



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

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(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 Modification and a Renewal to a
Part 70 Operating Permit

for Toyota Industrial Equipment Manufacturing, Inc. in Bartholomew County

Significant Source Modification No.: 005-36810-00040
Part 70 Operating Permit Renewal No.: T 005-36701-00040

The Indiana Department of Environmental Management (IDEM) has received an application from Toyota Industrial Equipment Manufacturing, Inc., located at 5555 Inwood Drive, Columbus, IN 47201, for a significant source modification and renewal of its Part 70 Operating Permit issued on October 11, 2011. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Toyota Industrial Equipment Manufacturing, Inc. to make certain changes at its existing source. Toyota Industrial Equipment Manufacturing, Inc. has applied to construct and operate 41 Metal Inert Gas (MIG), 13 robotic MIG welders, one (1) four-stage iron phosphate washer, natural gas combustion units with total heat input capacity of 27.26 MMBtu/hr, and to remove an existing large parts shot blast cabinet, identified as U009.

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). 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:

Bartholomew County Public Library
536 fifth Street
Columbus, IN 47201-6225

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 SSM 005-36810-00040 and T 005-36701-00040 in all correspondence.

Comments should be sent to:

Anh Nguyen
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 3-5334
Or dial directly: (317) 233-5334
Fax: (317) 232-6749 attn: Anh Nguyen
E-mail: pnguyen@idem.IN.gov

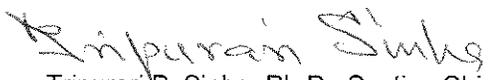
All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have 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 Anh or my staff at the above address.


Tripurari P. Sinha, Ph.D., Section Chief
Permits Branch
Office of Air Quality



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Mr. Dixon Churchill
Toyota Industrial Equipment Manufacturing, Inc.
5555 Inwood Drive
Columbus, IN 47201

Re: 005-36810-00040
Significant Source Modification

Dear Mr. Churchill:

Toyota Industrial Equipment Manufacturing, Inc. was issued Part 70 Operating Permit Second Renewal No. T005-30305-00040 on October 11, 2011 for a stationary Industrial Truck Manufacturing source located at 5555 Inwood Drive, Columbus, IN 47201. An application to modify the source was received on January 12, 2016. Pursuant to the provisions of 326 IAC 2-7-10.5, a Significant Source Modification is hereby approved as described in the attached Technical Support Document.

Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction at the source:

- (1) 56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved for construction in 2016, capacity of 36.7 pounds of weld wire per hour.
- (2) 13 robotic MIG welders approved for construction in 2016, with a maximum capacity of 26.2 pounds of weld wire per hour.
- (3) One (1) four-stage iron phosphate washer constructed in 2016, with potential annual usage of 792 pounds per year, and no add-on control..
- (4) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, emission units with total heat input capacity of 27.26 million British thermal units per hour, constructed in 2016.

Emission Unit Removed

- (1) One (1) large parts shot blast cabinet, identified as U009, constructed in 1989, exhausting to a cartridge dust collector (C009) and exiting inside the building, capacity: 132,000 pounds of steel shot per hour.

The following construction conditions are applicable to the proposed modification:

General Construction Conditions

1. 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



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rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

3. Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

Commenced Construction

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(j), 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.
6. Pursuant to 326 IAC 2-7-10.5(h)(2), this Significant Source Modification authorizes the construction of the new emission unit(s), when the Significant Source Modification has been issued.

Pursuant to 326 IAC 2-7-10.5(m), the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

Pursuant to 326 IAC 2-7-12, operation of the new emission unit(s) is not approved until the Significant Permit Modification has been issued. Operating conditions shall be incorporated into the Part 70 Operating Permit as a Significant Permit Modification in accordance with 326 IAC 2-7-10.5(m)(2) and 326 IAC 2-7-12 (Permit Modification).

For the purposes of this permitting action, the Significant Permit Modification has been combined with the current Part 70 Operating Permit Renewal. Therefore, operation is not approved until the Part 70 Operating Permit Renewal has been issued.

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 Anh Nguyen of my staff, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Anh Nguyen or extension 3-5334 or dial (317) 233-5334.

Sincerely,

Tripurari P. Sinha, Ph.D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Significant Source Modification and Technical Support Document

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cc: File - Bartholomew County
Bartholomew County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch
IDEM Southeast Regional Office



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Significant Source Modification to a Part 70 Source

OFFICE OF AIR QUALITY

Toyota Industrial Equipment Manufacturing, Inc.
5555 Inwood Drive
Columbus, Indiana 47202

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

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 2-7 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.

This permit also addresses certain new source review requirements for new and/or existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Significant Source Modification No.: 005-36810-00040	
Issued by: Tripurari P. Sinha, Ph. D., Section Chief, Permits Branch Office of Air Quality	Issuance Date:

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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 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary industrial lift truck manufacturing source.

Source Address:	5555 Inwood Drive, Columbus, Indiana 47201
General Source Phone Number:	(812) 342-5211
SIC Code:	3537 (Industrial Trucks, Tractors, Trailers, and Stackers)
County Location:	Bartholomew
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program
	Minor Source, under PSD
	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 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

PLANT 1

- (a) One (1) primer coat paint booth, identified as U001, constructed in 1989, equipped with a robotic spray system using air assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S001a and S001b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (b) One (1) top coat paint booth, identified as U002, constructed in 1989, equipped with air-assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S002a and S002b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (c) One (1) touch-up paint booth, identified as U004, constructed in 1989, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S004, capacity: 42.1 gallons and 443.8 pounds of coatings per hour.
- (d) One (1) D-line paint booth, identified as U005, constructed in 1996, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S005a, capacity: 7.68 gallons and 82.0 pounds of coatings per hour.
- (e) One (1) counter-weight paint line, identified as U013, constructed in 2006, consisting of:
 - (1) One (1) paint booth, identified as U013a, constructed in 2006, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting through stack S013b, capacity: 15 gallons of coating per hour.

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- (2) One (1) paint booth, identified as U013b, constructed in 2006, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting to stack S013d, capacity: 15 gallons of coating per hour.
- (3) Three (3) infrared ovens, each exhausting to one (1) stack, S013a, S013c and S013e.
- (f) One (1) compressed natural gas (CNG) fueling station for the one (1) time filling of fork lift fuel tanks and the testing of the CNG forklift engines, constructed in 2003, maximum capacity: one thousand (1,000) forklift fuel tanks per twelve (12) consecutive month period, and heat input capacities no more than 0.521 million British thermal units per hour per engine.
- (g) One (1) Repair Spray Booth, identified as U014, constructed in 2007, equipped with air-assisted airless spray guns and dry filters as over spray control, exhausting to stack S014, maximum coating usage: seven (7) gallons per hour (gal/hr).

PLANT 2

- (h) One (1) shot blast cabinet, identified as finger bar shot blast (previously identified as U015), constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.
- (i) One (1) steel shot blast unit, identified as mast rail shot blast (previously identified as U011), constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

PLANT 1

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. Emission units with a plant-wide total heat input capacity of 177.95 million British thermal units per hour, including, one (1) natural gas-fired boiler, constructed in 2014, with a maximum capacity of 1.7 million British thermal units per hour and two (2) boilers, constructed in 1989, rated at 0.75 million British thermal units per hour, each. [326 IAC 6-2-4]
- (b) One (1) natural gas-fired emergency generator, constructed in 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ, this is an affected source.]

[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

ENTIRE SOURCE

- (c) Paved and unpaved roads. [326 IAC 6-4]

A.4 Other Insignificant Activities

Plant 1

- (a) One (1) solvent recovery system, constructed in 2015, identified as SRS-1, with a maximum batch size of 20 gallons with emissions included in the surface coating operations.

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(b) Powder Coating Lines

- (1) One (1) self-contained powder coat line, identified as Small Parts Powder Coat or SPPC (previously identified as I011), constructed in 1996, containing two (2) reclaim booths and one (1) non-reclaim booth with a capacity of 84.0 pounds of powder per hour, per booth and total controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:
 - (a) One (1) five (5)-stage iron phosphate spray washer, with a capacity of 18,573 gallons of alkaline materials per year;
 - (b) One (1) hot water generator, with a heat input capacity of 4 million British thermal units per hour;
 - (c) One (1) natural gas-fired drying oven and bake/cure oven, with a heat input capacity of 2 million British thermal units per hour; and
- (2) One (1) self-contained powder coat line, identified as Mast Rail Powder Coat or MRPC (previously identified as I012), constructed in 1999, containing two (2) reclaim booths with a capacity of 84.0 pounds of powder per hour, per booth and total controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:
 - (a) One (1) five (5)-stage iron phosphate washer, with a capacity of 25,606 gallons of alkaline materials per year;
 - (b) One (1) hot water generator, with a heat input capacity of 4 million British thermal units per hour; and
 - (c) One (1) natural gas-fired drying oven and bake/cure oven, with a heat input capacity of 2 million British thermal units per hour.
- (c) One (1) four-stage iron phosphate washer (only), identified as #7 frame washer, installed in 2000, using non-VOC cleaners, with a capacity of 22,732 gallons of alkaline material per year.
- (d) One (1) 4- stage Iron Phosphate Spray Washer, approved in 2016 for construction, with potential annual usage of 9,472 gallons of alkaline material per year, and no add-on control.
- (e) Other activities or categories with emissions equal to or less than the insignificant activity thresholds:
 - (1) 167 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
 - (2) 25 robotic MIG welders constructed in 1997.
 - (3) 2 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
 - (4) 56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved in 2016 for construction.
 - (5) 13 robotic MIG welders approved in 2016 for construction.

Plant 2

- (a) Six laser cutting machines, constructed in 2011, emissions controlled by a dust collector, exhausting indoors.

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- (b) One (1) robotic welder with a maximum capacity of 2 pounds of weld wire per hour.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

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SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, T005-30305-00040, is issued for a fixed term of five (5) 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, including any permit shield provided in 326 IAC 2-7-15, 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 2-7-7] [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 2-7-5(5)]

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 2-7-5(6)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(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.

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B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35) , 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) A "responsible official" is defined at 326 IAC 2-7-1(35).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (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 2-7-5(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.

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The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (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.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a 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;

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- (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 2-7-5(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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35) .

- (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 2-7-4(c)(8) 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

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of 326 IAC 2-7 and any other applicable rules.

- (g) 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.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

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- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T005-30305-00040 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

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 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 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 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (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 2-7-9(a)(3)]
- (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 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(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 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (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 2-7-4. 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

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in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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 2-7 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 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35) .
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar

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approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (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 preconstruction approval required by 326 IAC 2-7-10.5 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 2-7-20(b) or (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 2-7-20(b)(1) and (c)(1).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

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The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) Emission Trades [326 IAC 2-7-20(c)]
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 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
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 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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 Part 70 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 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 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 substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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:

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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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35) .

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within 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) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][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.

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SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(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 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.3 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.4 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.5 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A. The provisions of 326 IAC 6-5 are not federally enforceable.

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

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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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

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

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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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (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 2-7-5(1)][326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(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 2-7-5][326 IAC 2-7-6]

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) These ERPs shall be submitted for approval 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 ninety (90) days after the date of issuance of this permit.

The ERP does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35) .

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(11)] [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.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

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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.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of

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this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(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 Part 70 permit.

