COB-1, with a maximum heat input capacity of one and twelve hundredths (1.12) MMBtu/hr, uncontrolled, and exhausting to stack CO-S1;

(4) One (1) cure oven, serving the Mainlines Powder Coat System, approved for construction in 2011, equipped with two (2) natural gas-fired burners, identified as CO-1 and CO-2, with maximum heat input capacities of one and thirty-eight hundredths (1.38) and two (2.00) MMBtu/hr, respectively, uncontrolled, and exhausting to stack CO-S1;

(5) One (1) batch cure oven, serving the Big Tank Lines Powder Coat System, approved for construction in 2011, equipped with one (1) natural gas-fired burner, identified as BO1, with a maximum heat input capacity of one and twenty hundredths (1.20) MMBtu/hr, uncontrolled, and exhausting to stack BO-S1;

(6) Three (3) natural gas-fired comfort heaters, identified as Comfort Heater #1, Comfort Heater #2, and Comfort Heater #3, constructed in 1987, with a maximum heat input capacity of one hundred twenty thousandths (0.120) million British thermal units (MMBtu) per hour, each, uncontrolled and exhausting inside the building;

(7) One (1) natural gas-fired comfort heater, identified as Comfort Heater #4, constructed in 1987, with a maximum heat input capacity of six and six tenths (6.6) million British thermal units (MMBtu) per hour, uncontrolled and exhausting inside the building;

(8) Three (3) natural gas-fired comfort heaters, identified as Comfort Heater #5, Comfort Heater #6, and Comfort Heater #7, constructed in 2001, with a maximum heat input capacity of ninety thousandths (0.090) million British thermal units (MMBtu) per hour, each, uncontrolled and exhausting inside the building;

(9) One (1) natural gas-fired comfort heater, identified as Comfort Heater #8, constructed in 2001, with a maximum heat input capacity of four hundred ninety-five thousandths (0.495) million British thermal units (MMBtu) per hour, uncontrolled and exhausting inside the building;

(10) One (1) natural gas-fired comfort heater, identified as Comfort Heater #9, constructed in 2010, with a maximum heat input capacity of forty thousandths (0.040) million British thermal units (MMBtu) per hour, uncontrolled and exhausting inside the building; and

(11) One (1) natural gas-fired comfort heater, identified as Comfort Heater #10, constructed in 2010, with a maximum heat input capacity of one hundred thousandths (0.100) million British thermal units (MMBtu) per hour, uncontrolled and exhausting inside the building.

(12) One (1) natural gas-fired comfort heater, identified as Comfort Heater #11, constructed in 2012, with a maximum heat input capacity of 300,000 Btu/hr, uncontrolled, and exhausting to stack PCH-S1. This comfort heater is located in the powder coat building.

(13) One (1) natural gas-fired comfort heater, identified as Comfort Heater #12, constructed in 2012, with a maximum heat input capacity of 300,000 Btu/hr, uncontrolled, and exhausting to stack PCH-S2. This comfort heater is located in the powder coat building.

(14) One (1) natural gas-fired comfort heater, identified as Comfort Heater #13, constructed in 2012, with a maximum heat input capacity of 300,000 Btu/hr, uncontrolled, and exhausting to stack PCH-S3. This comfort heater is located in the powder coat building.

(15) One (1) natural gas-fired comfort heater, identified as Comfort Heater #14, constructed in 2012, with a maximum heat input capacity of 300,000 Btu/hr, uncontrolled, and exhausting to stack PCH-S4. This comfort heater is located in the powder coat building.

(16) One (1) natural gas-fired comfort heater, identified as Comfort Heater #15, approved for construction in 2014, with a maximum heat input capacity of 300,000 Btu/hr, uncontrolled, and exhausting to stack CH-S1.

(17) One (1) natural gas-fired comfort heater, identified as Comfort Heater #16,

constructed in 2014, with a maximum heat input capacity of 80,000 Btu/hr, uncontrolled, and exhausting to stack WHD-3.

(18) One (1) natural gas-fired comfort heater, identified as Comfort Heater #17, constructed in 2011, with a maximum heat input capacity of 80,000 Btu/hr, uncontrolled, and exhausting inside the building.

(19) One (1) natural gas-fired comfort heater, identified as Comfort Heater #18, constructed in 2014, with a maximum heat input capacity of 80,000 Btu/hr, uncontrolled, and exhausting inside the building.

(b) Aerosol spray paint operations, using hand-held aerosol cans for touch-up purposes and marking steel for ASME code purposes, with VOC emissions less than fifteen (15) pounds per day, are uncontrolled, and are conducted both inside and outside the building;

(c) Degreasing operations

(1) Degreasing operations, serving the Mainlines Powder Coat System, using an aqueous-based phosphate-free cleaner and sealer, consisting of one (1) power washer, identified as NW1 and exhausting to two (2) stacks, identified as NW-01 and NW-02;

(2) Degreasing operations performed with one (1) power washer, serving the Big Tank Line Powder Coat System, constructed in 2012, using a phosphate-free manual cleaner, with a potential to emit less than 1 (one) ton per year of VOC, exhausting to one (1) stack, identified as BW-01;

(3) Cold cleaner degreasing operation consisting of one (1) parts washer and using less than 145 gallons per year of solvent.

(d) One (1) multi-gas laser trimmer, with a maximum cutting capacity of thirteen (13) pounds of steel per hour, controlled by a baghouse with a design grain loading of less than or equal to three one-hundredths (0.03) grains per actual cubic foot and an air flow rate less than four thousand (4000) cubic feet per minute (cfm), and exhausting inside the building or to stack L-01;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility.

(e) One (1) Whitney cutting machine with PM10 emissions less than twenty-five (25) pounds per day, and exhausting to stack WY-01;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility;

(f) One (1) plate burner with PM10 emissions less than twenty-five (25) pounds per day;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility.

(g) Four (4) plasma/oxy-fuel head burners with PM10 emissions less than twenty-five (25) pounds per day;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility.

(h) Handheld plasma/oxy-fuel torches with PM10 emissions less than twenty-five (25) pounds per day;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility.

(i) Metal machining where an aqueous cutting coolant continuously floods the machining interface;

(j) The following equipment related to manufacturing activities resulting in the emission of HAPs below insignificant emission levels: brazing equipment, cutting torches, soldering equipment, and welding equipment;

(1) Welding operations with PM10 emission less than twenty-five (25) pounds per day.

(2) Gas Metal Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 46,550 lbs/yr.

(3) Submerged Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 234,380 lbs/yr.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the welding operations are considered affected facilities.

(k) One (1) plasma shell hole cutting machine, identified as PSB-1, located on the Propane/Air tank line, approved in 2016 for construction, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plasma cutting machine is considered an affected facility.

(l) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;

(m) Combustion source flame safety purging on startup;

(n) Process vessel degassing and cleaning to prepare internal repairs;

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

(p) Fork lift operations utilizing multiple forklifts with PM10 emissions less than twenty-five (25) pounds per day; and

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

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 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, F093-36543-00010, 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. All 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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(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.

The Permittee shall implement the PMPs.

(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 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.

(c) 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) 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 or Southeast Regional Office 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
Southeast Regional Office phone: (812) 358-2027; fax: (812) 358-2058.

(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 F093-36543-00010 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 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.16 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.17 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.18 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.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 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.21 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.22 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.23 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 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.8 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.9 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(1)][326 IAC 2-8-5(a)(1)]

C.10 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.11 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.12 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.13 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 response steps taken.

C.14 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.15 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.16 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) 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.

Stratospheric Ozone Protection

C.17 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:

(a) Powder Coating Operations, including:

(1) One (1) Continuous Powder Coating System, identified as the Mainlines Powder Coat System, for applying coatings to metal pressure vessels (aka tanks), consisting of one (1) electrostatic powder paint booth, identified as PB1, approved for construction in 2011, equipped with two (2) electrostatic hand-held spray applicators, with a maximum throughput capacity of forty-five (45) tanks per hour and a maximum material usage of two and sixty-three hundredths (2.63) pounds of powder paint per tank, using cartridge filters to control particulate emissions, and exhausting to two (2) stacks PB1-S1 and PB1-S2; and

(2) One (1) Batch Powder Coating System, identified as the Big Tank Lines Powder Coat System, for applying coatings to metal pressure vessels (aka tanks), including one (1) batch down draft electrostatic powder paint booth, identified as PB2, approved for construction in 2011, equipped with two (2) electrostatic hand-held spray applicators for color changes. Only one (1) electrostatic hand-held spray applicator being used at a time, with a maximum throughput capacity of one and thirty-three hundredths (1.33) tanks per hour and a maximum material usage of nine and eighty-seven hundredths (9.87) pounds of powder paint per tank, using cartridge filters to control particulate emissions, and exhausting to stacks PB2-S1 and PB2-S2.

(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 PSD PM Limits [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

(a) PM emissions from electrostatic powder paint booth PB1 shall not exceed two and ninety-six hundredths (2.96) pounds of PM per hour; and

(b) PM emissions from electrostatic powder paint booth PB2 shall not exceed thirty-three hundredths (0.33) pounds of PM per hour.

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than two hundred fifty (250) tons per twelve (12) consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.2 FESOP PM10 and PM2.5 Limits [326 IAC 2-8-4][326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following limits:

(a) PM10 emissions from electrostatic powder paint booth PB1 shall not exceed two and ninety-six hundredths (2.96) pounds of PM10 per hour;

(b) PM2.5 emissions from electrostatic powder paint booth PB1 shall not exceed two and ninety-six hundredths (2.96) pounds of PM2.5 per hour;

(c) PM10 emissions from electrostatic powder paint booth PB2 shall not exceed thirty-three hundredths (0.33) pounds of PM10 per hour; and

(d) PM2.5 emissions from electrostatic powder paint booth PB2 shall not exceed thirty-three hundredths (0.33) pounds of PM2.5 per hour.

Compliance with these limits, combined with the potential to emit PM10 and PM2.5, from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5, to less than one hundred (100) tons per twelve (12) consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

D.1.3 Particulate Limits [326 IAC 6-3-2(e)]

Pursuant to 326 IAC 6-3-2(e) (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the each of the processes listed in the table below shall not exceed the corresponding pound per hour limitations, as follows:

Emission Unit	Process Weight Rate		Allowable Emission Rate (lb/hour)
	(lbs/hr)	(tons/hr)	
electrostatic powder paint booth PB1 (per each spray gun)	9,753	4.88	11.85
electrostatic powder paint booth PB2	19,510	9.75	18.86

These limitations were calculated as follows:

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

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

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and its control device. 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.1.5 Particulate Control (PM, PM10, and PM2.5)

In order to assure compliance with Conditions D.1.1, D.1.2, and D.1.3, particulate from electrostatic powder paint booths PB1 and PB2 shall be controlled by dry particulate filters and the Permittee shall operate the control device(s) in accordance with manufacturer's specifications.

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

D.1.6 Monitoring

Daily inspections shall be performed to verify the placement, integrity, and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from each of the electrostatic powder paint booths while the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.7 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.6, the Permittee shall maintain a log of weekly overspray observations and daily inspections.

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Pneumatic Blasting

(b) One (1) pneumatic blasting operation, identified as SB1, constructed in 2001, and approved for modification in 2011, equipped with a dust collector for particulate control, using steel shot or glass shot media, and exhausting to one (1) stack, identified as SB-01 as follows:

(1) the steel shot media chamber, constructed in 2001, maximum throughput of 25,723 lbs per hour when using steel shots.