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

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

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

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

C.18 General Reporting Requirements [326 IAC 2-7-5(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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35) . 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:

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

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

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

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SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Surface Coating

- (a) One (1) primer coat paint booth, identified as U001, constructed in 1989, equipped with a robotic spray system using air assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S001a and S001b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (b) One (1) top coat paint booth, identified as U002, constructed in 1989, equipped with air-assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S002a and S002b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (c) One (1) touch-up paint booth, identified as U004, constructed in 1989, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S004, capacity: 42.1 gallons and 443.8 pounds of coatings per hour.
- (d) One (1) D-line paint booth, identified as U005, constructed in 1996, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S005a, capacity: 7.68 gallons and 82.0 pounds of coatings per hour.
- (e) One (1) counter-weight paint line, identified as U013, constructed in 2006, consisting of:
 - (1) One (1) paint booth, identified as U013a, constructed in 2006, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting through stack S013b, capacity: 15 gallons of coating per hour.
 - (2) One (1) paint booth, identified as U013b, constructed in 2006, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting to stack S013d, capacity: 15 gallons of coating per hour.
 - (3) Three (3) infrared ovens, each exhausting to one (1) stack, S013a, S013c and S013e.
- (f) One (1) Repair Spray Booth, identified as U014, constructed in 2007, equipped with air-assisted airless spray guns and dry filters as over spray control, exhausting to stack S014, maximum coating usage: seven (7) gallons per hour (gal/hr).

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

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

- (a) Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator.
- (b) All solvents sprayed from the application equipment of six (6) surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.
- (c) Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for

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coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:

- (1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
- (2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
- (3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
- (4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
- (5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

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

- (a) Pursuant to 326 IAC 6-3-2(d), the horizontal water curtains with downdraft water-floors followed by demisters for particulate control shall be operation in accordance with manufacturer's specifications and control emissions from the one (1) primer coat paint booth, identified as U001, and one (1) topcoat paint booth, identified as U002, at all times when the paint booths are in operation.
- (b) Pursuant to 326 IAC 6-3-2(d), the dry filters for particulate control shall be operation in accordance with manufacturer's specifications and control emissions from the one (1) touch-up paint booth, identified as U004, one (1) D-Line paint booth, identified as U005, one (1) counter-weight paint line, identified as U013, and one (1) Repair Spray Booth, identified as U014, at all times when the paint booths are in operation.

D.1.3 PSD Minor Limit [326 IAC 2-2]

Pursuant to 326 IAC 2-2, the Permittee shall comply with the following conditions:

VOC input to the surface coating facilities at this source (U001, U002, U004, U005, U013 and U014) shall be less than 243 tons of VOC, total, including coatings, dilution solvents, and cleaning solvents, per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit and potential emissions of VOC from other emission units, will limit the potential to emit of VOC for the entire source to less than 250 tons per year each and render the requirements of 326 IAC 2-2, (PSD) not applicable to the entire source.

D.1.4 HAPs Minor Limit [40 CFR 63]

- (a) The input of each individual organic HAP at the six (6) surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, shall not exceed 9.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The input of total organic HAP at the six (6) surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, shall not exceed 18.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, in conjunction with Conditions D.2.2 and D.3.2, and potential HAPs emissions from other emission units, will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons

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per year, respectively, and makes the source an area source for HAPs.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirements [326 IAC 2-7-5-(1)]

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.1.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

When applying noncompliant coatings, compliance with the VOC content limit in condition D.1.1 and D.1.3 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using the volume weighted average of coatings on a daily basis. This volume weighted average shall be determined by the following equation:

$$A = [\sum (c \times U) / \sum U]$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied; and

U is the usage rate of the coating in gallons per day.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

D.1.8 Monitoring [40 CFR 64] [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the dry filters and water curtains. To monitor the performance of the dry filters and water curtains, weekly observations shall be made of the overspray from the touch-up paint booth, primer coat paint booth, top coat paint booth, counter-weight paint booth and repair spray booth stacks while the booth exhausting to that stack is in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.9 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- (a) To document the compliance status with Conditions D.1.1, D.1.3, D.1.4 and D.1.7, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient

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to establish compliance with the VOC and HAP usage limits and the VOC content limit established in Conditions D.1.1, D.1.3, D.1.4 and D.1.7. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

- (1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (2) A log of the dates of use;
 - (3) The volume weighted VOC content of the coatings used for each month;
 - (4) The cleanup solvent usage for each month; and
 - (5) The total VOC usage for each month.
 - (6) The individual HAP, and total HAP usage for each month.
- (b) To document the compliance status with Condition D.1.8, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections. The Permittee shall include in its logs when an observation or inspection is not made and the reason for the lack of a required observation or inspection, (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.1.10 Reporting Requirements [326 IAC 2 7 5(3)] [326 IAC 2 7 19]

A quarterly report of the information to document the compliance status with Conditions D.1.3 and D.1.4 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

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SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Shot Blasting

- (a) One (1) shot blast cabinet, identified as finger bar shot blast (previously identified as U015), constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.
- (b) One (1) steel shot blast unit, identified as mast rail shot blast (previously identified as U011), constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 PSD Minor Limit [326 IAC 2-2][326 IAC 6-3-2]

- (a) The PM emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 4.62 lb/hr ,
- (b) PM10/PM2.5 emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 3.97 lb/hr,
- (c) The PM emissions from the one (1) steel shot blast unit, identified as finger bar shot blast , shall not exceed 0.23 lb/hr, and
- (d) PM10/2.5 emissions from the one (1) steel shot blast unit, identified as finger bar shot blast, shall not exceed 0.23 lb/hr.

Compliance with this limit and potential emissions of PM, PM10, and PM2.5 from other emission units, will limit the potential to emit of PM, PM10 and PM2.5 for the entire source to less than 250 tons per year, each, from the entire source and renders the requirements of 326 IAC 2-2(PSD) not applicable to the entire source.

The above condition will also satisfy the rule 326 IAC 6-3-2.

D.2.2 HAPs Minor Limit

- (a) The emission of each individual HAP from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 0.092 pounds per hour and the emissions of total HAP shall not exceed 0.184 pounds per hour.
- (b) The emission of each individual HAP from the one (1) steel shot blast unit, identified as finger bar shot blast, shall not exceed 0.002 pounds per hour and the emissions of total HAP shall not exceed 0.003 pounds per hour.

Compliance with these limits, in conjunction with Conditions D.1.4 and D.3.2, and potential HAPs emissions from other emission units, will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and makes the source an area source for HAPs.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

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Compliance Determination Requirements

D.2.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to ensure compliance with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C011) must be in operation at all times and control particulate emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, at all times when mast rail shot blast is in operation.
- (b) In order to ensure compliance with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C015) must be in operation at all times and control particulate emissions from the one (1) steel shot blast unit, identified as finger bar shot blast, at all times when finger bar shot blast is in operation.
- (c) In the event that filter 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.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

D.2.5 Dust Collector Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the dust collectors used in conjunction with the two (2) shot blast units, identified as mast rail shot blast and finger bar shot blast, at least once per day when the shot blast unit exhausting to that dust collector is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.
- (b) 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.2.6 Broken or Failed Dust Collector 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).

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

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Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.7 Record Keeping Requirements [326 IAC 2 7 5(3)] [326 IAC 2 7 19]

- (a) To document the compliance status with Condition D.2.5, the Permittee shall maintain records of once per day of the pressure drop during normal operation when the dust collector is in operation. The Permittee shall include in its log when a visible emission notation is not made and the reason for the lack of a visible emission notation, (e.g. the process did not operate that day).

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

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SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

A.3 Specifically Regulated Insignificant Activities [326 IAC 2 7 1(21)][326 IAC 2 7 4(c)] [326 IAC 2-7-5(14)]

PLANT 1

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. Emission units with a plant-wide total heat input capacity of 177.95 million British thermal units per hour, including one (1) natural gas-fired boiler, constructed in 2014, with a maximum capacity of 1.7 million British thermal units per hour and two (2) boilers, constructed in 1989, rated at 0.75 million British thermal units per hour, each. [326 IAC 6-2-4]

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the two (2) 0.75 million British thermal units per hour heat input and one (1) 1.7 million British thermal units per hour heat input ,boilers shall be limited to 0.6 pounds per million British thermal units heat input, each.

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

A.4 Other Insignificant Activities

PLANT 1

(e) Other activities or categories with emissions equal to or less than the insignificant activity thresholds:

- (1) 167 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
- (2) 25 robotic MIG welders constructed in 1997.
- (3) 2 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
- (4) 56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved in 2016 for construction.
- (5) 13 robotic MIG welders approved in 2016 for construction.

Plant 2

(b) One (1) robotic welder with a maximum capacity of 2 pounds of weld wire per hour.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 HAPs Minor Limit [40 CFR 63]

The total weld wire and rod usage shall not exceed 20,000,000 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month, the individual metallic HAP emissions shall not exceed 0.000318 pounds per pound of weld wire or rod used and the total metallic HAP emissions shall not exceed 0.000320 pounds per pound of weld wire or rod used.

Compliance with this limit and conditions D.1.4 and D.2.2, together with potential HAPs emissions from other emission units will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and makes an area source under Section 126 of CAA .

D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.3 Record Keeping Requirements [326 IAC 2 7 5(3)] [326 IAC 2-7-19]

- (a) To document the compliance status with Condition D.4.1, the Permittee shall maintain monthly records the amount of weld wire or rod used.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

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D.4.4 Reporting Requirements [326 IAC 2 7 5(3)] [326 IAC 2-7- 19]

A quarterly report of the information to document the compliance status with Conditions D.4.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

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SECTION E.1 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description:

- (c) One (1) natural gas-fired emergency generator, constructed in July 1, 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ, this is an affected source.]

[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

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

New Source Performance Standards (NSPS) Requirements [326 IAC 12-1]

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

- (a) Pursuant to 40 CFR 60, Subpart JJJJ, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for the natural gas-fired emergency generator (EMG-1) as specified in Appendix A of 40 CFR Part 60, in accordance with the schedule in 40 CFR 60, Subpart JJJJ.

- (b) Pursuant to 40 CFR 60.4, 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 NSPS (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines [40 CFR Part 60, Subpart JJJJ] [326 IAC 12-1])

Pursuant to 40 CFR Part 60, Subpart JJJJ, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart JJJJ, which are incorporated by reference as 326 IAC 12-1-1 (as attachment A to this permit) for the natural gas-fired emergency generator (EMG-1) as specified as follows:

- (a) 40 CFR 60.4230(a)(4)(iv)
- (b) 40 CFR 60.4233(e)
- (c) 40 CFR 60.4234
- (d) 40 CFR 60.4235
- (e) 40 CFR 60.4236 (c)
- (f) 40 CFR 60.4237(b)
- (g) 40 CFR 60.4243(b)(2)(i), (d)(1),(2)(i), (ii), and (iii), (e), (f)
- (h) 40 CFR 60.4245 (a)(1), (2), and (3)
- (i) 40 CFR 60.4246
- (j) 40 CFR 60.4248
- (k) Table 1
- (l) Table 2
- (m) Table 3

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SECTION E.2 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description:

- (c) One (1) natural gas-fired emergency generator, constructed in July 1, 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ, this is an affected source.]

[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

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

National Emission Standards for Hazardous Air Pollutants (NESHAPs) Requirements [326 IAC 2-5.5-4(1)]

E.2.1 General Provisions Relating to 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 63.11510, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-82, for the natural gas-fired emergency generator (EMG-1), as specified in 40 CFR Part 63, Subpart ZZZZ, in accordance with the schedule in 40 CFR Part 63, Subpart ZZZZ.
- (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, IN 46204-2251

E.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAPs): National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [326 IAC 20-82-1] [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR Part 63, Subpart ZZZZ, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart ZZZZ, (included as Attachment B to this permit), for the natural gas-fired emergency generator (EMG-1), as specified as follows.

- (a) 40 CFR 63.6580
(b) 40 CFR 63.6585
(c) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
(d) 40 CFR 63.6595(a)(7)
(e) 40 CFR 63.6665
(f) 40 CFR 63.6670
(g) 40 CFR 63.6675

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
Part 70 Permit No.: T005-30305-00040

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:

Phone:

Date:

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**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**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
Part 70 Permit No.: T005-30305-00040

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), no later than four (4) 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 no later than two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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:

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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
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: _____

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

Part 70 Quarterly Report

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
Part 70 Permit No.: T005-30305-00040
Facilities: Six (6) Surface Coating Processes (U001, U002, U004, U005, U013 & U014)
Parameter: VOC Input
Limit: 243 tons of VOC, total, including coatings, dilution solvents, and cleaning solvents, per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER : _____

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
Part 70 Permit No.: T005-30305-00040
Facilities: Six (6) Surface Coating Processes (U001, U002, U004, U005, U013 & U014)
Parameter: HAP Input
Limit: Single HAP shall not exceed 9.90 and total HAP shall not exceed 18 tons per twelve consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1	Single HAP		
	Total HAPs		
Month 2	Single HAP		
	Total HAPs		
Month 3	Single HAP		
	Total HAPs		

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
Part 70 Permit No.: T005-30305-00040
Facilities: Welding Operations
Parameter: weld wire and rod usage
Limit: 20,000,000 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER : _____

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

PART 70 OPERATING PERMIT

QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
Part 70 Permit No.: T005-30305-00040

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

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. 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".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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:	

DRAFT

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 Part 70 Operating Permit Renewal
and Significant Source Modification

Source Background and Description

Source Name:	Toyota Industrial Equipment Manufacturing, Inc.
Source Location:	5555 Inwood Drive, Columbus, Indiana 47202
County:	Bartholomew County
SIC Code:	3537(Industrial Trucks, Tractors, Trailers and stackers)
Significant Source Modification No.:	005-36810-00040
Permit Renewal No.:	T005-36701-00040
Permit Reviewer:	Anh Nguyen

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Toyota Industrial Equipment Manufacturing, Inc. relating to the operation of a stationary Industrial Truck Manufacturing source. On January 13, 2016, Toyota Industrial Equipment Manufacturing, Inc. submitted an application to the OAQ requesting to renew its operating permit. Toyota Industrial Equipment Manufacturing, Inc. was issued its second Part 70 Operating Permit Renewal T005-30305-00040 on October 11, 2011.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

PLANT 1

- (a) One (1) primer coat paint booth, identified as U001, constructed in 1989, equipped with a robotic spray system using air assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S001a and S001b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (b) One (1) top coat paint booth, identified as U002, constructed in 1989, equipped with air-assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S002a and S002b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (c) One (1) touch-up paint booth, identified as U004, constructed in 1989, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S004, capacity: 42.1 gallons and 443.8 pounds of coatings per hour.
- (d) One (1) D-line paint booth, identified as U005, constructed in 1996, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S005a, capacity: 7.68 gallons and 82.0 pounds of coatings per hour.
- (e) One (1) counter-weight paint line, identified as U013, constructed in 2006, consisting of:
 - (1) One (1) paint booth, identified as U013a, constructed in 2006, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting through stack S013b, capacity: 15 gallons of coating per hour.

- (2) One (1) paint booth, identified as U013b, constructed in 2006, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting to stack S013d, capacity: 15 gallons of coating per hour.
- (3) Three (3) infrared ovens, each exhausting to one (1) stack, S013a, S013c and S013e.
- (f) One (1) compressed natural gas (CNG) fueling station for the one (1) time filling of fork lift fuel tanks and the testing of the CNG forklift engines, constructed in 2003, maximum capacity: one thousand (1,000) forklift fuel tanks per twelve (12) consecutive month period, and heat input capacities no more than 0.521 million British thermal units per hour per engine.
- (g) One (1) Repair Spray Booth, identified as U014, constructed in 2007, equipped with air-assisted airless spray guns and dry filters as over spray control, exhausting to stack S014, maximum coating usage: seven (7) gallons per hour (gal/hr).

PLANT 2

- (h) One (1) shot blast cabinet, identified as finger bar shot blast (previously identified as U015), constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.
- (i) One (1) steel shot blast unit, identified as mast rail shot blast (previously identified as U011), constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

- (a) One (1) large parts shot blast cabinet, identified as U009, constructed in 1989, exhausting to a cartridge dust collector (C009) and exiting inside the building, capacity: 132,000 pounds of steel shot per hour.

Insignificant Activities

The source also consists of the following insignificant activities:

PLANT 1

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. Emission units with a plant-wide total heat input capacity of 177.95 million British thermal units per hour, including, one (1) natural gas-fired boiler, constructed in 2014, with a maximum capacity of 1.7 million British thermal units per hour and two (2) boilers, constructed in 1989, rated at 0.75 million British thermal units per hour, each. [326 IAC 6-2-4]
- (b) One (1) natural gas-fired emergency generator, constructed in 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ, this is an affected source.]

[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

ENTIRE SOURCE

- (c) Paved and unpaved roads. [326 IAC 6-4]

Other Insignificant Activities

Plant 1

- (a) One (1) solvent recovery system, constructed in 2015, identified as SRS-1, with a maximum batch size of 20 gallons with emissions included in the surface coating operations.
- (b) Powder Coating Lines
- (1) One (1) self-contained powder coat line, identified as Small Parts Powder Coat or SPPC (previously identified as I011), constructed in 1996, containing two (2) reclaim booths and one (1) non-reclaim booth with a capacity of 84.0 pounds of powder per hour, per booth and total controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:
- (a) One (1) five (5)-stage iron phosphate spray washer, with a capacity of 18,573 gallons of alkaline materials per year;
- (b) One (1) hot water generator, with a heat input capacity of 4 million British thermal units per hour;
- (c) One (1) natural gas-fired drying oven and bake/cure oven, with a heat input capacity of 2 million British thermal units per hour; and
- (2) One (1) self-contained powder coat line, identified as Mast Rail Powder Coat or MRPC (previously identified as I012), constructed in 1999, containing two (2) reclaim booths with a capacity of 84.0 pounds of powder per hour, per booth and total controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:
- (a) One (1) five (5)-stage iron phosphate washer, with a capacity of 25,606 gallons of alkaline materials per year;
- (b) One (1) hot water generator, with a heat input capacity of 4 million British thermal units per hour; and
- (c) One (1) natural gas-fired drying oven and bake/cure oven, with a heat input capacity of 2 million British thermal units per hour.
- (c) One (1) four-stage iron phosphate washer (only), identified as #7 frame washer, installed in 2000, using non-VOC cleaners, with a capacity of 22,732 gallons of alkaline material per year.
- (d) One (1) 4- stage Iron Phosphate Spray Washer, approved in 2016 for construction, with potential annual usage of 9,472 gallons of alkaline material per year, and no add-on control.
- (e) Other activities or categories with emissions equal to or less than the insignificant activity thresholds:

- (1) 167 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
- (2) 25 robotic MIG welders constructed in 1997.
- (3) 2 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
- (4) 56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved in 2016 for construction.
- (5) 13 robotic MIG welders approved in 2016 for construction.

Plant 2

- (a) Six laser cutting machines, constructed in 2011, emissions controlled by a dust collector, exhausting indoors.
- (b) One (1) robotic welder with a maximum capacity of 2 pounds of weld wire per hour.

Existing Approvals

Since the issuance of the Part 70 Operating Permit T005-30305-00040 on October 11, 2011, the source has constructed or has been operating under the following additional approvals:

- (a) Significant Source Modification No. 005-30614-00040, issued on September 21, 2011;
- (b) Administrative Amendment No. 005-31536-00040, issued on February 28, 2012;
- (c) Administrative Amendment No. 005-32849-00040, issued on March 19, 2013;
- (d) Administrative Amendment No. 005-34645-00040, issued on July 23, 2014; and
- (e) Significant Permit Modification No. 005-36011-00040, issued on November 10, 2015.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Air Pollution Control Justification as an Integral Part of the Process

Administrative Amendment No.: 005-15791-00040, issued on April 25, 2002, IDEM, OAQ previously determined that the control device for an integral part of the Powder Coating Line, identified as I011.

IDEM, OAQ is not reevaluating the integral justification at this time. Therefore, the potential particulate matter emissions from the Powder Coating Line, identified as I011, will continue to be calculated after consideration of the cartridge filtration system for purposes of determining permitting level and applicability.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Bartholomew County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
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.
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. Bartholomew 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}**
Bartholomew County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
Bartholomew County has been classified as attainment or unclassifiable in Indiana for PM₁₀, NO_x, SO₂, CO, and Pb. 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.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	4,108
PM ₁₀	3,731
PM _{2.5}	3,731
SO ₂	1.00
NO _x	78.00
VOC	2,479
CO	66
Single HAP	307
Total HAP	380

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

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

- (a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of PM, PM10/PM2.5, VOC, is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Actual Emissions

The following table shows the actual emissions as reported by the source. This information reflects the 2014 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	-
PM ₁₀	1
PM _{2.5}	1
SO ₂	-
NO _x	-
VOC	49
CO	-
HAP	-

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Toyota Industrial Equipment Manufacturing, Inc. on January 12, 2016, relating to the addition of welding equipment, natural gas combustion, and a phosphate washer. The following is a list of the proposed emission units:

- (a) 56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved in 2016 for construction.
- (b) 13 robotic MIG welders approved in 2016 for construction.
- (c) One (1) 4- stage Iron Phosphate Spray Washer, approved in 2016 for construction, with potential annual usage of 9,472 gallons of alkaline material per year, and no add-on control.
- (d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, emission units with total heat input capacity of 26.85 million British thermal units per hour, approved in 2016 for construction.

The following are modified emission units:

PLANT 1

There are no changes to the description language. However, the changes are made through quality of material and % VOC usage. The following are affected emission units:

- (a) One (1) primer coat paint booth, identified as U001, constructed in 1989, equipped with a robotic spray system using air assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control,

exhausting to stacks S001a and S001b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.

- (b) One (1) top coat paint booth, identified as U002, constructed in 1989, equipped with air-assisted airless, electrostatic spray guns and a horizontal water curtain with a downdraft water-floor followed by a demister as overspray control, exhausting to stacks S002a and S002b, capacity: 30.7 gallons and 327.9 pounds of coatings per hour.
- (c) One (1) touch-up paint booth, identified as U004, constructed in 1989, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S004, capacity: 42.1 gallons and 443.8 pounds of coatings per hour.
- (d) One (1) D-line paint booth, identified as U005, constructed in 1996, equipped with air-assisted airless spray guns and dry filters as overspray control, exhausting to stack S005a, capacity: 7.68 gallons and 82.0 pounds of coatings per hour.
- (e) One (1) counter-weight paint line, identified as U013, constructed in 2006, consisting of:
 - (1) One (1) paint booth, identified as U013a, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting through stack S013b, capacity: 15 gallons of coating per hour.
 - (2) One (1) paint booth, identified as U013b, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting to stack S013d, capacity: 15 gallons of coating per hour.
- (h) One (1) Repair Spray Booth, identified as U014, to be constructed in 2007, equipped with air-assisted airless spray guns and dry filters as over spray control, exhausting to stack S014, maximum coating usage: seven (7) gallons per hour (gal/hr).
- (a) One (1) solvent recovery system, constructed July 1, 2015, identified as SRS-1, with a maximum batch size of 17 gallons with emissions included in the surface coating operations.