(2) the glass shot media chamber, approved for construction in 2011, maximum throughput of 20,400 lbs/hr when using glass shots.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(d) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(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.2.1 PSD PM Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

(a) PM emissions from the pneumatic blasting operation (SB1) shall not exceed one and twenty-four hundredths (1.24) pounds per hour.

(b) PM emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed three and two hundredths (3.02) pounds per hour.

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than two hundred fifty (250) tons per twelve (12) consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.2.2 FESOP PM10 and PM2.5 Limits [326 IAC 2-8-4][326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following limits:

(1) PM10 emissions from the pneumatic blasting operation (SB1) shall not exceed one and seven hundredths (1.07) pounds per hour; and

(2) PM2.5 emissions from the pneumatic blasting operation shall not exceed one and seven hundredths (1.07) pounds per hour.

(3) PM10 emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed two and fifty-nine hundredths (2.59) pounds per hour; and

(4) PM2.5 emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed two and fifty-nine hundredths (2.59) pounds per hour.

Compliance with these limits, combined with the potential to emit PM10 and PM2.5, from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5, to less than one hundred (100) tons per twelve (12) consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

D.2.3 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the pneumatic blasting operation, identified as SB1, shall not exceed twenty-two and seventy hundredths (22.70) pounds per hour when blasting steel media at a process weight rate of twelve and eighty-six hundredths (12.86) tons per hour (or 25,723 lbs/hr).

(b) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the pneumatic blasting operation, identified as SB1, shall not exceed 19.43 pounds per hour when blasting glass media at a process weight rate of 10.20 tons per hour (or 20,400 lbs/hr).

The pound per hour limitation was calculated as follows:

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

(c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the overhead monorail descaling system, identified as SB-02, shall not exceed fifty-seven and thirty-seven hundredths (57.37) pounds per hour when operating at a process weight rate of one hundred and eighty (180.00) tons per hour (or 360,000 lbs/hr). The pound per hour limitation was calculated as follows:

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

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

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

A Preventive Maintenance Plan is required for these facilities and their associated 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

(a) In order to assure compliance with Conditions D.2.1, D.2.2, and D.2.3, the dust collectors for particulate control shall be in operation and control emissions from the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02), at all

times the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02) are in operation.

(b) In the event that bag failure is observed in a multi-compartment dust collector, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.2.6 Testing Requirements [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.2.1 and D.2.2, no later than 180 days after startup of the overhead monorail descaling system, identified as SB-02, the Permittee shall conduct PM, PM10, and PM2.5 testing on the dust collector, controlling SB-02, utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 includes filterable and condensable particulate matter.

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

D.2.7 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collectors used in conjunction with the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02), at least once per day when the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02), are in operation. When for any one reading, the pressure drops across the dust collectors are outside the normal range the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 3.0 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take a reasonable response shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.2.8 Broken or Failed Bag Detection

(a) For a single compartment dust collector controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment dust collector controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces, or triboflows.

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

D.2.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.7, the Permittee shall maintain daily records of the pressure drops across the dust collectors controlling the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02). The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the process did not operate that day).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities

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

(1) One (1), five (5) stage washer, serving the Mainlines Powder Coat System, approved for construction in 2011, equipped with two (2) natural gas-fired burners, identified as WS-1 and WS-3, with a maximum heat input capacity of one and thirty-five hundredths (1.35) MMBtu/hr, each, uncontrolled, and exhausting to stacks WS-S1, WH-S1, WS-S3 and WH-S3, respectively; and

(2) One (1) power washer, serving the Big Tank Lines Powder Coat System, constructed in 2012, equipped with one (1) natural gas-fired burner, identified as PW1, with a maximum heat input capacity of forty hundredths (0.40) MMBtu/hr, uncontrolled, and exhausting to stack PW-S1;

(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.3.1 Particulate Emissions [326 IAC 6-2-4]

(1) Pursuant to 326 IAC 6-2-4(a) (Particulate Emissions for Source of Indirect Heating), the total particulate emissions from the three (3) natural gas-fired burners, identified as WS-1, WS-3, and PW1, shall not exceed six tenths (0.6) pounds per million British thermal units (lb/MMBtu) heat input, each.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities

(c) Degreasing operations

(3) Cold cleaner degreasing operation consisting of one (1) parts washer and using less than 145 gallons per year of solvent.

(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.4.1 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), the Permittee shall:

(a) Ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover.

(2) Equip the degreaser with a device for draining cleaned parts.

(3) Close the degreaser cover whenever parts are not being handled in the degreaser.

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in closed containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

D.4.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)]

D.4.3 Record Keeping Requirements

(a) To document the compliance status with Condition D.4.2, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase.

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION E.1 NESHAP

Emissions Unit Description:

Pneumatic Blasting, and Metal Cutting, Machining, and Welding.

(b) One (1) pneumatic blasting operation, identified as SB1, constructed in 2001, and approved for modification in 2011, equipped with a dust collector for particulate control, using steel shot or glass shot media, and exhausting to one (1) stack, identified as SB-01 as follows:

(1) the steel shot media chamber, constructed in 2001, maximum throughput of 25,723 lbs per hour when using steel shots.

(2) the glass shot media chamber, approved for construction in 2011, maximum throughput of 20,400 lbs/hr when using glass shots.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(c) One (1) metal oxyfuel/plasma cutting machine, identified as PC-1, constructed in 2005, used for cutting mild steel, aluminum, and stainless steel, controlled by six (6) cartridge filters for particulate control, and exhausting inside the building or to stack PC-1;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal oxyfuel/plasma cutting machine is considered an affected facility.

(d) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

Insignificant Activities

(d) One (1) multi-gas laser trimmer, with a maximum cutting capacity of thirteen (13) pounds of steel per hour, controlled by a baghouse with a design grain loading of less than or equal to three one-hundredths (0.03) grains per actual cubic foot and an air flow rate less than four thousand (4000) cubic feet per minute (cfm), and exhausting inside the building or to stack L-01;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the multi-gas laser trimmer is considered an affected facility.

(e) One (1) Whitney cutting machine with PM10 emissions less than twenty-five (25) pounds per day, and exhausting to stack WY-01;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility;

(f) One (1) plate burner with PM10 emissions less than twenty-five (25) pounds per day;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plate burner is considered an affected facility.

(g) Four (4) plasma/oxy-fuel head burners with PM10 emissions less than twenty-five (25) pounds per day;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility.

(h) Handheld plasma/oxy-fuel torches with PM10 emissions less than twenty-five (25) pounds per day;

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the metal machining operations are considered an affected facility.

(j) The following equipment related to manufacturing activities resulting in the emission of HAPs below insignificant emission levels: brazing equipment, cutting torches, soldering equipment, and welding equipment;

(1) Welding operations with PM10 emission less than twenty-five (25) pounds per day.

(2) Gas Metal Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 46,550 lbs/yr.

(3) Submerged Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 234,380 lbs/yr.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the welding operations are considered affected facilities.

(k) One (1) plasma shell hole cutting machine, identified as PSB-1, located on the Propane/Air tank line, approved in 2016 for construction, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plasma cutting machine is considered an affected facility.

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

E.1.1 General Provisions Relating to the National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart XXXXXX.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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

E.1.2 Area Source Standards for Nine Metal Fabrication and Finishing Source Categories NESHAP [40 CFR 63, Subpart XXXXXX]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart XXXXXX (included as Attachment A to the operating permit), for the emission unit(s) listed above:

(1) 63.11514;
(2) 63.11515;
(3) 63.11516(a), (b), (f);
(4) 63.11517;
(5) 63.11519;
(6) 63.11521;
(7) 63.11522;
(8) 63.11523

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

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Manchester Tank and Equipment Company
Source Address: 905 X Street, Bedford, Indiana 47421
FESOP Permit No.: F093-36543-00010

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: Manchester Tank and Equipment Company
Source Address: 905 X Street, Bedford, Indiana 47421
FESOP Permit No.: F093-36543-00010

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

Source Name: Manchester Tank and Equipment Company
Source Address: 905 X Street, Bedford, Indiana 47421
FESOP Permit No.: F093-36543-00010

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 "No 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:	

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:	**Manchester Tank and Equipment Company**
Source Location:	**905 X Street, Bedford, Indiana 47421**
County:	**Lawrence**
SIC Code:	**3443 (Fabricated Plate Work (Boiler Shops))**
Operation Permit No.:	**F093-36543-00010**
Operation Permit Issuance Date:	**June 17, 2016**
Significant Permit Revision No.:	**093-37276-00010**
Permit Reviewer:	**Joshua Levering**

On June 6, 2016, the Office of Air Quality (OAQ) received an application from Manchester Tank and Equipment Company related to a modification to an existing stationary metal pressure vessel manufacturing plant.

Existing Approvals

The source was issued FESOP Renewal No. F093-36543-00010 on June 17, 2016. The source has since received Interim Significant Permit Revision No. 093-37276i-00010, issued on July 26, 2016.

County Attainment Status

The source is located in Lawrence County.

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

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

(a) Ozone Standards

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

(b) $PM_{2.5}$

Lawrence County has been classified as attainment for $PM_{2.5}$. Therefore, direct $PM_{2.5}$, 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
Lawrence County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

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.

Greenhouse Gas (GHG) Emissions

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 GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

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 F093-36543-00010, issued on June 17, 2016.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	Total HAPs	Worst Single HAP
Aerosol Coating	0.55	0.55	0.55	0	0	2.15	0	1.08	0.49 (xylenes)
Powder Coating Operation (PB1)(1)	12.97	12.97	12.97	0	0	0	0	0	NA
Powder Coating Operation (PB2) (1)	1.44	1.44	1.44	0	0	0	0	0	NA
Blasting Operation (SB1) (1)	5.45	4.69	4.69	0	0	0	0	0	NA
Insignificant Activities									
Plasma Machine	21.99	21.99	21.99	0	0	0	0	1.41	0.31 (Manganese)
Cutting Operations	10.17	10.17	10.17	0	0	0	0	1.23	0.65 (Chromium)
Welding	0.90	0.90	0.90	0	0	0	0	0.54	0.54 (Manganese)
Natural Gas Combustion	0.15	0.60	0.60	0.05	7.90	0.43	6.64	0.15	0.14 (Hexane)
Degreasing Operations	0	0	0	0	0	1.47	0	0	NA
Total PTE of Entire Source	**53.62**	**53.31**	**53.31**	**0.05**	**7.90**	**4.06**	**6.64**	**3.71**	**0.98 (Manganese)**
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	NA	NA

negl. = negligible NA = not applicable

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

(1) Limited PTE based upon pound per hour emission limitations to comply with 326 IAC 2-8 (FESOP). See Appendix A, for more details. The remaining emissions represent unlimited and uncontrolled PTE.

(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 unlimited potential to emit HAPs is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Manchester Tank and Equipment Company on June 6, 2016, relating to the construction of a new production line to produce both propane and air tanks.

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

(a) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(b) The following equipment related to manufacturing activities resulting in the emission of HAPs below insignificant emission levels: brazing equipment, cutting torches, soldering equipment, and welding equipment;

(1) Gas Metal Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 46,550 lbs/yr.

(2) Submerged Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 234,380 lbs/yr.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the welding operations are considered affected facilities.

(c) One (1) plasma shell hole cutting machine, identified as PSB-1, located on the Propane/Air tank line, approved in 2016 for construction, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plasma cutting machine is considered an affected facility.

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 is used to determine the appropriate permit level under 326 IAC 2-8-11.1 (Permit Revisions). This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	Total HAPs	Worst Single HAP
Overhead Monorail Descaling System (Shotblaster)	293.46	252.38	252.38	--	--	--	--	--	--
Shell Hole Plasma Burner (Cutting)	0.45	0.45	0.45	--	--	--	--	0.05	0.03 Chromium
Additional Gas Metal Arc & Submerged Arc Welding (L-50, L-56, and L-61)	0.73	0.73	0.73	--	--	--	--	0.45	0.45 Manganese
Total PTE of Proposed Revision	**294.64**	**253.55**	**253.55**	**--**	**--**	**--**	**--**	**0.50**	**0.45 Manganese**
negl. = negligible									

Pursuant to 326 IAC 2-8-11.1(f)(1)(E), 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 the construction of new emission units with potential to emit greater than or equal to twenty-five (25) tons per year of the following pollutants:

(i) PM, PM10, or direct PM2.5.

PTE of the Entire Source After Issuance of the FESOP Revision

The table below summarizes the potential to emit of the entire source with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)								
	PM	PM10*	PM2.5**	SO_2	NOx	VOC	CO	Total HAPs	Worst Single HAP
Aerosol Coating	0.55	0.55	0.55	0	0	2.15	0	1.08	0.49 (xylenes)
Powder Coating Operation (PB1)(1)	12.97	12.97	12.97	0	0	0	0	0	NA
Powder Coating Operation (PB2) (1)	1.44	1.44	1.44	0	0	0	0	0	NA
Blasting Operation (SB1) (1)	5.45	4.69	4.69	0	0	0	0	0	NA
Monorail Descaling (SB-02) (1)	**13.23**	**11.34**	**11.34**	**0**	**0**	**0**	**0**	**0**	**NA**
Insignificant Activities									
Plasma Machine	21.99	21.99	21.99	0	0	0	0	~~1.41~~ **0.71**	0.31 (Manganese)
Cutting Operations	~~10.17~~ **10.62**	~~10.17~~ **10.62**	~~10.17~~ **10.62**	0	0	0	0	~~1.23~~ **1.28**	~~0.65~~ **0.68** (Chromium)
Welding	~~0.90~~ **1.63**	~~0.90~~ **1.63**	~~0.90~~ **1.63**	0	0	0	0	~~0.54~~ **0.99**	~~0.54~~ **0.99** (Manganese)
Natural Gas Combustion	0.15	0.60	0.60	0.05	7.90	0.43	6.64	0.15	0.14 (Hexane)
Degreasing Operations	0	0	0	0	0	1.47	0	0	NA
Total PTE of Entire Source	~~53.62~~ **68.02**	~~53.31~~ **65.83**	~~53.31~~ **65.83**	0.05	7.90	4.06	6.64	~~3.71~~ **4.21**	~~0.98~~ **1.43** (Manganese)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA

negl. = negligible
*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".
** $PM_{2.5}$ listed is direct $PM_{2.5}$.
(1) Limited PTE based upon pound per hour emission limitations to comply with 326 IAC 2-8 (FESOP). See below and Appendix A, for more details. The remaining emissions represent unlimited and uncontrolled PTE.

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. 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 to accommodate the Proposed Revision (tons/year)								
	PM	PM10*	PM2.5**	SO_2	NOx	VOC	CO	Total HAPs	Worst Single HAP
Aerosol Coating	0.55	0.55	0.55	0	0	2.15	0	1.08	0.49 (xylenes)
Powder Coating Operation (PB1)(1)	12.97	12.97	12.97	0	0	0	0	0	NA
Powder Coating Operation (PB2) (1)	1.44	1.44	1.44	0	0	0	0	0	NA
Blasting Operation (SB1) (1)	5.45	4.69	4.69	0	0	0	0	0	NA
Monorail Descaling (SB-02) (1)	13.23	11.34	11.34	0	0	0	0	0	NA
Insignificant Activities									
Plasma Machine	21.99	21.99	21.99	0	0	0	0	0.71	0.31 (Manganese)
Cutting Operations	10.62	10.62	10.62	0	0	0	0	1.28	0.68 (Chromium)
Welding	1.63	1.63	1.63	0	0	0	0	0.99	0.99 (Manganese)
Natural Gas Combustion	0.15	0.60	0.60	0.05	7.90	0.43	6.64	0.15	0.14 (Hexane)
Degreasing Operations	0	0	0	0	0	1.47	0	0	NA
Total PTE of Entire Source	**68.02**	**65.83**	**65.83**	**0.05**	**7.90**	**4.06**	**6.64**	**4.21**	**1.43 (Manganese)**
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA

negl. = negligible
*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".
** $PM_{2.5}$ listed is direct $PM_{2.5}$.
(1) Limited PTE based upon pound per hour emission limitations to comply with 326 IAC 2-8 (FESOP). See below and Appendix A, for more details. The remaining emissions represent unlimited and uncontrolled PTE.

(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 and HAPs 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).

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the source shall comply with the following:

(1) PM10 emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed two and fifty-nine hundredths (2.59) pounds of PM10 per hour; and

(2) PM2.5 emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed two and fifty-nine hundredths (2.59) pounds of PM2.5 per hour.

Compliance with these limits, combined with the potential to emit PM10 and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5 to less than 100 tons per twelve (12) consecutive month period, each, and shall render the

requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), not applicable.

(b) PSD Minor Source – PM

This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit PM 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.

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the source shall comply with the following:

(1) PM emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed three and two hundredths (3.02) pounds of PM per hour.

Compliance with this limit, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 250 tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

Federal Rule Applicability Determination

Due to the revision, federal rule applicability has been reviewed as follows:

(a) New Source Performance Standards (NSPS)

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

(b) National Emission Standards for Hazardous Air Pollutants (NESHAP)

(1) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX (326 IAC 20), because the source is primarily engaged in fabricated plate work, listed as one of the nine metal fabrication and finishing source categories in 40 CFR 63.11514, and because the dry abrasive blasting, machining, and welding/cutting operations, each, use, and/or affect materials, which contain or have the potential to emit metal fabrication or finishing metal HAPs (MFHAPs), defined to be the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead, in 40 CFR 63.11522, in concentrations above the thresholds specified in 40 CFR 63.11514(b).

The units subject to this rule include the following:

(A) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(B) The following equipment related to manufacturing activities resulting in the emission of HAPs below insignificant emission levels: brazing equipment, cutting torches, soldering equipment, and welding equipment;

(i) Gas Metal Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 46,550 lbs/yr.

(ii) Submerged Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 234,380 lbs/yr.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the welding operations are considered affected facilities.

(C) One (1) plasma shell hole cutting machine, identified as PSB-1, located on the Propane/Air tank line, approved in 2016 for construction, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plasma cutting machine is considered an affected facility.

Applicable portions of the NESHAP are the following:

(1) 40 CFR 63.11514;
(2) 40 CFR 63.11515;
(3) 40 CFR 63.11516(a), (b), (f);
(4) 40 CFR 63.11517;
(5) 40 CFR 63.11519;
(6) 40 CFR 63.11521;
(7) 40 CFR 63.11522;
(8) 40 CFR 63.11523

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1, apply to the source except as otherwise specified in 40 CFR 63, Subpart XXXXXX.

(2) There are no other National Emission Standards for Hazardous Air Pollutants (40 CFR Part 63), 326 IAC 14 and 326 IAC 20 included for this proposed revision.

(c) 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

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.

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.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

Pneumatic Blasting (Overhead Monorail Descaling System), Plasma Cutting, and Welding Operations

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

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the overhead monorail descaling system, identified as SB-02, shall not exceed fifty-seven and thirty-seven hundredths (57.37) pounds per hour when operating at a process weight rate of one hundred and eighty (180.00) tons per hour (or 360,000 lbs/hr). The pound per hour limitation was calculated as follows:

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

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Based on the calculations provided in Appendix A, the potential uncontrolled PM emission rate from the overhead monorail descaling system (SB-02) is one thousand four hundred and forty (1,440) pounds per hour, which is greater than the allowable rate of fifty-seven and thirty-seven hundredths (57.37) pounds of PM per hour.

Therefore, the dust collector, for particulate control shall be in operation at all times that the overhead monorail descaling system (SB-02) is in operation, in order to comply with this limit.

The potential to emit particulate matter (PM) from the plasma shell hole cutting machine and welding operations are each less than five hundred and fifty-one thousandths (0.551) pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), these units are exempt from particulate emission limitations for manufacturing processes.

Compliance Determination, Monitoring and Testing Requirements

(a) The compliance determination and monitoring requirements applicable to this proposed revision are as follows:

Emission Unit/Control	Operating Parameters	Frequency
Overhead Monorail Descaling System (SB-02)/Dust Collector	Pressure Drop	Once per day

(1) The dust collector, for particulate control shall be in operation and control emissions at all times that the overhead monorail descaling system (SB-02) is in operation.

These monitoring conditions are necessary because the dust collector for the overhead monorail descaling system (SB-02) must operate properly to ensure compliance with 326 IAC 2-8-4 (FESOP) and 326 IAC 6-3-2(e) (Particulate Emission Limitations).

(b) The testing requirements applicable to this proposed revision are as follows:

Testing Requirements				
Emission Unit	**Control Device**	**Pollutant**	**Timeframe for Testing**	**Frequency of Testing**
Overhead Monorail Descaling System	Dust Collector	PM, PM10, PM2.5	Not later than 180 days after initial startup	At least once every five (5) years from the date of the last valid compliance demonstration

These testing requirements are required in order to demonstrate compliance with the 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70 Permits) avoidance limits.

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:

(1) Sections A.2 and A.3 have been revised to include the proposed emissions units.

(2) Section D.2 has been revised to include the overhead monorail descaling system and its applicable requirements.

(3) Section D.2.6 has been changed to Parametric Monitoring and the Visible Emissions Notations requirements have been removed from the permit.

(4) Section E.1 has been revised to include applicable emissions units due to the proposed revision.

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:

***

(d) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

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:

***

(j) The following equipment related to manufacturing activities resulting in the emission of HAPs below insignificant emission levels: brazing equipment, cutting torches, soldering equipment, and welding equipment;

(1) Welding operations with PM10 emission less than twenty-five (25) pounds per day.

(2) Gas Metal Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 46,550 lbs/yr.

(3) Submerged Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 234,380 lbs/yr.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the ~~metal machining~~**welding** operations are considered ~~an~~ affected facilit**ies**~~y~~.

(k) One (1) plasma shell hole cutting machine, identified as PSB-1, located on the Propane/Air tank line, approved in 2016 for construction, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plasma cutting machine is considered an affected facility.

(~~k~~**l**) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;

(~~l~~**m**) Combustion source flame safety purging on startup;

(~~m~~**n**) Process vessel degassing and cleaning to prepare internal repairs;

(~~n~~**o**) Blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower;

(~~o~~**p**) Fork lift operations utilizing multiple forklifts with PM10 emissions less than twenty-five (25) pounds per day; and

(~~p~~**q**) Paved and unpaved roads and parking lots with public access.