Insignificant Activities

- (f) One (1) five (5)-stage iron phosphate spray washer, with a capacity of ~~46,933~~ **18,573** gallons of alkaline materials per year;
- (g) One (1) five (5)-stage iron phosphate washer, with a capacity of ~~45,156~~ **25,606** gallons of alkaline materials per year;
- (h) One (1) four-stage iron phosphate washer (only), identified as #7 frame washer, installed in 2000, using non-VOC cleaners, **with a capacity of 22,732 gallons of alkaline material per year.**

Source Status Prior to the Modification

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

Pollutant	Emissions (ton/yr)
PM	239
PM ₁₀	233
PM _{2.5}	232
SO ₂	0.40
NO _x	66.76
VOC	<250
CO	56.57
HAPs (Mn)	<10
Total	<25

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

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

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant, is emitted at a rate of two hundred fifty (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) These emissions are based upon Significant Permit Modification No. 005-36011-00040, issued on November 10, 2015.
- (c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are 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).

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

PTE Before Controls of the New Emission units	
Pollutant	Potential To Emit (ton/yr)
PM	33.77
PM ₁₀	34.43
PM _{2.5}	34.43
SO ₂	0.07
VOC	0.63
CO	9.68
NO _x	11.53
Single HAP	2.03
Total HAPs	2.26

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

PTE Change of the Modified Process			
Pollutant	PTE Before Modification (ton/yr)	PTE After Modification (ton/yr)	Increase from Modification (ton/yr)
PM	1,295	1218	0.00
PM ₁₀	1,295	1218	0.00
PM _{2.5}	1,295	1218	0.00
SO ₂	0.00	0.00	0.00
VOC	3004	2527	0.00
CO	0.00	0.00	0.00
NO _x	0.00	0.00	0.00
Single HAP	350	307	0.00
Total HAPs	410	322	0.00

Total PTE Increase due to the Modification			
Pollutant	PTE New Emission Units (ton/yr)	Increase to PTE of Modified Emission Units (ton/yr)	Total PTE for New and Modified Units (ton/yr)
PM	33.77	0.00	33.77
PM ₁₀	34.43	0.00	34.43
PM _{2.5}	34.43	0.00	34.43
SO ₂	0.07	0.00	0.07
VOC	0.63	0.00	0.63
CO	9.68	0.00	9.68
NO _x	11.53	0.00	11.53
Single HAP	2.03	0.00	2.03
Total HAPs	2.26	0.00	2.26

This source modification is subject to 326 IAC 2-7-10.5(g)(4); because, the potential to emit of PM/PM10/PM2.5 are greater than 25 tons per year. However, the PM, PM10, and PM2.5 limits have been removed as the control efficiency for controlling particulate matter from the paint booths is 90%, which is lower than the normal efficiency achieved by this type of control. The modification will be incorporated into the Part 70 Operating Permit through the Part 70 Operating Permit Renewal.

The Part 70 Operating Permit Renewal itself will grant the source the appropriate operating approval for the proposed modification. Therefore, a distinct significant permit modification will not be issued.

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Potential to Emit of the Proposed Units (TPY)										
Process / Emission Unit	PM	PM₁₀	PM_{2.5}*	SO₂	NO_x	VOC	CO	Total HAP	Single HAP	
Phosphate Wash	0.40	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weldings **	33.15	33.15	33.15	0.00	0.00	0.00	0.00	2.04	2.03	Manganese
NG combustion units	0.22	0.89	0.89	0.07	11.53	0.63	9.68	0.22	0.00	0.00
Total of Modified units	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total for Modification	33.77	34.43	34.43	0.07	11.71	0.63	9.68	2.26	2.03	Manganese
PSD Major Source Thresholds	250	250	250	250	250	250	250	---		

*PM_{2.5} listed is direct PM_{2.5}.

** Maximum electrode consumption for all weldings at the source are limited to 20,000,000 pounds per year

- (a) On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court’s decision. U.S. EPA’s guidance states that U.S. EPA will no longer require PSD or Title V permits for sources “previously classified as ‘Major’ based solely on greenhouse gas emissions.”

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

Process/ Emission Unit	Limited Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)								
	PM	PM ₁₀ *	PM _{2.5} **	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Unpaved	0.84	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE - Entire Source	209	207	206	0.46	77.17	5.34	65.31	23.48	9.90 Glycol ether
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}.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

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

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (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) These emissions are based upon TSD Appendix A.
- (c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are 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).
- (d) These emissions are based upon TSD Appendix A TSD for Significant Source Modification No.: 005-36810-00040.

Federal Rule Applicability

CAM 40 [CFR 64.2]

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:

- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.
- (b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.
- (c) Pursuant to 40 CFR 64.2(b)(1)(iii), Acid Rain requirements pursuant to Sections 404, 405, 406, 407(a), 407(b), or 410 of the Clean Air Act are exempt emission limitations or standards. Therefore, CAM was not evaluated for emission limitations or standards for SO₂ and NO_x under the Acid Rain Program.
- (d) Pursuant to 40 CFR 64.3(d), if a continuous emission monitoring system (CEMS) is required pursuant to other federal or state authority, the owner or operator shall use the CEMS to satisfy the requirements of CAM according to the criteria contained in 40 CFR 64.3(d).

The following table is used to identify the applicability of CAM to each existing emission unit and each emission limitation or standard for a specified pollutant based on the criteria specified under 40 CFR 64.2:

Emission Unit / Pollutant	Control Device Used	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Paint Booth U001 / PM	water curtain	326 IAC 2-2	251	25.14	N	N
Paint Booth U002 / PM	water curtain	326 IAC 2-2	251	25.14	N	N
Paint Booth U004 / PM	DF	326 IAC 2-2	345	34.47	N	N
Paint Booth U005/ PM	DF	326 IAC 2-2	63	6.29	N	N
Paint Booth U013a/ PM	DF	326 IAC 2-2	123	12.28	N	N
Paint Booth U013b / PM	DF	326 IAC 2-2	123	12.28	N	N
Spray Booth U014/ PM	DF	326 IAC 2-2	57.31	5.17	N	N
Small Parts Powder Coat	inherent	326 IAC 6-3-2	33.1	0.017	N	N
Mast Rail Powder Coat	inherent	326 IAC 6-3-2	33.1	0.017	N	N
Shot Blaster U011/ PM	BH	326 IAC 6-3-2	1,741	17.39	Y	N
Shot Blaster U011/ PM	BH	326 IAC 6-3-2	2,024	20.24	Y	N
Shot Blaster U015/ PM	BH	326 IAC 6-3-2	579	1.00	Y	N
Shot Blaster U015/ PM	BH	326 IAC 6-3-2	673	1.00	Y	N

Emission Unit / Pollutant	Control Device Used	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Uncontrolled PTE (tpy) and controlled PTE (tpy) are evaluated against the Major Source Threshold for each pollutant. Major Source Threshold for criteria pollutants (PM10, PM2.5, SO2, NOX, VOC and CO) is 100 tpy, for a single HAP ten (10) tpy, and for total HAPs twenty-five (25) tpy.						
N ¹	PM, PM10, and PM2.5 limits have been removed as the control efficiency for controlling particulate matter from the paint booths is 90%, which is lower than the normal efficiency achieved by this type of control.					
N ²	Pursuant to 40 CFR Part 64.1, the control devices are considered to be inherent process equipment. Therefore, based on the evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable.					
Controls:	BH = Baghouse, C = Cyclone, DC = Dust Collection System, RTO = Regenerative or Recuperative Thermal Oxidizer, WS = Wet Scrubber, ESP = Electrostatic Precipitator, DF = Dry Filter					
Emission units without air pollution controls are not subject to CAM. Therefore, they are not listed.						

Inherent Process Equipment

Pursuant to 40 CFR Part 64.1, the definition of inherent process equipment is "equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations. Equipment that must be operated at an efficiency higher than that achieved during normal process operations in order to comply with the applicable emission limitation or standard is not inherent process equipment. For the purposes of this part, inherent process equipment is not considered subject to CAM."

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the Shot Blaster Units U011 and U015 for PM. A CAM plan has been submitted and the Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM requirements.

The requirements of 40 CFR Part 64, CAM are not applicable to VOC emissions from all the paint booths because there are no control devices used.

Each of the new emission units ; Weldings, Natural gas Combustion units, the new phosphate washer are uncontrolled. Based on this, the requirements of 40 CFR Part 64, CAM are not applicable to any of the these units as part of this renewal..

All other emission units have an uncontrolled potential to emit of less than 100 TPY for criteria pollutants or or their emissions are uncontrolled.

The unrestricted potential to emit single HAP is less than the major source threshold of ten (10) tons per year, and the unrestricted potential to emit combined HAPs is less than the major source threshold of twenty-five (25) tons per year, from the Weldings, Natural gas Combustion units, the new phosphate washer; therefore, the requirements of 40 CFR Part 64, CAM, are not applicable to these emission units for single HAP and combined HAPs.

New Source Performance Standards (NSPS) [326 IAC 12 and 40 CFR Part 60]

- (a) The natural gas-fired emergency generator, identified as EMG-1, is still subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines(40 CFR 60, Subpart JJJJ) which is incorporated by reference as 326 IAC 12-1-1 that is manufactured on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP)

The unit subject to this rule include the following:

- (1) One (1) natural gas-fired emergency generator, constructed in July 1, 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

The above emission unit is subject to the following:

- (a) 40 CFR 60.4230(a)(4)(iv)
- (b) 40 CFR 60.4233(a)
- (c) 40 CFR 60.4234
- (d) 40 CFR 60.4235
- (e) 40 CFR 60.4237(c)
- (f) 40 CFR 60.4243(a)(1), (d)(1),(2)(i), (ii), and (iii), (3), (e)
- (g) 40 CFR 60.4245 (a)(1), (2), and (3)
- (h) 40 CFR 60.4246
- (i) 40 CFR 60.4248
- (j) Table 2
- (k) Table 3

The provisions of 40 CFR 60 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60 Subpart JJJJ

- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

National Emission Standards for Hazardous Air Pollutants (NESHAPs) [326 IAC 14, 326 IAC 20 and 40 CFR Part 63 (b)]

- (c) The natural gas-fired emergency generator, identified as EMG-1, is still subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), which is incorporated by reference as 326 IAC 20-82 because it is considered new stationary reciprocating internal combustion engine (RICE) at an area source of hazardous air pollutants (HAP) constructed on or after June 12, 2006, shall meet the following requirements.

The unit subject to this rule include the following:

- (1) One (1) natural gas-fired emergency generator, constructed in July 1, 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

The above emission unit is subject to the following:

- (a) 40 CFR 63.6580
- (b) 40 CFR 63.6585 (a), (c),
- (c) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
- (d) 40 CFR 63.6595(a)(7)
- (e) 40 CFR 63.6665 Table 8
- (f) 40 CFR 63.6670
- (g) 40 CFR 63.6675

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart ZZZZ.

- (d) The applicant has requested to continue limit on the potential to emit each individual HAP to less than ten (10) tons per year and total HAPs to less than twenty-five (25) tons per year. As a result of these limits, this source continued to be an area source of HAPs prior to the January 2, 2007, the compliance date for 40 CFR 63, Subpart MMMM, National

Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. The following HAP minor limit will result in this source being an area source:

The total weld wire and rod usage shall not exceed 20,000,000 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month, the individual metallic HAP emissions shall not exceed 0.000318 pounds per pound of weld wire or rod used and the total metallic HAP emissions shall not exceed 0.000320 pounds per pound of weld wire or rod used.

Compliance with these conditions will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and renders 40 CFR 63, Subpart M not applicable.