***

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Pneumatic Blasting

(b) One (1) pneumatic blasting operation, identified as SB1, constructed in 2001, and approved for modification in 2011, equipped with a dust collector for particulate control, using steel shot or glass shot media, and exhausting to one (1) stack, identified as SB-01 as follows:

(1) the steel shot media chamber, constructed in 2001, maximum throughput of 25,723 lbs per hour when using steel shots.

(2) the glass shot media chamber, approved for construction in 2011, maximum throughput of 20,400 lbs/hr when using glass shots.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(d) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots,

using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

(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.2.1 PSD PM Limit [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

(a) PM emissions from the pneumatic blasting operation (SB1) shall not exceed one and twenty-four hundredths (1.24) pounds ~~of PM~~ per hour.

(b) PM emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed three and two hundredths (3.02) pounds per hour.

Compliance with ~~this~~ **these** limit**s**, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than two hundred fifty (250) tons per twelve (12) consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.2.2 FESOP PM10 and PM2.5 Limits [326 IAC 2-8-4][326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following limits:

(1) PM10 emissions from the pneumatic blasting operation (SB1) shall not exceed one and seven hundredths (1.07) pounds ~~of PM10~~ per hour; and

(2) PM2.5 emissions from the pneumatic blasting operation **(SB1)** shall not exceed one and seven hundredths (1.07) pounds ~~of PM2.5~~ per hour.

(3) PM10 emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed two and fifty-nine hundredths (2.59) pounds per hour; and

(4) PM2.5 emissions from the overhead monorail descaling system, identified as SB-02, shall not exceed two and fifty-nine hundredths (2.59) pounds per hour.

***

D.2.3 Particulate [326 IAC 6-3-2]

***

(c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the overhead monorail descaling system, identified as SB-02, shall not exceed fifty-seven and thirty-seven hundredths (57.37) pounds per hour when operating at a process weight rate of one hundred and eighty (180.00) tons per hour (or 360,000 lbs/hr). The pound per hour limitation was calculated as follows:

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

$E = 55.0\ P^{0.11} - 40$ **where E = rate of emission in pounds per hour and P = process weight rate in tons per hour**

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

A Preventive Maintenance Plan is required for ~~this facility~~ **these facilities** and ~~its~~ **their associated** control device**s**. 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

(a) In order to assure compliance with Conditions D.2.1, D.2.2, and D.2.3, the dust collector**s** for particulate control shall be in operation and control emissions from the pneumatic blasting operation (SB1) **and the overhead monorail descaling system (SB-02),** at all times the pneumatic blasting operation (SB1) **and the overhead monorail descaling system (SB-02)** ~~is~~ **are** in operation.

***

D.2.6 Testing Requirements [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.2.1 and D.2.2, no later than 180 days after startup of the overhead monorail descaling system, identified as SB-02, the Permittee shall conduct PM, PM10, and PM2.5 testing on the dust collector, controlling SB-02, utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 includes filterable and condensable particulate matter.

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

~~D.2.6 Visible Emissions Notations~~

~~(a) Weekly visible emission notations of the pneumatic blasting operation (SB1) stack exhaust (stack SB-01) shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.~~

~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~

~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~

~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~

~~(e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.~~

D.2.7 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collectors used in conjunction with the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02), at least once per day when the pneumatic blasting operation (SB1) and the overhead monorail descaling system (SB-02), are in operation. When for any one reading, the pressure drops across the dust collectors are outside the normal range the Permittee shall take a reasonable response. The normal range for these units is a

pressure drop between 3.0 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take a reasonable response shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

***

D.2.~~7~~**8** Broken or Failed Bag Detection ~~(Mandatory for operations with a baghouse)~~

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

D.2.~~8~~**9** Record Keeping Requirements

(a) To document the compliance status with Condition D.2.~~6~~**7**, the Permittee shall maintain ~~weekly~~ **daily** records of the ~~visible emission notations of~~ **pressure drops across the dust collectors controlling** the pneumatic blasting operation (SB1) ~~stack exhaust~~ **and the overhead monorail descaling system (SB-02)**. The Permittee shall include in its ~~weekly~~ **daily** record when a ~~visible emission notation~~ **pressure drop reading** is not taken and the reason for the lack of a ~~visible emission notation~~ **pressure drop reading**, (~~i.e.~~ **e.g.,** the process did not operate that day).

***

SECTION E.1 NESHAP

Emissions Unit Description:

Pneumatic Blasting, and Metal Cutting, Machining, and Welding.
***

(d) One (1) overhead monorail descaling system, identified as SB-02, approved in 2016 for construction, with a maximum throughput of 360,000 pounds per hour using steel shots, using a dust collector as control, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the pneumatic blasting operation is considered an affected facility.

Insignificant Activities
***

(j) The following equipment related to manufacturing activities resulting in the emission of HAPs below insignificant emission levels: brazing equipment, cutting torches, soldering equipment, and welding equipment;

(1) Welding operations with PM10 emission less than twenty-five (25) pounds per day.

(2) Gas Metal Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 46,550 lbs/yr.

(3) Submerged Arc Welding operations, approved in 2016 for construction, with an annual weld wire usage of 234,380 lbs/yr.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the welding operations are considered ~~an~~ affected facilit**ies**~~y~~.

(k) One (1) plasma shell hole cutting machine, identified as PSB-1, located on the Propane/Air tank line, approved in 2016 for construction, and exhausting indoors.

Under 40 CFR 63, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, the plasma cutting machine is considered an affected facility.

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

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on June 6, 2016.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 093-37276-00010. 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 Joshua Levering at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6543 or toll free at 1-800-451-6027 extension 4-6543.

(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: Emissions Calculations
Emission Summary

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Uncontrolled Potential Emissions (tons/year)

Category	Pollutant	Surface Coating			*Blasting		Monorail Descaling (SB-02)	Plasma Machine	Cutting Operations	Welding	Natural Gas Combustion	Degrease Operations	**Fugitvie Road	TOTAL
		Aerosol Coating	Powder Coating PB-1	Powder Coating PB-2	Steel	glass								
Criteria Pollutants	PM	0.55	129.67	14.41	109.02	39.42	293.46	21.99	10.62	1.63	0.15	-	15.06	**472.48**
	PM10	0.55	129.67	14.41	93.76	33.90	252.38	21.99	10.62	1.63	0.60	-	3.96	**431.84**
	PM2.5	0.55	129.67	14.41	93.76	33.90	252.38	21.99	10.62	1.63	0.60	-	0.42	**431.84**
	SO2	0	0	0	0	0	0	0	0	0	0.05	-	0	**0.05**
	NOx	0	0	0	0	0	0	0	0	0	7.90	-	0	**7.90**
	VOC	2.15	0	0	0	0	0	0	0	0	0.43	1.47	0	**4.06**
	CO	0	0	0	0	0	0	0	0	0	6.64	-	0	**6.64**
Hazardous Air Pollutants	2-Propoxyethanol	0.05	0	0	0	0	0	0	0	0	0	-	0	**0.05**
	Benzene	0	0	0	0	0	0	0	0	0	1.66E-04	-	0	**0.00**
	Dichlorobenzene	0	0	0	0	0	0	0	0	0	9.48E-05	-	0	**0.00**
	Formaldehyde	0	0	0	0	0	0	0	0	0	5.93E-03	-	0	**0.01**
	Glycol Ether EP	0.05	0	0	0	0	0	0	0	0	0	-	0	**0.05**
	Hexane	0	0	0	0	0	0	0	0	0	0.14	-	0	**0.14**
	Toluene	0.49	0	0	0	0	0	0	0	0	2.69E-04	-	0	**0.49**
	Xylenes	0.49	0	0	0	0	0	0	0	0	0	-	0	**0.49**
	Antimony	0	0	0	0	0	0	3.53E-04	0	0	0	-	0	**0.00**
	Arsenic	0	0	0	0	0	0	6.75E-03	0	0	0	-	0	**0.01**
	Cadmium	0	0	0	0	0	0	5.17E-05	0	0	8.69E-05	-	0	**0.00**
	Chromium	0	0	0	0	0	0	0.26	0.68	4.36E-03	1.11E-04	-	0	**0.94**
	Cobalt	0	0	0	0	0	0	0.00E+00	0	1.68E-06	0	-	0	**0.00**
	Lead	0	0	0	0	0	0	5.12E-04	0	0	3.95E-05	-	0	**0.00**
	Manganese	0	0	0	0	0	0	0.31	0.14	0.99	3.00E-05	-	0	**1.43**
	Nickel	0	0	0	0	0	0	1.34E-01	0.47	3.10E-03	1.66E-04	-	0	**0.60**
	Selenium	0	0	0	0	0	0	2.40E-04	0	0	0	-	0	**0.00**
	HAP Totals	**1.08**	**0**	**0**	**0**	**0**	**0**	**0.71**	**1.28**	**0.99**	**0.15**	**0**	**0**	**4.21**
													Worse Case HAP	**1.43**

Manganese

*NOTE: The Potential to Emit from this unit is 109.02 (ton/yr) of PM and 93.76 (tons/year of PM10) without controls when blasting steel media. The Unit can only disperse one media at a time due to the design of the system. Since source does not know the percentage of time that each media will be used, the worst case scenario is used- steel shots are used 100% of the time to calculate particulate PTE

**Fugitive emissions are not included towards the determination of PSD, emission offset, and Part 70 Permit applicability.

Appendix A: Emissions Calculations
Emission Summary

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Limited Potential Emissions (tons/year)

Category	Pollutant	Suface Coating: Aerosol Coating	Suface Coating: Powder Coating PB-1 (1)	Suface Coating: Powder Coating PB-2 (1)	Blasting Operation (1)	Monorail Descaling	Plasma Machine	Cutting Operations	Welding	Natural Gas Combustion	Degrease Operations	**Fugitvie Road	**TOTAL**
Criteria Pollutants	PM	0.55	12.97	1.44	5.45	13.23	21.99	10.62	1.63	0.15	-	15.06	**68.02**
	PM10	0.55	12.97	1.44	4.69	11.34	21.99	10.62	1.63	0.60	-	3.96	**65.83**
	PM2.5	0.55	12.97	1.44	4.69	11.34	21.99	10.62	1.63	0.60	-	0.42	**65.83**
	SO2	0	0	0	0	0	0	0	0	0.05	-	0	**0.05**
	NOx	0	0	0	0	0	0	0	0	7.90	-	0	**7.90**
	VOC	2.15	0	0	0	0	0	0	0	0.43	1.47	0	**4.06**
	CO	0.00	0	0	0	0	0	0	0	6.64	-	0	**6.64**
Hazardous Air Pollutants	2-Propoxyethanol	0.05	0	0	0	0	0	0	0	0	-	0	**0.05**
	Benzene	0	0	0	0	0	0	0	0	1.66E-04	-	0	**0.00**
	Dichlorobenzene	0	0	0	0	0	0	0	0	9.48E-05	-	0	**0.00**
	Formaldehyde	0	0	0	0	0	0	0	0	5.93E-03	-	0	**0.01**
	Glycol Ether EP	0.05	0	0	0	0	0	0	0	0	-	0	**0.05**
	Hexane	0	0	0	0	0	0	0	0	0.14	-	0	**0.14**
	Toluene	0.49	0	0	0	0	0	0	0	2.69E-04	-	0	**0.49**
	Xylenes	0.49	0	0	0	0	0	0	0	0	-	0	**0.49**
	Antimony	0	0	0	0	0	3.53E-04	0	0	0	-	0	**0.00**
	Arsenic	0	0	0	0	0	6.75E-03	0	0	0	-	0	**0.01**
	Cadmium	0	0	0	0	0	5.17E-05	0	0	8.69E-05	-	0	**0.00**
	Chromium	0	0	0	0	0	0.26	0.68	4.36E-03	1.11E-04	-	0	**0.94**
	Cobalt	0	0	0	0	0	0.00E+00	0	1.68E-06	0	-	0	**0.00**
	Lead	0	0	0	0	0	5.12E-04	0	0	3.95E-05	-	0	**0.00**
	Manganese	0	0	0	0	0	0.31	0.14	0.99	3.00E-05	-	0	**1.43**
	Nickel	0	0	0	0	0	1.34E-01	0.47	3.10E-03	1.66E-04	-	0	**0.60**
	Selenium	0	0	0	0	0	2.40E-04	0	0	0	-	0	**0.00**
	HAP Totals	**1.08**	**0**	**0**	**0**	**0**	**0.71**	**1.28**	**0.99**	**0.15**	**0**	**0**	**4.21**
												Worse Case HAP	**1.43** **Manganese**

(1) Limited PTE based upon a pound per hour emission limitation to comply with 326 IAC 2-8 (FESOP). These emissions represent the PTE after control, with a minimum control efficiency of 90% for Coating and 95% for Blasting. The remaining emissions represent unlimited and uncontrolled PTE.