- (e) The requirements of 40 CFR 63, Subpart T, NESHAP for Halogenated Solvent Cleaning (40 CFR 63.460 through 63.470) (316 IAC 20-6-1) are not included in the permit, since this new phosphate washer does not use a cleaning solvent that contains any of the halogenated compounds listed in 40 CFR 63.460(a).
- (f) This source is not subject to the National Emission Standards for Hazardous Air Pollutants for Nine Metal Fabrication and Finishing Source Categories (40 CFR 63.11514, Subpart XXXXXX), because they are under SIC code 3537, which is not one of the nine source categories listed in 40 CFR 63.11514.
- (g) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

State Rule Applicability - Entire Source

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)

- (a) VOC Minor limit

VOC input to the surface coating facilities at this source (U001, U002, U004, U005, U013 and U014) shall be less than 243 tons of VOC, total, including coatings, dilution solvents, and cleaning solvents, per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit and potential emissions of VOC from other emission units, will limit the potential to emit of VOC for the entire source to less than 250 tons per year, each, from the entire source and renders 326 IAC 2-2, PSD not applicable to the entire source.

- (b) HAP Minor Limit

- (1) The input of each individual organic HAP at the six (6) surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, shall not exceed 9.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

- (2) The input of total organic HAP at the six (6) surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, shall not exceed 18.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each

month.

- (3) The total weld wire and rod usage shall not exceed 20,000,000 pounds per twelve (12) consecutive month period, with compliance determined at the end of each month, the individual metallic HAP emissions shall not exceed 0.000318 pounds per pound of weld wire or rod used and the total HAP emissions shall not exceed 0.000320 pounds per pound of weld wire or rod used.

Compliance with this limit and potential HAPs emissions from other emission units will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and makes an area source under Section 126 of CAA and also renders 40 CFR 63, Subpart M not applicable to the surface coating facilities identified as U001, U002, U004, U005, U013 and U014.

(c) PM/ PM10/PM2.5 Minor Limit

- (1) The PM emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 4.62 lb/hr ,
- (2) PM10/PM2.5 emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 3.97 lb/hr,
- (3) The PM emissions from the one (1) steel shot blast unit, identified as finger bar shot blast , shall not exceed 0.23 lb/hr, and
- (4) PM10/2.5 emissions from the one (1) steel shot blast unit, identified as finger bar shot blast, shall not exceed 0.23 lb/hr.

Compliance with this limit and potential emissions of PM, PM10, and PM2.5 from other emission units, will limit the potential to emit of PM, PM10 and PM2.5 for the entire source to less than 250 tons per year, each, from the entire source and renders the requirements of 326 IAC 2-2(PSD) not applicable to the entire source.

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

- (a) None of the new emission units; Weldings, Phosphate Spray Washer, natural gas-fired combustions units are subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from each of the emissions units is less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply to the these units
- (b) The three paint booths identified as U013a and U013b, both constructed in 2006, and Repair spray booth, identified as U014 constructed in 2007. Pursuant to SPM 005-22010-00040, issued on February, 28, 2006, and MPM 005-24998-00040, issued on December 7, 2007, the individual HAP usage at each booth, is limited to less than ten (10) tons per twelve (12) consecutive month period, with compliance determined at the end of each month, and the total HAPs usage at each booth, is limited to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, 326 IAC 2-4.1 does not apply to each of these units.
- (c) All other coating lines (U001, U002, U004, and U005), were constructed prior to July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.
- (d) Pursuant to SSM 005-7545-00040, issued on April, 14, 1999, the one (1) steel shot blast unit, identified as mast rail shot blast (previously identified as U011), constructed in 1999. The individual HAP usage is limited to less than ten (10) tons per twelve (12) consecutive

month period, with compliance determined at the end of each month, and the total HAPs usage at each booth, is limited to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, 326 IAC 2-4.1 does not apply to this unit.

- (e) The one (1) steel shot blast units, identified as finger bar shot blast (previously identified as U015), constructed in 2011. The unlimited potential to emit of HAPs is less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply to the this unit

326 IAC 2-6 (Emission Reporting)

Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-6(5) (Annual Compliance Certification)

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certification that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(1)

326 IAC 6.5 PM Limitations Except Lake County

This source is not subject to 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 6.8 PM Limitations for Lake County

This source is not subject to 326 IAC 6.8 because it is not located in Lake County.

State Rule Applicability – Individual Facilities

Paint Booths

326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicators at the six (6) existing surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, with a total potential to emit more than 15 pounds per day of VOC, shall be limited to 3.5 pounds of VOCs per gallon of coating less water.

Based on the MSDS submitted by the source and calculations made, each of the surface coating facilities is able to comply with this requirement.

Steel Shot Blast

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the steel shot blast units, identified as mast rail shot blast (previously identified as U011) and as finger bar shot blast (previously identified as U015), shall not exceed the rate of emission in pounds per hour calculated by one of the following equations:

- (1) Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

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

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

Pursuant to 326 IAC 6-3-2(e)(3), when the process weight exceeds 200 tons per hour, the maximum allowable emissions may exceed the emission limits shown paragraph (1), provided the concentration of particulate matter in the gas discharged to the atmosphere is less than 0.10 pounds per 1,000 pounds of gases.

Welding Operations

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) The potential emissions from each welding machine are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14) each welding emission unit is exempt from the requirements of 326 IAC 6-3.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

Each welding operation does not have potential emissions of twenty-five (25) tons or more per year of VOC. Therefore, none of the welding operations are subject to the requirements of 326 IAC 8-1-6.

New Phosphate Washer

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

The potential emissions from the new phosphate washer and existing phosphates washers are less than 0.551 pounds per hour, each. Therefore, pursuant to 326 IAC 6-3-1(b)(14) this operation is exempt from the requirements of 326 IAC 6-3.

326 IAC 8-3-2 (Cold Cleaner Operations)

None of the phosphate washer uses organic solvents. Therefore, the requirements of 326 IAC 8-3-2 are not applicable to the new phosphate washer.

Natural gas-fired combustion units

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

- (a) the PM emissions from the two (2) 0.75 million British thermal units per hour heat input boilers, constructed in 1989, and one (1) 1.7 million British thermal units per hour heat input boiler constructed in 2014, are subject to the requirements of 326 IAC 6-2-4 because the unit began operation after September 21, 1983.

Pursuant to 326 IAC 6-2-4(a), particulate emissions from the natural gas-fired boilers each shall be limited to the following:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and
Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input

Boilers	Installation	Q (MMBtu/hr)	Allowed Pt (lb/MMBtu)	Limited (lb/MMBtu)	Applicable Rule
	2014	1.7	0.95	0.60	
	1989	0.75*2	0.98	0.60	

Boilers shall be limited to 0.6 pounds per million British thermal unit heat input, for each Q less than 10 MMBtu/hr.

- (b) All other natural gas fired combustion units are not subject to the requirements of 326-IAC 6-2-4, since these emissions units are not a source of indirect heating.

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

The natural gas-fired combustion units are not subject to 326 IAC 8-1-6 (New Facilities; General Reduction Requirements), because they each have the potential to emit VOC of less than twenty-five (25) tons per year.

326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)

The natural gas-fired combustion units are not subject to 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations) because the potential to emit sulfur dioxide from each natural gas-fired combustion unit is less than twenty-five (25) tons per year and ten (10) pounds per hour.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The Compliance Determination Requirements applicable to this modification are as follows:

Compliance Monitoring Requirements:

Emission Unit	Parameter	Frequency
Paint Booths U001, U002, U004, U013a, U013b [40 CFR 64] U005 and U014	Dry filter and water curtain inspections	Daily
Paint Booths - U001, U002, U004, U013a, U013b [40 CFR 64] U005 and U014	Inspections of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground.	Monthly
Shot Blast Units / U011 and U015 [40 CFR 64] controlled by baghouse	Pressure Drop	Once per day

These monitoring conditions are necessary to ensure compliance with the Prevention of Significant Deterioration (PSD) (326 IAC 2-2) minor limit and HAP minor limit (40 CFR 63) and 326 IAC 6-3-2.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 005-30305-00040. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Modification 1: Removed emission unit

A.2 Emission Units and Pollution Control Equipment Summary
 [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

PLANT 1

- (e) One (1) counter-weight paint line, identified as U013, constructed in 2006, consisting of:
 - (1) One (1) paint booth, identified as U013a, **constructed in 2006**, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting through stack S013b, capacity: 15 gallons of coating per hour.
 - (2) One (1) paint booth, identified as U013b, **constructed in 2006**, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting to stack S013d, capacity: 15 gallons of coating per hour.
- ~~(f) One (1) large parts shot blast cabinet, identified as U009, constructed in 1989, exhausting to a cartridge dust collector (C009) and exiting inside the building, capacity: 132,000 pounds of steel shot per hour.~~
- (gf) One (1) compressed natural gas (CNG) fueling station for the one (1) time filling of fork lift fuel tanks and the testing of the CNG forklift engines, **constructed in 2003**, maximum

capacity: one thousand (1,000) forklift fuel tanks per twelve (12) consecutive month period, and heat input capacities no more than 0.521 million British thermal units per hour per engine.

- (hg) One (1) Repair Spray Booth, identified as U014, ~~to be~~ constructed in 2007, equipped with air-assisted airless spray guns and dry filters as over spray control, exhausting to stack S014, maximum coating usage: seven (7) gallons per hour (gal/hr).

PLANT 2

- (ih) ~~One (1) shot blast cabinet, identified as U015, constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.~~ **One (1) shot blast cabinet, identified as finger bar shot blast (previously identified as U015), constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.**
- (ji) ~~One (1) steel shot blast unit, identified as U011, constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.~~ **One (1) steel shot blast unit, identified as mast rail shot blast (previously identified as U011), constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.**

Modification 2: - Adding new emission units.
- The weldings are insignificant units and will be moved to subsection (e) of section A.4 under "Other Insignificant Activities"

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]

PLANT 1

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. Emission units with a plant-wide total heat input capacity of ~~451.4~~ **177.95** million British thermal units per hour, including, one (1) natural gas-fired boiler, constructed in 2014, with a maximum capacity of 1.7 million British thermal units per hour and two (2) boilers, constructed in 1989, rated at 0.75 million British thermal units per hour, each. [326 IAC 6-2-4]
- ~~(b) Other activities or categories with emissions equal to or less than the insignificant activity thresholds: [326 IAC 6-3-2]~~
 - ~~(1) 167 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997, capacity of 36.7 pounds of weld wire per hour.~~
 - ~~(2) 25 robotic MIG welders constructed in 1997 with a maximum capacity of 26.2 pounds of weld wire per hour.~~
 - ~~(3) 2 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997, capacity of 15.8 pounds of weld wire per hour.~~
- (e b) One (1) natural gas-fired emergency generator, constructed ~~in July 1,~~ 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ, this is an affected

source.]
[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

.....
Modification 3: The following emission units are existing units that were accounted for but their descriptions did not get updated through various modifications. These units as appeared in Significant Permit Modification T005-17756-00040 issued on December 5, 2006 and are affected source during this permit review.

The revised language of the affected emission units will be listed as follow:

A.4 Other Insignificant Activities

.....
Plant 1

(e a) One (1) solvent recovery system, constructed ~~July 1,~~ in 2015, identified as SRS-1, with a maximum batch size of ~~17~~ **20** gallons with emissions included in the surface coating operations.