**Fugitive emissions are not included towards the determination of PSD, emission offset, and Part 70 Permit applicability.

Appendix A: Emissions Calculations
Modification Summary

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

Uncontrolled Potential Emissions (tons/year)					
		Overhead Monorail Descaling System (Shotblaster, SB-02)	Shell Hole Plasma Burner (Cutting Operations)	Additional Gas Metal Arc & Submerged Arc Welding (L-50, L-56, and L-61)	TOTALS
Category	Pollutant				
Criteria Pollutants	PM	293.46	0.45	0.73	**294.64**
	PM10	252.38	0.45	0.73	**253.55**
	PM2.5	252.38	0.45	0.73	**253.55**
	SO2	0	0	0	**0.0**
	NOx	0	0	0	**0.0**
	VOC	0	0	0	**0.0**
	CO	0	0	0	**0.0**
HAPs	Antimony	0	0	0	**0.0**
	Arsenic	0	0	0	**0.0**
	Cadmium	0	0	0	**0.0**
	Chromium	0	0.03	1.40E-03	**0.03**
	Cobalt	0	0	0	**0.00**
	Lead	0	0	0	**0.0**
	Manganese	0	0.01	0.45	**0.45**
	Nickel	0	0.02	1.40E-03	**0.02**
	Selenium	0	0	0	**0.0**
	HAP Totals	0.00	0.05	0.45	**0.50**

Controlled Potential Emissions (tons/year)					
		Overhead Monorail Descaling System (Shotblaster)	Shell Hole Plasma Burner (Cutting Operations)	Additional Gas Metal Arc & Submerged Arc Welding (L-50, L-56, and L-61)	TOTALS
Category	Pollutant				
Criteria Pollutants	PM	0.03	0.45	0.73	**1.21**
	PM10	0.03	0.45	0.73	**1.20**
	PM2.5	0.03	0.45	0.73	**1.20**
	SO2	0	0	0	**0.00**
	NOx	0	0	0	**0.00**
	VOC	0	0	0	**0.00**
	CO	0	0	0	**0.00**
HAPs	Antimony	0	0	0	**0.00**
	Arsenic	0	0	0	**0.00**
	Cadmium	0	0	0	**0.00**
	Chromium	0	0.03	1.40E-03	**0.03**
	Cobalt	0	0	0	**0.00**
	Lead	0	0	0	**0.00**
	Manganese	0	0.01	0.45	**0.45**
	Nickel	0	0.02	1.40E-03	**0.02**
	Selenium	0	0	0	**0.00**
	HAP Totals	0	0.05	0.45	**0.50**

Appendix A: Emissions Calculations
VOC and Particulate Emissions
From the Surface Coating Operations
Aerosol Paint Use for Touch-Up

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water and/or exempt solvents	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Material usage (gal/yr)	Material usage (gal/hr)	Potential Material Usage (gal/day)	Material Usage (lb/hr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential to Emit VOC (lbs/hr)	Potential to Emit VOC (lbs/day)	*Actual VOC (lb/day)	Potential to Emit VOC (tons/year)	*Actual VOC (tons/yr)	Potential to Emit Particulate (tons/yr)	lb VOC/gal solids	Transfer Efficiency
Touch Up Paint	6.80	51.90%	3.00%	48.90%	na	na	216	0.11	2.62	0.74	3.33	3.33	0.36	8.72	2.91	1.59	0.36	0.55	na	65%
20-128A Dark Gray Primer	9.50	82.00%	34.65%	47.35%	35.16%	52.68%				1.04	6.94	4.50	0.49	11.80	3.93	2.15	0.49	0.29	na	65%
Hi-Tech Safety Yellow	7.51	62.60%	17.30%	45.30%	na	20.00%				0.82	3.40	3.40	0.37	8.92	2.97	1.63	0.37	0.47	17.00	65%
State Potential Emissions			**Add worst case coating to all solvents**							**Total "Worst-Case" Potential to Emit (tons/yr)**					**Uncontrolled:**	**2.15**	**0.49**	**0.55**		

NOTES

na - not available

(1) Material usage (gal/yr), provided by the source, is based on an eight (8) hour day and 247 days per year (or 1976 hrs/yr).
Data taken from the opsEnvironmental™ (Software) Paint Usage Report, from 1/1/10 - 9/1/10, was utilized to determine paint usage. Eight months usage was extrapolated to 12 months: Paint usage/8 months * 12/months
Emissions were calculated using the combined max material usage and the "worst-case" coating.

(2) The aerosol spray paint operation, using hand-held aerosol cans for touch-up purposes only, has a transfer efficiency of 65%. This operation is uncontrolled.

METHODOLOGY

Density (lb/gal) = Specific gravity * 8.34 lbs/gal (Density of water), or as-supplied information obtained from the coating manufacturer.
Material usage (gal/hr) = Material usage (gal/yr) / (8 hrs/day * 247 days/yr)
Potential Usage (gal/day) = Material usage (gal/hr) * 24 hrs/day
Material Usage (lb/hr) = Material usage (gal/hr) * Density (Lb/Gal)
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 to Emit VOC (pounds per hour) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential to Emit VOC (pounds per day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential to Emit 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)
Potential to Emit Particulate (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-Case" Potential to Emit (tons/yr) = MAX(all coatings used) + SUM(solvents used)
*Actual VOC (pounds per day) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) *8hrs
**Actual VOC (tons per year) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (2920 hr/yr) * (1 ton/2000 lbs)

Appendix A: Emission Calculations
HAP Emission Calculations
From the Surface Coating Operations
Aerosol Use

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

Material	Density (Lb/Gal)	Material usage[(1)] (gal/hr)	Weight % Toluene	Weight % Xylene	Weight % 2-Propoxyethanol	Weight % Glycol Ether EP*	Potential to Emit Toluene (ton/yr)	Potential to Emit Xylene (ton/yr)	Potential to Emit 2-Propoxyethanol (ton/yr)	Potential to Emit Glycol Ether* EP (ton/yr)
Touch Up Paint	6.80	0.11	15.00%	15.00%	0%	0%	4.88E-01	4.88E-01	0	0
20-128A Dark Gray Primer	9.50		0%	0%	1.20%	0%	0	0	5.46E-02	0
Hi-Tech Safety Yellow	7.51		11.27%	0%	0%	1.47%	4.05E-01	0	0	5.28E-02
"Worst-case" Total Potential to Emit (tons/yr)						**Individual HAPs:**	**0.49**	**0.49**	**0.05**	**0.05**
						Combined HAPs:	**1.08**			

NOTES

(1) Material usage (gal/hr), taken from the previous VOC and Particulate Emissions page of this Appendix.

*Glycol Ether EP is also known as Propyl Cellusolve.

METHODOLOGY

Potential to Emit HAPS (tons/yr) = Density (lb/gal) * Material usage (gal/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs
"Worst-case" Total Potential to Emit Individual HAPs (tons/yr) = MAX(Individual HAPs emissions (tons/yr))
"Worst-case" Total Potential to Emit Combined HAPs (tons/yr) = SUM("Worst-case" Total Individual HAPs emissions (tons/yr))

Appendix A: Emissions Calculations
Particulate (PM/PM10/PM2.5) Emissions
Mainlines Powder Coating Operation

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Emission Unit	Weight % Solids	Maximum Material Usage (lbs/unit)	Maximum Throughput Capacity (units/hr)	Maximum Material Usage (lbs/hr)	Transfer Efficiency (%)	Uncontrolled Potential to Emit PM/PM10/PM2.5* (lbs/hr)	Uncontrolled Potential to Emit PM/PM10/PM2.5* (tons/year)
Powder Paint Booth PB1 Painter 1	100%	2.632	22.5	59.2	75%	14.80	64.84
Powder Paint Booth PB1 Painter 2	100%	2.632	22.5	59.2	75%	14.80	64.84
		Total Potential to Emit (tons/yr)		**Uncontrolled PM/PM10/PM2.5:**		29.61	**129.67**
				PM Control Efficiency:		90%	**90%**
				Controlled PM:		2.96	**12.97**
				PM10/PM2.5 Control Efficiency:		90%	**90%**
				Controlled PM10/PM2.5:		2.96	**12.97**

NOTES

PTE = Potential to Emit
* PM, PM10, and PM 2.5 emissions are assumed equal.
This electrostatic spray coating operation does not use any VOC containing solvent to liquefy the powder coating, therefore, VOC emissions have been determined negligible.
Based on information provided by the source, HAP emissions have been determined negligible.
Transfer efficiency for manual electrostatic air-atomized spray coating, as listed in AP 40, pg 859-861, is 75%.
Controlled PM emissions based on a minimum cartridge filter control efficiency of 90.0 %.
Controlled PM10/PM2.5 emissions based on a minimum cartridge filter control efficiency of 90.0 %.

METHODOLOGY

Maximum Material Usage
Largest tank size 36" X 124" = 100 Sq Ft surface area
1 .0 pound material will cover approximately 114 sq ft @ 1 mil.
Coating will be applied at 2 - 3 mil thickness, therefore, the worst-case application rate (3.0 mils) was used.
1.0 lb material will cover 38 sq ft @ 3.0 mils
100 sq ft surface area / 38 sq ft = 2.632 lbs material used per tank

Maximum Units/Hour
Line speed 3 FPM (variable)
The maximum units/hour is calculated by how many 36" X 124" tanks can be hung on the line (3 tanks every 12')
3 FPM X 60 Min = 180 FPH
180/12 *3 (tanks on a 12' bar) = 45 tanks per hour. There are 2 painters, with each painter painting 1/2 of the tank = 22.5 tanks per hour, each.