(b) Powder Coating Lines

(1) ~~One (1) self-contained powder coat line, identified as I011, constructed prior to 1999, controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:~~ **One (1) self-contained powder coat line, identified as Small Parts Powder Coat or SPPC (previously identified as I011), constructed in 1996, containing two (2) reclaim booths and one (1) non-reclaim booth with a capacity of 84.0 pounds of powder per hour, per booth and total controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:**

- (a) One (1) five (5)-stage iron phosphate spray washer, with a capacity of ~~16,933~~ **18,573** gallons of alkaline materials per year;
- (b) One (1) hot water generator, with a heat input capacity of 4 million British thermal units per hour;
- (c) One (1) natural gas-fired drying oven and bake/cure oven, with a heat input capacity of 2 million British thermal units per hour; and
- ~~(d) One (1) self-contained powder coat room, containing two (2) reclaim booths and one (1) non-reclaim booth with a capacity of 84.0 pounds of powder per hour, per booth and total.~~

(2) ~~One (1) powder coat line, identified as I012, constructed prior to 1999, controlled by a two (2)-stage filtration system consisting of HEPA filters in series, exhausting inside the building, including the following:~~ **One (1) self-contained powder coat line, identified as Mast Rail Powder Coat or MRPC (previously identified as I012), constructed in 1999, containing two (2) reclaim booths with a capacity of 84.0 pounds of powder per hour, per booth and total controlled by a two (2)-stage filtration system consisting of HEPA filters in series, integral to the line and exhausting inside the building, including the following:**

- (a) One (1) five (5)-stage iron phosphate washer, with a capacity of ~~45,156~~ **25,606** gallons of alkaline materials per year;

- (b) **One (1) hot water generator, with a heat input capacity of 4 million British thermal units per hour; and**
- (c) **One (1) natural gas-fired drying oven and bake/cure oven, with a heat input capacity of 2 million British thermal units per hour.**

-
- (5c) One (1) four-stage iron phosphate washer (only), identified as #7 frame washer, installed in 2000, using non-VOC cleaners, **with a capacity of 22,732 gallons of alkaline material per year.**
 - (d) **One (1) 4- stage Iron Phosphate Spray Washer, identified as New Washer, approved in 2016 for construction, using non-VOC cleaners, with potential annual usage of 9472 gallons of alkaline material per year.**
 - (e) Other activities or categories with emissions equal to or less than the insignificant activity thresholds:
 - (1) 167 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
 - (2) 25 robotic MIG welders constructed in 1997.
 - (3) 2 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
 - (4) **56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved in 2016 for construction.**
 - (5) **13 robotic MIG welders approved in 2016 for construction.**

Plant 2

- (a) Six laser cutting machines, ~~approved for construction~~ **constructed** in 2011, emissions controlled by a dust collector, exhausting indoors.
- (b) One (1) robotic welders with a maximum capacity of 2 pounds of weld wire per hour.

.....

Modification 4: Replacing old language citations with an updated language.
Separate PM limits from PM10 and PM2.5 limits for clarification.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Surface Coating

- (a)-(d)
- (e) One (1) counter-weight paint line, identified as U013, constructed in 2006, consisting of:
 - (1) One (1) paint booth, identified as U013a, **constructed in 2006**, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting through stack S013b, capacity: 15 gallons of coating per hour.
 - (2) One (1) paint booth, identified as U013b, **constructed in 2006**, equipped with electrostatic air atomized spray guns and a dry filter as overspray control, exhausting to stack S013d, capacity: 15 gallons of coating per hour.

- (3) Three (3) infrared ovens, each exhausting to one (1) stack, S013a, S013c and S013e.
- (f) One (1) Repair Spray Booth, identified as U014, to be constructed in 2007, equipped with air-assisted airless spray guns and dry filters as over spray control, exhausting to stack S014, maximum coating usage: seven (7) gallons per hour (gal/hr).

Emission Limitations and Standards [326 IAC 2-7-5(1)]

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

- (a) Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator.

~~D.1.2 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]~~

- ~~(b) Pursuant to 326 IAC 8-2-9(f), a~~All solvents sprayed from the application equipment of six (6) surface coating facilities, identified as U001, U002, U004, U005, U013 and U014, during cleanup or color changes shall be directed into containers. ~~Said~~ **Such** containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.
- (c) **Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:**
 - (1) **Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.**
 - (2) **Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.**
 - (3) **Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.**
 - (4) **Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.**
 - (5) **Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.**

~~D.4.3~~ 1.2

Modification 5: The following PM and PM10/PM2.5 PSD Minor Limit for surface coating booths U001, 002, 003, 005, U013, and U014 are being removed from the permit because the surface coating facilities have particulate controls efficiency of 90% and the combined PTE emissions are less than the major source threshold. Therefore, the PSD minor limits are not needed to these surface coatings.

D.4.4 1.3 PSD Minor Limit [326 IAC 2-2]

The Permittee shall comply with the following conditions:

- (a) ~~VOC input to the surface coating facilities at this source (U001, U002, U004, U005, U013 and U014) shall be less than 243 tons of VOC, total, including coatings, dilution solvents, and cleaning solvents, per twelve (12) consecutive month period, with compliance determined at the end of each month.~~
- (b) ~~PM, PM10 and PM2.5 emissions from surface coating booth U001 shall not exceed 6.10 lb/hr.~~
- (c) ~~PM, PM10 and PM2.5 emissions from surface coating booth U002 shall not exceed 8.36 lb/hr.~~
- (d) ~~PM, PM10 and PM2.5 emissions from surface coating booth U005 shall not exceed 1.53 lb/hr.~~
- (e) ~~PM, PM10 and PM2.5 emissions from surface coating booth U013a shall not exceed 2.98 lb/hr.~~
- (f) ~~PM, PM10 and PM2.5 emissions from surface coating booth U013b shall not exceed 2.98 lb/hr.~~
- (g) ~~PM, PM10 and PM2.5 emissions from surface coating booth U014 shall not exceed 1.39 lb/hr.~~

Compliance with ~~these conditions in conjunction with Conditions D.2.1, D.3.1 and D.3.2,~~ **this limit** and potential emissions of VOC, ~~PM, PM10, and PM2.5~~ from other emission units, will limit the potential to emit of VOC, ~~PM, PM10 and PM2.5~~ for the entire source to less than 250 tons per year each from the entire source and renders 326 IAC 2-2, PSD not applicable to the entire source.

Modification 6: Remove repetition language

~~D.4.5~~ **1.4** HAPs Minor Limit [40 CFR 63]

(a) - (b)
~~Compliance with this condition, in conjunction with Conditions D.2.2 and D.3.3, and potential HAPs emissions from other emission units will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and renders 40 CFR 63, Subpart M not applicable to the surface coating facilities identified as U001, U002, U004, U005, U013 and U014.~~
Compliance with these limits, in conjunction with Conditions D.2.2 and D.3.2, and potential HAPs emissions from other emission units, will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and makes the source an area source for HAPs.

Compliance Determination Requirements [326 IAC 2-7-5-(1)]

~~D.4.7~~ **1.6** Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.4.4 **1.3** shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

.....

Modification 7: Adding volume weighted language [326 IAC 8-1-2] when using noncompliant coatings.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

When applying noncompliant coating, compliance with the VOC content limit in condition D.1.1 and D1.3 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using the volume weighted average of coatings on a daily basis. This volume weighted average shall be determined by the following equation:

$$A = [\sum (c \times U) / \sum U]$$

Where:

A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied; and

U is the usage rate of the coating in gallons per day.

.....

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.9 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

(a) To document the compliance status with Conditions D.1.1, **D.1.3**, D.1.4 and ~~D.4.5~~ **1.7** the Permittee shall maintain records in accordance with (1) through ~~(2 6)~~ below. Records maintained for (1) through ~~(2 6)~~ shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and the VOC content limit established in Conditions D.1.1, **D.1.3**, D.1.4 and ~~D.4.5~~ **1.7**. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

~~(1) The cleanup solvent usage for each month; and~~

(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The volume weighted VOC content of the coatings used for each month;

(4) The cleanup solvent usage for each month; and

(5) The total VOC usage for each month.

~~(2 6) The total VOC, individual HAP, and total HAP usage for each month.~~

(b)

D.1.10 Reporting Requirements [326 IAC 2 7 5(3)] [326 IAC 2 7 19]

A quarterly report of the information to document the compliance status with Conditions ~~D.4.4~~ **1.3** and ~~D.4.5~~ **1.4** shall be submitted not later than thirty (30) days after the end of

the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Shot Blasting

- (a) ~~One (1) shot blast cabinet, identified as U015, constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.~~ **One (1) shot blast cabinet, identified as finger bar shot blast (previously identified as U015), constructed in 2011, emissions controlled by a cartridge dust collector (C015) and exhausting indoors, capacity: 38,400 pounds of steel shot per hour.**
- (b) ~~One (1) steel shot blast unit, identified as U011, constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.~~ **One (1) steel shot blast unit, identified as mast rail shot blast (previously identified as U011), constructed in 1999, exhausting to a cartridge dust collector (C011) and exiting inside the building, capacity: 115,500 pounds of steel shot per hour.**

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 PSD Minor Limit [326 IAC 2-2][326 IAC 6-3-2]

- ~~(a) The PM and PM10/PM2.5 emissions from the one (1) large parts shot blast cabinet, identified as U009, shall not exceed 5.28 and 4.54 pounds per hour (lb/hr), respectively.~~
- ~~(b) The PM and PM10/PM2.5 emissions from the one (1) steel shot blast unit, identified as U011, shall not exceed 4.62 and 3.97 pounds per hour (lb/hr), respectively.~~
- ~~(c) The PM and PM10/2.5 emissions from the one (1) steel shot blast unit, identified as U015, shall not exceed 0.23 and 0.23 pounds per hour (lb/hr), respectively.~~

~~Compliance with this condition, in conjunction with Conditions D.1.4, D.3.1 and D.3.2 and potential emissions of PM, PM10, and PM2.5 from other emission units, will limit the potential to emit of VOC, PM, PM10 and PM2.5 for the entire source to less than 250 tons per year each from the entire source and renders 326 IAC 2-2, PSD not applicable to the entire source.~~

- (a) The PM emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 4.62 lb/hr ,**
- (b) PM10/PM2.5 emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 3.97 lb/hr,**
- (c) The PM emissions from the one (1) steel shot blast unit, identified as finger bar shot blast , shall not exceed 0.23 lb/hr, and**
- (d) PM10/2.5 emissions from the one (1) steel shot blast unit, identified as finger bar shot blast, shall not exceed 0.23 lb/hr.**

Compliance with this limit and potential emissions of PM, PM10, and PM2.5 from other

emission units, will limit the potential to emit of PM, PM10 and PM2.5 for the entire source to less than 250 tons per year each from the entire source and renders 326 IAC 2-2, PSD not applicable to the entire source

The above condition will also satisfy the rule 326 IAC 6-3-2.

D.2.2 HAPs Minor Limit

- ~~(a) The emission of each individual metallic HAP from the one (1) large parts shot blast cabinet, identified as U009, shall not exceed 0.106 pounds per hour and the emissions of total metallic HAP shall not exceed 0.212 pounds per hour.~~
- ~~(b) The emission of each individual metallic HAP from the one (1) steel shot blast unit, identified as U011, shall not exceed 0.092 pounds per hour and the emissions of total metallic HAP shall not exceed 0.184 pounds per hour.~~
- ~~(c) The emission of each individual metallic HAP from the one (1) steel shot blast unit, identified as U015, shall not exceed 0.002 pounds per hour and the emissions of total metallic HAP shall not exceed 0.003 pounds per hour.~~
- (a) The emission of each individual HAP from the one (1) steel shot blast unit, identified as mast rail shot blast, shall not exceed 0.092 pounds per hour and the emissions of total metallic HAP shall not exceed 0.184 pounds per hour.**
- (b) The emission of each individual HAP from the one (1) steel shot blast unit, identified as finger bar shot blast, shall not exceed 0.002 pounds per hour and the emissions of total metallic HAP shall not exceed 0.003 pounds per hour.**

Compliance with ~~this condition~~ **these limits**, in conjunction with Conditions D.4-5 **1.4** and D.3-3 **3.2**, and potential HAPs emissions from other emission units, will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, and makes the source an area source for HAPs.