Uncontrolled PTE PM/PM10/PM2.5 (lbs/hr) = Weight % Solids * Maximum Material Usage (lbs/unit) * Maximum Throughput Capacity (units/hr) * (1 - (Transfer Efficiency (%) / 100))
Uncontrolled PTE PM/PM10/PM2.5 (tons/year) = Uncontrolled PTE PM/PM10/PM2.5 (lbs/hr) * 8760 hours/year * 1 ton/2000 lbs
Controlled PTE PM/PM10/PM2.5 (tons/yr) = Uncontrolled PTE PM/PM10/PM2.5 (tons/year) * (1 - (Control Efficiency (%) / 100))

326 IAC 6-3-2(e) Allowable Rate of Emissions

Unit ID	*** Process Weight Rate (total materials throughput) (lbs/hr)	Process Weight Rate (tons/hr)	Allowable PM Emissions (lbs/hr)
Powder Paint Booth PB1 Painter 1	9,753	4.88	11.85
Powder Paint Booth PB1 Painter 2	9,753	4.88	11.85

METHODOLOGY

***Process weight rate: Total weight of all materials introduced into any source operation (326 IAC 1-2-59(a)). Maximum Load on conveyor bar is 19,500 lbs.
Allowable Emissions (lb/hr) = 4.10(Process Weight Rate (ton/hr)^0.67
Allowable Emissions (tons/yr) = (Allowable Emissions (lb/hr)*8760)/2000
The dry filters shall be in operation and maintained according to manufacturer's specifications, at all times the powder coating equipment is in operation, in order to comply with this limit.

Appendix A: Emissions Calculations
Particulate (PM/PM10/PM2.5) Emissions
Big Tank Lines Powder Coating Operation

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Emission Unit	Weight % Solids	Maximum Material Usage (lbs/unit)	Maximum Throughput Capacity (units/hr)	Maximum Material Usage (lbs/hr)	Transfer Efficiency (%)	Uncontrolled Potential to Emit PM/PM10/PM2.5* (lbs/hr)	Uncontrolled Potential to Emit PM/PM10/PM2.5* (tons/year)
Powder Paint Booth PB2	100%	9.868	1.33	13.16	75%	3.29	14.41
			Total Potential to Emit (tons/yr)		**Uncontrolled PM/PM10/PM2.5:**	3.29	**14.41**
					PM Control Efficiency:	90%	**90%**
					Controlled PM:	0.33	**1.44**
					PM10/PM2.5 Control Efficiency:	90%	**90%**
					Controlled PM10/PM2.5:	0.33	**1.44**

NOTES

PTE = Potential to Emit
* PM, PM10, and PM 2.5 emissions are assumed equal.
This electrostatic spray coating operation does not use any VOC containing solvent to liquefy the powder coating, therefore, VOC emissions have been determined negligible.
Based on information provided by the source, HAP emissions have been determined negligible.
Transfer efficiency for manual electrostatic air-atomized spray coating, as listed in AP 40, pg 859-861, is 75%.
Controlled PM emissions based on a minimum cartridge filter control efficiency of 90.0 %.
Controlled PM10/PM2.5 emissions based on a minimum cartridge filter control efficiency of 90.0 %.

METHODOLOGY

Maximum Material Usage
Largest tank size 66" X 240" = 375 Sq Ft surface area
1 .0 pound material will cover approximately 114 sq ft @ 1 mil.
Coating will be applied at 1.5 - 3 mil thickness, therefore, the worst-case application rate (3.0 mils) was used.
1.0 lb material will cover 38 sq ft @ 3.0 mils
375 sq ft surface area / 38 sq ft = 9.868 lbs material used per tank

Maximum Units/Hour
This is a batch line. Once painted, the tank will be placed in the cure oven, taking approximately 1.0 hour to cure. With the cure oven taking approximately 1 hour to cure, the source will be limited on the number of tanks that can be painted per hour. The source will be able to paint one tank every 45 mintutes
24 hours per day X 60 minutes = 1440 minutes
1440 minutes/45 minutes = 32 tanks per day
32 tanks/24 hours = 1.33 tanks per hour

Uncontrolled PTE PM/PM10/PM2.5 (lbs/hr) = Weight % Solids * Maximum Material Usage (lbs/unit) * Maximum Throughput Capacity (units/hr) * (1 - (Transfer Efficiency (%) / 100))
Uncontrolled PTE PM/PM10/PM2.5 (tons/year) = Uncontrolled PTE PM/PM10/PM2.5 (lbs/hr) * 8760 hours/year * 1 ton/2000 lbs
Controlled PTE PM/PM10/PM2.5 (tons/yr) = Uncontrolled PTE PM/PM10/PM2.5 (tons/year) * (1 - (Control Efficiency (%) / 100))

326 IAC 6-3-2(e) Allowable Rate of Emissions

Unit ID	*** Process Weight Rate (total materials throughput) (lbs/hr)	Process Weight Rate (tons/hr)	Allowable PM Emissions (lbs/hr)
Powder Paint Booth PB2	19,510	9.75	18.86

METHODOLOGY

***Process weight; weight rate: Total weight of all materials introduced into any source operation (326 IAC 1-2-59(a)). Maximum Load on hanging bar is 19,500 lbs.
Allowable Emissions (lb/hr) = 4.10(Process Weight Rate (lb/hr)^0.67
Allowable Emissions (tons/yr) = (Allowable Emissions (lb/hr)*8760)/2000
The dry filters shall be in operation and maintained according to manufacturer's specifications, at all times the powder coating equipment is in operation, in order to comply with this limit.

Appendix A: Emission Calculations
Abrasive Blasting - Confined

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Table 1 - Emission Factors for Abrasives

	Emission Factor (EF)	
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 (FR1) of sand through a blasting nozzle as a function of nozzle pressure and internal diameter (ID1)

		Nozzle Pressure (psig)							
Nozzle Type (diameter)	Internal diameter, in	30	40	50	60	70	80	90	100
No. 2 (1/8 inch)	0.125	28	35	42	49	55	63	70	77
No. 3 (3/16 inch)	0.1875	65	80	94	107	122	135	149	165
No. 4 (1/4 inch)	0.25	109	138	168	195	221	255	280	309
No. 5 (5/16 inch)	0.3125	205	247	292	354	377	420	462	507
No. 6 (3/8 inch)	0.375	285	355	417	477	540	600	657	720
No. 7 (7/16 inch)	0.4375	385	472	560	645	755	820	905	940
No. 8 (1/2 inch)	0.5	503	615	725	835	945	1050	1160	1265
No. 10 (5/8 inch)	0.625	820	990	1170	1336	1510	1680	1850	2030
No. 12 (3/4 inch)	0.75	1140	1420	1670	1915	2160	2400	2630	2880
No. 16 (1 inch)	1.0	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) of abrasive at nozzle pressure and internal nozzle diameter (ID)

D1 = Density of sand from Table 2 =	99	lb/ft3
ID1 = Internal diameter of nozzle for sand blasting from Table 3 =	0.5	inch
FR1 = Sand flow rate at nozzle pressure and internal diameter (ID1) from Table 3 =	1265	lb/hr
D = Density of actual abrasive =	487	lb/ft3
ID = internal diameter of actual nozzle =	0.5	inch
FR = Flow rate of actual abrasive (lb/hr) =	6222.8	lb/hr (per nozzle)

Potential to Emit Before Control

FR = Flow rate of actual abrasive (lb/hr) =	6222.8	lb/hr (per nozzle)	
w = fraction of time of wet blasting =	0	%	
N = number of nozzles =	1		
EF = PM emission factor for actual abrasive from Table 1 =	0.004	lb PM/ lb abrasive	
PM10 emission factor ratio for actual abrasive from Table 1 =	0.86	lb PM10 / lb PM	
	PM	**PM10***	
Potential to Emit (before control) =	**24.89**	**21.41**	**lb/hr**
=	**597.39**	**513.75**	**lb/day**
=	**109.02**	**93.76**	**ton/yr**

Potential to Emit After Control

	PM	PM10	
Emission Control Device Efficiency =	**95.0%**	**95.0%**	
Potential to Emit (after control) =	**1.24**	**1.07**	**lb/hr**
=	**29.87**	**25.69**	**lb/day**
=	**5.45**	**4.69**	**ton/yr**

NOTES

* In the absence of valid PM2.5 emission factors, it is assumed that PM2.5 emissions = PM10 emissions
Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

METHODOLOGY

Flow rate of actual abrasive (FR) (lb/hr) = FR1 x (ID/ID1)^2 x (D/D1)
Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))
Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]
Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

326 IAC 6-3-2(e) Allowable Rate of Emissions

Unit ID	Process Rate (lbs/hr)	Process Weight Rate* (tons/hr)	Allowable Emissions (lbs/hr)
Shotblasting	25,723	12.86	**22.70**

METHODOLOGY

*Process weight; weight rate: Total weight of all materials introduced into any source operation (326 IAC 1-2-59(a)). Maximum Load on tank hanging bar is 19,500 lbs.
Allowable Emissions (lb/hr) = 4.10(Process Weight Rate (lb/hr)^0.67
Allowable Emissions (tons/yr) = (Allowable Emissions (lb/hr)*8760)/2000

Appendix A: Emission Calculations
Abrasive Blasting - Confined

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Table 1 - Emission Factors for Abrasives

	Emission Factor (EF)	
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 (FR1) of sand through a blasting nozzle as a function of nozzle pressure and internal diameter (ID1)

		Nozzle Pressure (psig)							
Nozzle Type (diameter)	Internal diameter, in	30	40	50	60	70	80	90	100
No. 2 (1/8 inch)	0.125	28	35	42	49	55	63	70	77
No. 3 (3/16 inch)	0.1875	65	80	94	107	122	135	149	165
No. 4 (1/4 inch)	0.25	109	138	168	195	221	255	280	309
No. 5 (5/16 inch)	0.3125	205	247	292	354	377	420	462	507
No. 6 (3/8 inch)	0.375	285	355	417	477	540	600	657	720
No. 7 (7/16 inch)	0.4375	385	472	560	645	755	820	905	940
No. 8 (1/2 inch)	0.5	503	615	725	835	945	1050	1160	1265
No. 10 (5/8 inch)	0.625	820	990	1170	1336	1510	1680	1850	2030
No. 12 (3/4 inch)	0.75	1140	1420	1670	1915	2160	2400	2630	2880
No. 16 (1 inch)	1.0	2030	2460	2900	3340	3780	4200	4640	5060

CALCULATIONS

Potential to Emit Before Control

FR = Flow rate of actual abrasive (lb/hr) =	900.0	lb/hr (per nozzle)
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	
EF = PM emission factor for actual abrasive from Table 1 =	0.01	lb PM/ lb abrasive
PM10 emission factor ratio for actual abrasive from Table 1 =	0.86	lb PM10 / lb PM

	PM	PM10*	
Potential to Emit (before control) =	**9.00**	**7.74**	**lb/hr**
=	**216.00**	**185.76**	**lb/day**
=	**39.42**	**33.90**	**ton/yr**

Potential to Emit After Control

	PM	PM10	
Emission Control Device Efficiency =	**99.0%**	**99.0%**	
Potential to Emit (after control) =	**0.09**	**0.08**	**lb/hr**
=	**2.16**	**1.86**	**lb/day**
=	**0.39**	**0.34**	**ton/yr**

NOTES

* In the absence of valid PM2.5 emission factors, it is assumed that PM2.5 emissions = PM10 emissions
Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

METHODOLOGY

Flow rate of actual abrasive (FR) (lb/hr) = FR1 x (ID/ID1)^2 x (D/D1)
Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))
Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]
Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

326 IAC 6-3-2(e) Allowable Rate of Emissions

Unit ID	Process Rate (lbs/hr)	Process Weight Rate* (tons/hr)	Allowable Emissions (lbs/hr)
Shotblasting	20,400	10.20	**19.43**