Compliance Determination Requirements

D.2.4 Particulate Control [326 IAC 2-7-6(6)]

- ~~(a) In order to comply with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C009) must be in operation at all times and control emissions from the one (1) large parts shot blast cabinet, identified as U009, at all times when U009 is in operation.~~
- ~~(b) In order to comply with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C011) must be in operation at all times and control emissions from the one (1) steel shot blast unit, identified as U011, at all times when U011 is in operation.~~
- ~~(c) In order to comply with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C015) must be in operation at all times and control emissions from the one (1) steel shot blast unit, identified as U015, at all times when U015 is in operation.~~
- (a) In order to ensure compliance with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C011) must be in operation at all times and control particulate emissions from the one (1) steel shot blast unit, identified as mast rail shot blast, at all times when mast rail shot blast is in operation.**
- (b) In order to ensure compliance with Conditions D.2.1, D.2.2 and D.2.3, the dust collector (C015) must be in operation at all times and control particulate emissions from the one (1) steel shot blast unit, identified as finger bar shot blast, at all times when finger bar shot blast is in operation.**

(d c)

Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

D.2.5 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

~~(a) The Permittee shall record the pressure drop across the dust collectors used in conjunction with the three (3) shot blast units, identified as U009, U011 and U015, at least once per day when the shot blast unit exhausting to that dust collector is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.~~

(a) **The Permittee shall record the pressure drop across the dust collectors used in conjunction with the two (2) shot blast units, identified as mast rail shot blast and finger bar shot blast, at least once per day when the shot blast unit exhausting to that baghouse is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.**

(b).....

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.7 Record Keeping Requirements [326 IAC 2 7 5(3)] [326 IAC 2 7 19]

(a) To document the compliance status with Condition D.2.5, the Permittee shall maintain records of once per day of the pressure drop during normal operation when the dust collector is in operation. The Permittee shall include in its log when a visible emission notation is not made and the reason for the lack of a visible emission notation, (e.g. the process did not operate that day).

.....

Modification 8: Move Other Activities (Welding) to a new Section D.4

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

(a) ~~Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. Emission units with a plant-wide total heat input capacity of 151.1 million British thermal units per hour, including one (1) natural gas-fired boiler, constructed in 2014, with a maximum capacity of 1.7 million British thermal units per hour and two (2) boilers, constructed in 1989, rated at 0.75 million British thermal units per hour, each. [326 IAC 6-2-4]~~

(b) ~~Other activities or categories with emissions equal to or less than the insignificant activity~~

thresholds: [326 IAC 6-3-2]

- ~~(1) One hundred sixty seven (167) Metal Inert Gas (MIG)(carbon steel) (E70S) Constructed in 1997, capacity of 36.7 pounds of weld wire per hour.~~
- ~~(2) Twenty Five (25) robotic MIG welders constructed in 1997 with a maximum capacity of 26.2 pounds of weld wire per hour.~~
- ~~(3) Two (2) Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997, capacity of 15.8 pounds of weld wire per hour.~~

A.3 Specifically Regulated Insignificant Activities [326 IAC 2 7 1(21)][326 IAC 2 7 4(c)] [326 IAC 2-7- 5(14)]

PLANT 1

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. Emission units with a plant-wide total heat input capacity of 177.95 million British thermal units per hour, including one (1) natural gas-fired boiler, constructed in 2014, with a maximum capacity of 1.7 million British thermal units per hour and two (2) boilers, constructed in 1989, rated at 0.75 million British thermal units per hour, each. [326 IAC 6-2-4]

.....
A.4 Other Insignificant Activities

PLANT 1

- (e) Other activities or categories with emissions equal to or less than the insignificant activity thresholds:
 - (1) 167 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
 - (2) 25 robotic MIG welders constructed in 1997.
 - (3) 2 Metal Inert Gas (MIG)(carbon steel) (E70S) constructed in 1997.
 - (4) 56 Metal Inert Gas (MIG)(carbon steel) (E70S) approved in 2016 for construction.
 - (5) 13 robotic MIG welders approved in 2016 for construction.

Plant 2

- (a)
- (b) One (1) robotic welder with a maximum capacity of 2 pounds of weld wire per hour.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the two (2) 0.75 million British thermal units per hour heat **input and one (1) 1.7 million British thermal units per hour heat input** boilers shall be limited to 0.6 pounds

per million British thermal units heat input, each. ~~The PM emissions from the 1.7 million British thermal units per hour boiler shall be limited to 0.6 pounds per million British thermal units heat input.~~

D.3.3 HAPs Minor Limit [40 CFR 63]

.....

Compliance with this ~~condition, in conjunction~~ **limit and** Conditions D.4-5 **1.4** and D.2.2, ~~and~~ **together with** potential HAPs emissions from other emission units will limit each individual HAP and total HAP emissions from the entire source to less than ten (10) tons per year and twenty five (25) tons per year, respectively, **and makes an area source under Section 126 of CAA** and renders ~~40 CFR 63, Subpart MMMM not applicable to the surface coating facilities identified as U001, U002, U004, U005, U013 and U014.~~

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.5 Record Keeping Requirements [326 IAC 2 7 5(3)] [326 IAC 2 7 19]

(a) To document the compliance status with Condition D.3.3 ~~2~~, the Permittee shall maintain monthly records the amount of weld wire or rod used.

.....

D.3.6 Reporting Requirements [326 IAC 2 7 5(3)] [326 IAC 2 7 19]

A quarterly report of the information to document the compliance status with Conditions D.3.3 ~~3.2~~ shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

.....

SECTION E.1 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description:

(c) One (1) natural gas-fired emergency generator, constructed in July 1, 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ, this is an affected emission unit source.]

[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

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

New Source Performance Standards (NSPS) Requirements [326 IAC 12-1]

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

(a) Pursuant to 40 CFR 60, Subpart JJJJ, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for the natural gas-fired emergency generator (EMG-1) as specified in Appendix A of 40 CFR Part 60, in accordance with the schedule in 40 CFR 60, Subpart JJJJ.

- (b) Pursuant to 40 CFR 60.4, 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 NSPS (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines [40 CFR Part 60, Subpart JJJJ] [326 IAC 12-1])
.....

- (1 **a**) 40 CFR 60.4230(a)(4)(iv)
- (2 **b**) CFR 60.4233(e)
- (3 **c**) CFR 60.4234
- (4 **d**) CFR 60.4236(c)₇
- (5 **e**) CFR 60.4237(b)
- (6 **f**) CFR 60.4243(b)(2)(i), (d)(1),(2)(i), (ii), and (iii), (e), (f)
- (7 **g**) CFR 60.4244
- (8 **h**) CFR 60.4245(a)(1), (2), and (3)
- (9 **i**) CFR 60.4246
- (10 **j**) CFR 60.4248
- Table 1
- Table 2
- Table 3

.....
SECTION E.2 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description:

- (c) One (1) natural gas-fired emergency generator, constructed in July 1, 2015, identified as EMG-1, with a maximum capacity of 0.43 million British thermal units per hour.

[Under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ, this is an affected emission unit source.]

[Under 40 CFR 63, Subpart ZZZZ, this is an affected source.]

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

.....
E.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAPs): National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [326 IAC 20-82-1] [40 CFR 63, Subpart ZZZZ]
.....

- (1 **a**) 40 CFR 63.6580
- (2 **b**) 40 CFR 63.6585
- (3 **c**) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
- (4 **d**) 40 CFR 63.6595(a)(7)
- (5 **e**) 40 CFR 63.6665
- (6 **f**) 40 CFR 63.6670
- (7 **g**) 40 CFR 63.6675

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

Part 70 Quarterly Report

Source Name: Toyota Industrial Equipment Manufacturing, Inc.
 Source Address: 5555 Inwood Drive, Columbus, Indiana 47201
 Part 70 Permit No.: T005-30305-00040
 Facilities: Six (6) Surface Coating Processes (U001, U002, U004, U005, U013 & U014)
 Parameter: HAP Input
 Limit: Single HAP shall not exceed 9.9 and total HAP shall not exceed 18 tons per twelve consecutive month period.

QUARTER : _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1	Single HAP		
	Total HAPs		
Month 2	Single HAP		
	Total HAPs		
Month 3	Single HAP		
	Total HAPs		

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 005-36810-00040 and a Part 70 Renewal T 005-36701-00040. The staff recommend to the Commissioner that this Part 70 Significant Source Modification Significant and Part 70 Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

The operation of this of a stationary Industrial Truck Manufacturing source shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T005-36701-00040.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Anh Nguyen at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-5334 or toll free at 1-800-451-6027 extension 3-5334.
- (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: Potential to Emit Summary

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
 Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
 Significant Source Modification No.: 005-36810-00040
 Permit Renewal No.: 005-36701-00040
 Reviewer: Anh Nguyen

Uncontrolled Potential to Emit (ton/yr)										
Emission Unit	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NOx	Total HAP	Single HAP	
Surface Coating Booth - U001	251	251	251	0.00	489	0.00	0.00	66.70	63.58	Glycol ether
Surface Coating Booth - U002	251	251	251	0.00	489	0.00	0.00	66.70	63.58	Glycol ether
Surface Coating Booth - U004	345	345	345	0.00	670	0.00	0.00	91.46	87.19	Glycol ether
Surface Coating Booth - U005	63	63	63	0.00	122	0.00	0.00	16.68	15.91	Glycol ether
Surface Coating Booth - U0013a	123	123	123	0.00	239	0.00	0.00	32.59	31.07	Glycol ether
Surface Coating Booth - U0013b	123	123	123	0.00	239	0.00	0.00	32.59	31.07	Glycol ether
Repair Paint Booth - U0014	57.31	57.31	57.31	0.00	111	0.00	0.00	15.21	14.50	Glycol ether
Cleanup Solvents	0.00	0.00	0.00	0.00	84	0.00	0.00	0.00	0.00	Glycol ether
Shot Blasting - U011	2,024	1,741	1,741	0.00	0.00	0.00	0.00	33.40	24.29	Manganese
Shot Blasting - U015	673	579	579	0.00	0.00	0.00	0.00	11.11	8.08	Manganese
CNG Engines	0.002	0.01	0.01	0.00	0.01	0.97	0.58	0.019	0.002	Acetaldehyde
Natural Gas Combustions	1.45	5.81	5.81	0.46	4.20	64.19	76.41	1.44	1.38	Hexane
Emergency Generator	0.00	0.01	0.01	0.00	0.01	0.16	0.18	0.00	0.00	Hexane
Phosphate Wash	5.75	5.75	5.75	0.00	0.42	0.00	0.00	0.00	0.00	
Powder Coatings	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Other Insignificant	0.00	0.00	0.00	0.00	31.77	0.00	0.00	negl.	0.00	
Weldings	188.42	188.42	188.42	0.00	0.00	0.00	0.00	11.60	11.52	Manganese
Laser Cutting Operation	2.80	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
Paved	3.62	0.72	0.18	0.00	0.00	0.00	0.00	0.00	0.00	
Unpaved	0.84	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Total PTE - Entire Source	4,114	3,737	3,736	1.00	2,479	66.00	78.00	380	306.89	

Appendix A: Potential to Emit Summary

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
 Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
 Significant Source Modification No.: 005-36810-00040
 Permit Renewal No.: 005-36701-00040
 Reviewer: Anh Nguyen