METHODOLOGY

*Process weight; weight rate: Total weight of all materials introduced into any source operation (326 IAC 1-2-59(a)). Maximum Load on tank hanging bar is 19,500 lbs.
Allowable Emissions (lb/hr) = 4.10(Process Weight Rate (lb/hr)^0.67
Allowable Emissions (tons/yr) = (Allowable Emissions (lb/hr)*8760)/2000

Appendix A: Emissions Calculations
Abrasive Blasting - Confined for Steel Shot

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Emission Unit	PM Emission Factor (lb PM/ lb abrasive)*	PM10 Emission Factor (lb PM10/ lb abrasive)**	Flow Rate (lbs abrasive/hr)	Potential to Emit PM (lbs/hr) Uncontrolled	Potential to Emit PM10/PM2.5 (lbs/hr) uncontrolled	Potential to Emit PM (tons/yr) Uncontrolled	Potential to Emit PM10/PM2.5 (tons/yr) uncontrolled	Filter Control Efficiency (%)	Potential to Emit PM (tons/yr) Controlled Emissions (tons/yr)	Potential to Emit PM10/PM2.5 (tons/yr) Controlled Emissions
Monorail Descaling for Production Line Propane/Air Tanks	0.000186	0.00016	360000	67.00	57.62	293.46	252.38	99.99%	0.03	0.03
Total						**293.46**	**252.38**		**0.03**	**0.03**

METHODOLOGY

*PM Emission Factor based on manufacturer's analysis of particulate produced. Each of the eight (8) wheels throws 180 lbs/hr/HP. At 200 HP/hr, the maximum abrasive usage is 360,000 lbs/hr. The approximate break down of abrasive is 1/4 to 1/3 lb/hr/HP (50 - 67 lb/hr @ 200 HP). As a worst case scenario, it was assumed that PM = 67 lb/hr @ 360,000 lb/hour of shot. PM (lb/lb) EF = 67/360,000

**PM10 Emission Factor from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition) for Steel Shot (0.86 lb/lb of PM).

Flow Rate is based on manufacturer's specifications = (Max 45,000 lbs. / hr / wheel) * (# of wheels inside the shot blaster (8)), Per manufacturer, this rate is adjustable and should be adjusted based on cleaning requirements needed. Since this is a new process, emissions are being calcuated based on maximum rate. However, based on our other sites who have the same equipment, the equipment will be reduced down significantly to give the finish neeeded. The system is equipped with twenty poly-tec standard cartridges with an efficiency rating of 99.99 %.

Potential to Emit (lbs/hr) = Emission Factor (lb/lb abrasive) * Flow Rate (lbs abrasive/hr)
Potential to Emit (tons/yr) = Potential to Emit (lbs/hr) * 1 ton / 2000 lbs * 8760 hrs / yr
Controlled Emissions (tons/yr) = Potential to Emit (tons/yr) * (1-Control efficiency (%))

326 IAC 6-3-2(e) Allowable Rate of Emissions

Unit ID	Process Rate (lbs/hr)	Process Weight Rate* (tons/hr)	Allowable Emissions (lbs/hr)
Shotblasting	360,000	180.00	**57.37**

METHODOLOGY

*Process weight; weight rate: Total weight of all materials introduced into any source operation (326 IAC 1-2-59(a)).
Allowable Emissions (lb/hr) = 4.10(Process Weight Rate (lb/hr)^0.67
Allowable Emissions (tons/yr) = (Allowable Emissions (lb/hr)*8760)/2000

Appendix A: Emissions Calculations
Metal Oxyfuel/Plasma Cutting Machine

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Plasma Cutting Emission Factors (lb/hr cutting)			
Pollutant	**Mild Steel**	**Aluminum**	**Stainless Steel**
PM*	1.70E+00	5.02E+00	1.28E+00
Arsenic	1.70E-04	1.54E-03	1.23E-03
Cadmium	1.18E-05	7.48E-07	0.00E+00
Chromium	5.80E-05	2.65E-04	5.85E-02
Manganese	1.60E-02	8.76E-04	7.08E-02
Nickel	4.04E-04	7.03E-05	3.05E-02
Phosphorus	7.00E-04	7.38E-04	4.21E-04
Lead	1.17E-04	7.88E-05	2.89E-06
Antimony	5.05E-06	8.07E-05	0.00E+00
Selenium	5.48E-05	8.07E-06	5.11E-05

Note: Emission factors (lb/hr cutting) are supplied by manufacturer.

	Uncontrolled						**Controlled**		
	Emission Rate in lb/yr			**Emission Rate in ton/yr cutting**			**Emission Rate in ton/yr cutting**		
Pollutant	**Mild Steel**	**Aluminum**	**Stainless Steel**	**Mild Steel**	**Aluminum**	**Stainless Steel**	**Mild Steel**	**Aluminum**	**Stainless Steel**
PM*	14,892.00	43,975.20	11,212.80	7.45	**21.99**	5.61	0.07	**0.22**	0.06
Antimony	0.04	0.71	0	2.21E-05	3.53E-04	0	2.21E-07	3.53E-06	0
Arsenic	1.49	13.49	10.77	7.45E-04	6.75E-03	5.39E-03	7.45E-06	6.75E-05	5.39E-05
Cadmium	0.10	0.01	0	5.17E-05	3.28E-06	0	5.17E-07	3.28E-08	0
Chromium	0.51	2.32	512.46	2.54E-04	1.16E-03	2.56E-01	2.54E-06	1.16E-05	2.56E-03
Lead	1.02	0.69	0.03	5.12E-04	3.45E-04	1.27E-05	5.12E-06	3.45E-06	1.27E-07
Manganese	140.16	7.67	620.21	7.01E-02	3.84E-03	**3.10E-01**	7.01E-04	3.84E-05	**3.10E-03**
Nickel	3.54	0.62	267.18	1.77E-03	3.08E-04	1.34E-01	1.77E-05	3.08E-06	1.34E-03
Selenium	0.48	0.07	0.45	2.40E-04	3.53E-05	2.24E-04	2.40E-06	3.53E-07	2.24E-06
HAP Total	**147.30**	**24.87**	**1411.10**	**7.37E-02**	**1.24E-02**	**7.06E-01**	**7.37E-04**	**1.24E-04**	**7.06E-03**

NOTES

Emission Factors supplied by manufacturer.
The metal oxyfuel/plasma cutting machine consists of one (1) plasma torch and two (2) oxyfuel torches. It has the ability to cut using one plasma torch, one oxyfuel torch, or two oxyfuel torches simultaneously. Potential emissions provided for the plasma cutting torch is the worst case scenario for this cutting machine.
Potential emissions based on assumption that each material is used 8,760 hours.
Controlled emissions based on cartridge filter control efficiency of 99.0 %
Worst case HAP = Manganese
*In the absence of valid emission factors, it is assumed that PM10 and PM2.5 emissions = PM emissions

METHODOLOGY

Uncontrolled Emission Rate (lb/yr) = Plasma Cutting Emission Factors (lb/hr cutting) * 8760 (hrs/yr)
Uncontrolled Emission Rate (ton/yr) = Uncontrolled Emission Rate (lb/yr) * (1 ton/2000 lbs)
Controlled Emission Rate (ton/yr) = Uncontrolled Emission Rate (ton/yr) * (1 - control efficiency)

Appendix A: Emissions Calculations
Metal Cutting Operations

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

Emission unit	Max combo of thickness & speed		Avg. Cut
	Thickness (In)	Speed (IPM)	Width (inches)
Whitney Plasma	0.75	55	0.10
Head Burner ML Plasma (40 amp)	0.75	44	0.10
Head Burner ML Oxyfuel (hole burner)	1.50	18	0.10
Shell Hole Plasma Burner Propane/Air Line	1.00	137	0.10
Head Burner Line 5 Plasma (100 amp)	1.00	137	0.10
Head Burner Line 7 Plasma (100 amp)	1.00	137	0.10
Oxy Fuel Burner (Table outside) (plate burner	1.50	14.5	0.10
Hand held oxy fuel units	1.50	18	0.10
Hand held plasma units	1.00	137	0.10

CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 8mm thick)				EMISSIONS lbs/hr				Total HAPS (lbs/hr)
				PM*	Mn	Ni	Cr	PM*	Mn	Ni	Cr	
Whitney Plasma	1	0.75	55	0.0039	0.0128	0.044	0.064	0.031	3.92E-04	1.34E-03	1.96E-03	0.004
Head Burner ML Plasma (40 amp)	1	0.75	44	0.0039	0.0128	0.044	0.064	0.025	3.14E-04	1.07E-03	1.57E-03	0.003
Head Burner ML Oxyfuel	1	1.50	18	0.0039	0.0128	0.044	0.064	0.020	2.57E-04	8.79E-04	1.28E-03	0.002
Shell Hole Plasma Burner Propane/Air Line	1	1.00	137	0.0039	0.0128	0.044	0.064	0.102	1.30E-03	4.46E-03	6.51E-03	0.012
Head Burner Line 5 Plasma (100 amp)	1	1.00	137	0.0039	0.0128	0.044	0.064	0.102	1.30E-03	4.46E-03	6.51E-03	0.012
Head Burner Line 7 Plasma (100 amp)	1	1.00	137	0.0039	0.0128	0.044	0.064	0.102	1.30E-03	4.46E-03	6.51E-03	0.012
Oxy Fuel Burner (Table outside)	1	1.50	14.5	0.0039	0.0128	0.044	0.064	0.016	2.07E-04	7.08E-04	1.03E-03	0.002
Hand held oxy fuel units	25	1.50	18	0.0039	0.0128	0.044	0.064	0.501	6.42E-03	0.022	0.032	0.060
Hand held plasma units	15	1.00	137	0.0039	0.0128	0.044	0.064	1.527	0.020	0.067	0.098	0.184
TOTAL POTENTIAL EMISSIONS												
Emissions (lbs/hr)								2.42	0.03	0.11	0.16	0.29
Emissions (lbs/day)								58.19	0.74	2.55	3.72	7.02
Emissions (tons/year)								**10.62**	**0.14**	**0.47**	**0.68**	**1.28**

NOTES
*In the absence of valid emission factors, it is assumed that PM10 and PM2.5 emissions = PM emissions
Emission Factor for plasma cutting from American Welding Society (AWS).

METHODOLOGY
Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick
Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)(1E-3)(Metal Thickness/8mm=0.315"Thick)
Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8mm thick)
Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

Appendix A: Emissions Calculations
Welding - Insignificant Activity

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Welding Type	Actual Weld Wire Usage (1000 lbs/year)	Potential Weld Wire Usage (1000 lbs/year)	Emission Factors (lb/1000 lbs electorde)					Emissions (tons/yr)				
			PM/PM10*	Cr	Co	Mn	Ni	PM/ PM10*	Cr	Co	Mn	Ni
Gas Metal Arc Welding (L-50 and L-56)	32.87	145.72	5.200	1.00E-02	0	3.18E+00	1.00E-02	0.38	7.29E-04	0	0.23	7.29E-04
Addiitonal Gas Metal Arc Welding New Line (L-50 and L-56)	10.50	46.55	5.200	1.00E-02	0	3.18E+00	1.00E-02	0.12	2.33E-04	0	0.07	2.33E-04
Submerged Arc Welding (L-61)	41.49	183.93	5.200	1.00E-02	0	3.18E+00	1.00E-02	0.48	9.20E-04	0	0.29	9.20E-04
Additional Submerged Arc Welding New Line (L-61)	52.87	234.38	5.200	1.00E-02	0	3.18E+00	1.00E-02	0.61	1.17E-03	0	0.37	1.17E-03
5356 Aluminum	0.07	0.29	24.10	1.00E-02	0	3.40E-02	0	3.53E-03	1.46E-06	0	4.97E-06	0
309/316 Stainless	0.76	3.35	10.80	7.52E-01	1.00E-03	2.52E-01	4.30E-03	0.02	1.26E-03	1.68E-06	4.22E-04	7.21E-06
Welding Rods	1.95	8.64	5.20	1.00E-02	0	3.18E+00	1.00E-02	0.02	4.32E-05	0	0.01	4.32E-05
							Total	**1.63**	**4.36E-03**	**1.68E-06**	**0.99**	**3.10E-03**

NOTES

Emission factors are from Fire 6.24, and AP 42-19: Electric Arc Welding, Tables 12.19-1 and 12.19-2, (01/95).

Hours of Operation		
	Total work days in 2010	247
	Hours worked per day	8
	Total hours	1976

Actual Welding Wire Use Data taken from the opsEnvironmentalTM (Software) Material Usage Report, from 1/1/10 - 8/31/10, was utilized to determine welding wire usage.
Welding wire was averaged for the 8 months and then extrapolated to 12 months usage

* In the absence of valid PM2.5 emission factors, it is assumed that PM2.5 emissions = PM10 emissions

METHODOLOGY

Emissions (tons/yr) = Usage (1,000 lbs/yr) x Emission Factor (lb/1,000 lb electrode) x 1 ton/2,000 lbs

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Miscellaneous Units

Company Name: Manchester Tank and Equipment Company
Address City IN Zip: 905 X Street, Bedford, Indiana 47421
FESOP Renewal Permit No.: F093-36543-00010
Significant Permit Revision No.: 093-37276-00010
Reviewer: Joshua Levering

Maximum Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
18.41	1020	158.07

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.15	0.60	0.60	0.05	7.90	0.43	6.64

*PM emission factor is filterable PM only. PM10 & PM2.5 emission factors are filterable and condensable fractions combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

HAPs Emissions

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.10E-03	1.20E-03	0.08	1.80	3.40E-03
Potential Emission in tons/yr	1.66E-04	9.48E-05	5.93E-03	1.42E-01	2.69E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.00E-04	1.10E-03	1.40E-03	3.80E-04	2.10E-03
Potential Emission in tons/yr	3.95E-05	8.69E-05	1.11E-04	3.00E-05	1.66E-04

NOTES
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, 1.4-4 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/

Total HAPs = 0.149 tons/yr

Worst Single HAP = 0.142 tons/yr *(hexane)*

METHODOLOGY
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

Combustion Source	# of units	Heat Input per unit (MMBtu/hr)	Total Heat Input (MMBtu/hr)
Comfort Heater #1, #2, #3	3	0.12	0.36
Comfort Heater #4	1	6.60	6.60
Comfort Heater #5, #6, #7	3	0.09	0.27
Comfort Heater #8	1	0.495	0.50
Comfort Heater #9	1	0.04	0.04
Comfort Heater #10	1	0.10	0.10
Comfort Heater #11 through #15	5	0.30	1.50
Comfort Heater #16	1	0.08	0.08
Comfort Heater #17	1	0.08	0.08
Comfort Heater #18	1	0.08	0.08
Washer Stage 1 Heater WS-1	1	1.35	1.35
Washer Stage 3 Heater WS-3	1	1.35	1.35
Cure Oven Zone 1 Booster COB-1	1	1.12	1.12
Cure Oven Zone 1 CO-1	1	1.38	1.38
Cure Oven Zone 2 CO-2	1	2.00	2.00
Batch Cure Oven BO1	1	1.20	1.20
Power Washer PW1	1	0.40	0.40
Total	**25**		**18.41**

Appendix A: Emissions Calculations
VOC Emissions
Degreasing Operations

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

Parts Washer Identification	Solvent Name	Solvent Density (lb/gal)	Annual Solvent Throughput (gal/yr)	Weight Percent VOC	Annual Emission Rate TPY
Big Tank Line power washer*	CAL CLEAN 756 SW	8.89	-	10.00%	1.00
Main Line power washer	CAL CLEAN 879 E	9.60	450.00	0.00%	-
Parts washer	Regular Mineral Spirits (RMS), Stoddard Solvent	6.47	145.00	100.00%	0.47
	Total Annual Emission Rate				**1.47**

*VOC PTE assumed to be equal to or less than 1.0 ton per year

METHODOLOGY

Annual Emission Rate = Solvent Density (lb/gal) x Annual Throughput (gal) x Weight % VOC / 2,000 (lb/ton)

Materials do not contain hazardous air pollutants

TPY - Tons per Year

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

Unpaved Roads at Industrial Site
The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Trucks (entering plant) (one-way trip)	1.0	1.0	1.0	20.0	20.0	1320	0.250	0.3	91.3
Trucks (leaving plant) (one-way trip)	1.0	1.0	1.0	20.0	20.0	1320	0.250	0.3	91.3
Cars (entering plant) (one-way trip)	90.0	1.0	90.0	2.0	180.0	1320	0.250	22.5	8212.5
Cars (leaving plant) (one-way trip)	90.0	1.0	90.0	2.0	180.0	1320	0.250	22.5	8212.5
		Totals	**182.0**		**400.0**			**45.5**	**16607.5**

Average Vehicle Weight Per Trip = 2.2 tons/trip
Average Miles Per Trip = 0.25 miles/trip

Unmitigated Emission Factor, Ef = k*[(s/12)^a]*[(W/3)^b] (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	6.0	6.0	6.0	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron and Steel Produc
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	2.2	2.2	2.2	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [(365 - P)/365] (Equation 2 from AP-42 13.2.2)
Mitigated Emission Factor, Eext = E * [(365 - P)/365]
where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	2.62	0.70	0.07	lb/mile
Mitigated Emission Factor, Eext =	1.72	0.46	0.05	lb/mile
Dust Control Efficiency =	0%	0%	0%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Trucks (entering plant) (one-way trip)	0.12	0.03	0.00	0.08	0.02	0.00	0.08	0.02	0.00
Trucks (leaving plant) (one-way trip)	0.12	0.03	0.00	0.08	0.02	0.00	0.08	0.02	0.00
Cars (entering plant) (one-way trip)	10.77	2.87	0.29	7.08	1.89	0.19	7.08	1.89	0.19
Cars (leaving plant) (one-way trip)	10.77	2.87	0.29	7.08	1.89	0.19	7.08	1.89	0.19
Totals	21.77	5.80	0.58	**14.32**	**3.82**	**0.38**	14.32	3.82	0.38

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

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

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: **Manchester Tank and Equipment Company**
Address City IN Zip: **905 X Street, Bedford, Indiana 47421**
FESOP Renewal Permit No.: **F093-36543-00010**
Significant Permit Revision No.: **093-37276-00010**
Reviewer: **Joshua Levering**

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

Vehicle Informtation (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Trucks (entering plant) (one-way trip)	5.0	1.0	5.0	10.0	50.0	1320	0.250	1.3	456.3
Trucks (leaving plant) (one-way trip)	5.0	1.0	5.0	10.0	50.0	1320	0.250	1.3	456.3
Cars (entering plant) (one-way trip)	25.0	1.0	25.0	2.0	50.0	1320	0.250	6.3	2281.3
Cars (leaving plant) (one-way trip)	25.0	1.0	25.0	2.0	50.0	1320	0.250	6.3	2281.3
		Totals	**60.0**		**200.0**			**15.0**	**5475.0**

Average Vehicle Weight Per Trip = 3.3 tons/trip
Average Miles Per Trip = 0.25 miles/trip

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

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	3.3	3.3	3.3	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m^2 = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)
Mitigated Emission Factor, Eext = Ef * [1 - (p/4N)]
where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	0.297	0.059	0.0146	lb/mile
Mitigated Emission Factor, Eext =	0.272	0.054	0.0133	lb/mile
Dust Control Efficiency =	0%	0%	0%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Trucks (entering plant) (one-way trip)	0.07	0.01	0.00	0.06	0.01	0.00	0.06	0.01	0.00
Trucks (leaving plant) (one-way trip)	0.07	0.01	0.00	0.06	0.01	0.00	0.06	0.01	0.00
Cars (entering plant) (one-way trip)	0.34	0.07	0.02	0.31	0.06	0.02	0.31	0.06	0.02
Cars (leaving plant) (one-way trip)	0.34	0.07	0.02	0.31	0.06	0.02	0.31	0.06	0.02
Totals	0.81	0.16	0.04	**0.74**	**0.15**	**0.04**	0.74	0.15	0.04

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

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

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

Michael R. Pence
Governor

Carol S. Comer
Commissioner

August 24, 2016

Ms. Terri Evans
Manchester Tank and Equipment Company
905 X Street
Bedford, IN 47421

Re: Public Notice
Manchester Tank and Equipment Company
Permit Level: Federally Enforceable State Operating Permit (FESOP) Significant Permit Revision
Permit Number: 093-37276-00010

Dear Ms. Evans:

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 Times-Mail in Bedford, Indiana publish the abbreviated version of the public notice no later than August 27, 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 Bedford Library, 1323 K Street in Bedford, 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 Joshua Levering, 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 4-6543 or dial (317) 234-6543.

Sincerely,

Vivian Haun

Vivian Haun
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016

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Carol S. Comer
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

August 23, 2016

Times-Mail
813 16th Street
PO Box 849
Bedford, IN 47421

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Manchester Tank and Equipment Company, Lawrence 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 August 27, 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: 093-37276-00010

Enclosure
PN Newspaper.dot 8/27/2015

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

August 24, 2016

To: Bedford 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: Manchester Tank and Equipment Company
Permit Number: 093-37276-00010

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 2/16/2016

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

Notice of Public Comment

August 24, 2016
Manchester Tank and Equipment Company
093-37276-00010

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 8/24/2016 Manchester Tank and Equipment Company 093-37276-00010 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		Terri Evans Manchester Tank and Equipment Company 905 X St Bedford IN 47421-2451 (Source CAATS)									
2		Jamie Ryan GM Manchester Tank and Equipment Company 905 X St Bedford IN 47421-2451 *(RO CAATS)*									
3		Bedford City Council and Mayors Office 1102 16th St Bedford IN 47421 *(Local Official)*									
4		Lawrence County Board of Commissioners 916 15th Street Bedford IN 47421 *(Local Official)*									
5		Bedford Public Library 1323 K Street Bedford IN 47421 *(Library)*									
6		Mr. Anthony Wray 1861 Buddha Bypass Rd Bedford IN 47421 *(Affected Party)*									
7		Mr. Bobby Minton 7745 S. Fairfax Rd Bloomington IN 47401 *(Affected Party)*									
8		Mr. Danny Arnold 374 Cedar View Ln. Bedford IN 47421 *(Affected Party)*									
9		Mr. David Weatherholt Boilermaker Local #374 4777 East County Road 2100 North Dale IN 47523 *(Affected Party)*									
10		Mr. Don Sherry 1111 215 St. Tell City IN 47506-2815 *(Affected Party)*									
11		Lawrence County Health Department 2419 Mitchell Rd. Bedford, IN 47421 *(Health Department)*									
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