Limited Potential to Emit (ton/yr)										
Emission Unit	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NOx	Total HAP	Single HAP	
Surface Coating Booth - U001	25.14	25.14	25.14	0.00	All Units Less Than 243 TPY	0.00	0.00	All Units Less Than 18 TPY	All Units Less than 9.90 TPY	Glycol ether
Surface Coating Booth - U002	25.14	25.14	25.14	0.00		0.00	0.00			
Surface Coating Booth - U004	34.47	34.47	34.47	0.00		0.00	0.00			
Surface Coating Booth - U005	6.29	6.29	6.29	0.00		0.00	0.00			
Surface Coating Booth - U0013a	12.28	12.28	12.28	0.00		0.00	0.00			
Surface Coating Booth - U0013b	12.28	12.28	12.28	0.00		0.00	0.00			
Repair Paint Booth - U0014	5.73	5.73	5.73	0.00		0.00	0.00			
Cleanup Solvent Emissions	0.00	0.00	0.00	0.00		0.00	0.00			
Shot Blasting - U011	20.24	17.39	17.39	0.00	0.00	0.00	0.81	0.40	Manganese	
Shot Blasting - U015	1.00	1.00	1.00	0.00	0.00	0.00	0.01	0.01	Manganese	
CNG Engines	0.00	0.01	0.01	0.00	0.01	0.97	0.58	0.02	0.00	Acetaldehyde
Natural Gas Combustions	1.45	5.81	5.81	0.46	4.20	64.19	76.41	1.44	1.38	Hexane
Emergency Generator	0.00	0.01	0.01	0.00	0.01	0.16	0.18	0.00	0.00	Hexane
Phosphate Washes	5.75	5.75	5.75	0.00	0.42	0.00	0.00	0.00	0.00	
Powder Coatings	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Other Insignificant	0.00	0.00	0.00	0.00	0.70	0.00	0.00	negl.	0.00	
Weldings	52.00	52.00	52.00	0.00	0.00	0.00	0.00	3.20	3.18	Manganese
Laser Cutting Operation	2.80	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
Paved	3.62	0.72	0.18	0.00	0.00	0.00	0.00	0.00	0.00	
Unpaved	0.84	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Total PTE - Entire Source	209	207	206	0.46	5.34	65.31	77.17	23.48	9.90	Glycol ether

Controlled Potential to Emit (ton/yr)										
Emission Unit	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NOx	Total HAP		Mn
Surface Coating Booth - U001	25.14	25.14	25.14	0.00	All Units Less Than 243 TPY	0.00	0.00	All Units Less Than 18 TPY	All Units Less than 9.90 TPY	0.00
Surface Coating Booth - U002	25.14	25.14	25.14	0.00		0.00	0.00			0.00
Surface Coating Booth - U004	34.47	34.47	34.47	0.00		0.00	0.00			0.00
Surface Coating Booth - U005	6.29	6.29	6.29	0.00		0.00	0.00			0.00
Surface Coating Booth - U0013a	12.28	12.28	12.28	0.00		0.00	0.00			0.00
Surface Coating Booth - U0013b	12.28	12.28	12.28	0.00		0.00	0.00			0.00
Repair Paint Booth - U0014	5.73	5.73	5.73	0.00		0.00	0.00			0.00
Cleanup Solvent Emissions	0.00	0.00	0.00	0.00		0.00	0.00			0.00
Shot Blasting - U011	20.24	17.39	17.39	0.00	0.00	0.00	0.81	0.40	Manganese	
Shot Blasting - U015	1.00	1.00	1.00	0.00	0.00	0.00	0.01	0.01	Manganese	
CNG Engines	0.00	0.01	0.01	0.00	0.01	0.97	0.58	0.02	0.00	Acetaldehyde
Natural Gas Combustions	1.45	5.81	5.81	0.46	4.20	64.19	76.41	1.44	1.38	Hexane
Emergency Generator	0.00	0.01	0.01	0.00	0.01	0.16	0.18	0.00	0.00	Hexane
Phosphate Washes	5.75	5.75	5.75	0.00	0.42	0.00	0.00	0.00	0.00	
Powder Coatings	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
Other Insignificant	0.00	0.00	0.00	0.00	0.70	0.00	0.00	negl.	0.00	
Weldings	52.00	52.00	52.00	0.00	0.00	0.00	0.00	3.20	3.18	Manganese
Laser Cutting Operation	2.80	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
Paved	1.81	0.36	0.09	0.00	0.00	0.00	0.00	0.00	0.00	
Unpaved	0.42	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
Total PTE - Entire Source	207	207	206	0.46	5.34	65.31	77.17	23.48	9.90	Glycol ether

Appendix A: Potential to Emit Summary

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

**Appendix A: Emission Calculations
 Summary of Modified Process**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Uncontrolled Potential to Emit New Emission Units (ton/yr)									
New Emission Unit	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NOx	Total HAP	Single HAP
1 New Phosphate Washer	0.40	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00
69 New Weldings	33.15	33.15	33.15	0.00	0.00	0.00	0.00	2.04	2.03 Manganese
New NG combustions (26.85 MMBtu/hr)	0.22	0.88	0.88	0.07	0.63	9.68	11.53	0.22	0.21 Hexane
PTE from New Units (tpy)	33.77	34.43	34.43	0.07	0.63	9.68	11.53	2.26	2.03 Manganese

Uncontrolled Potential Emissions of Modified Emission Units (tons/year)												
Surface Coating Operation	Uncontrolled PTE PM/PM10/PM2.5 (TPY)			Uncontrolled PTE VOC (TPY)			Uncontrolled Single HAP (TPY)			Uncontrolled PTE HAP (TPY)		
Emission Unit	SSM 36810	SPM 36011 11/2015	difference	SSM 36810	SPM 36011 11/2015	Difference	SSM 36810 Glycol Ether	SPM 36011 11/2015 Glycol Ether	difference	SSM 36810	SPM 36011 11/2015	difference
U001	251.35	267.34	0.00	488.51	463.99	24.52	63.58	72.61	0.00	66.70	85.49	0.00
U002	251.35	267.34	0.00	488.51	463.99	24.52	63.58	72.61	0.00	66.70	85.49	0.00
U004	344.69	366.61	0.00	669.91	636.28	33.63	87.19	99.57	0.00	91.46	117.24	0.00
U005	62.88	66.88	0.00	122.21	116.07	6.14	15.91	18.16	0.00	16.68	21.39	0.00
U013a	122.81	130.52	0.00	238.69	453.41	0.00	31.07	35.48	0.00	32.59	41.77	0.00
U013b	122.81	130.52	0.00	238.69	453.41	0.00	31.07	35.48	0.00	32.59	41.77	0.00
U014	57.31	60.96	0.00	111.39	105.96	5.43	14.50	16.56	0.00	15.21	16.56	0.00
Cleanup Solvents	0.00	0.00	0.00	84.23	155.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Surface Coating	1,213.00	1,290	0.00	2,442	2,849	0.00	307	350	0.00	322	410	0.00
Phosphate Wash	Uncontrolled PTE PM/PM10/PM2.5 (TPY)			Uncontrolled PTE VOC (TPY)								
	SSM 36810	SPM 36011 11/2015	difference	SSM 36810	SPM 36011 11/2015	Difference						
Emission Totals (I011):	1.47	1.07	0.40	0.190	0.09	0.10						
Emission Totals (I012):	2.02	1.47	0.55	0.228	0.127	0.10						
Emission Totals (#7 Frame Washer):	1.86	2.15	0.00	0.000	0.253	0.00						
Emission Totals (I011 + I012 + #7 Frame Washer)	5.35	4.69	0.66	0.418	0.47	0.00						
Cleanup Solvent	Uncontrolled PTE PM/PM10/PM2.5 (TPY)			Uncontrolled PTE VOC (TPY)								
	SSM 36810	SPM 36011 11/2015	difference	SSM 36810	SPM 36011 11/2015	Difference						
YY1059 R Cure Flush Solvent	0.00	0.00	0.00	84.231	155.45	0.00						
*Solvent Recovery System	0.00	0.00	0.00	0.000	0.00	0.00						
Total Modified units (Surface Coatings + Phosphate wash+ Cleanup Solvent)	1,218	1,295	0.00	2,527	3,004	0.00	307	350	0.00	321.92	409.71	0.00
PTE from all Modified units (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Uncontrolled Potential Emissions of Modification (tons/year)									
	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NOx	Total HAP	Single HAP
PTE from New Units (tpy)	33.77	34.43	34.43	0.07	0.63	9.68	11.53	2.26	2.03
PTE from Modified Units (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PTE of Modification (tpy)	33.77	34.43	34.43	0.07	0.63	9.68	11.53	2.26	2.03

* The solvents being processed in the solvent recovery system came from the coating process where they are assumed to be 100% emitted and accounted for during surface coatings/cleaning operation. Therefore, the solvent recovery system will be processed as insignificant or negligible.

**Appendix A: Emission Calculations
Surface Coating Operation**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Surface Coating Potential to Emit Summary				
Emission Unit	Uncontrolled PTE PM/PM10/PM2.5 (TPY)	Uncontrolled PTE VOC (TPY)	Controlled PTE PM/PM10/PM2.5 (TPY)	Limited PTE VOC (TPY)
U001	251.35	488.51	25.14	Total VOC - All Units Less than 245 (TPY)
U002	251.35	488.51	25.14	
U004	344.69	669.91	34.47	
U005	62.88	122.21	6.29	
U013a	122.81	238.69	12.28	
U013b	122.81	238.69	12.28	
U014	57.31	111.39	5.73	
Cleanup Solvents	0.00	84.23	0.00	
Total	1,213	2,442	121.32	

Methodology

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

It is assumed that PM = PM10 = PM2.5

U001																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM10/PM2.5 PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.7%	0.0%	32.7%	0.0%	48.07%	30.70	1.000	3.63	3.63	111.53	2676.77	488.51	251.35	7.56	75%
Black Top Coat (KAA0121)	10.23	34.4%	0.0%	34.4%	0.0%	51.66%	30.70	1.000	3.52	3.52	108.04	2592.89	473.20	225.60	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.4%	0.0%	34.4%	0.0%	52.62%	30.70	1.000	3.62	3.62	110.99	2663.86	486.15	231.77	6.87	75%
KAEB019 Coral Orange	9.41	36.8%	0.0%	36.8%	0.0%	50.92%	30.70	1.000	3.46	3.46	106.31	2551.45	465.64	199.92	6.80	75%
65 AAK474 - Black	9.65	35.0%	0.0%	35.0%	0.0%	52.99%	30.70	1.000	3.38	3.38	103.69	2488.54	454.16	210.86	6.37	75%
KAA0045T	10.55	33.1%	0.0%	33.1%	0.0%	50.51%	30.70	1.000	3.49	3.49	107.21	2572.94	469.56	237.26	6.91	75%
												Uncontrolled / Worst Case	488.51	251.35		
												PM PTE based on 90%		25.14		

10.24

U002																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM10/PM2.5 PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.70%	0.00%	32.70%	0.00%	48.07%	30.70	1.000	3.63	3.63	111.53	2676.77	488.51	251.35	7.56	75%
Black Top Coat (KAA0121)	10.23	34.40%	0.00%	34.40%	0.00%	51.66%	30.70	1.000	3.52	3.52	108.04	2592.89	473.20	225.60	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.40%	0.00%	34.40%	0.00%	52.62%	30.70	1.000	3.62	3.62	110.99	2663.86	486.15	231.77	6.87	75%
KAEB019 Coral Orange	9.41	36.80%	0.00%	36.80%	0.00%	50.92%	30.70	1.000	3.46	3.46	106.31	2551.45	465.64	199.92	6.80	75%
65 AAK474 - Black	9.65	35.00%	0.00%	35.00%	0.00%	52.99%	30.70	1.000	3.38	3.38	103.69	2488.54	454.16	210.86	6.37	75%
KAA0045T	10.55	33.10%	0.00%	33.10%	0.00%	50.51%	30.70	1.000	3.49	3.49	107.21	2572.94	469.56	237.26	6.91	75%
												Uncontrolled / Worst Case	488.51	251.35		
												Limited PM Emissions - Controlled	90.00%	25.14		

Appendix A: Emission Calculations
Surface Coating Operation

Company Name: Toyota Industrial Equipment Manufacturing, Inc.

Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202

Significant Source Modification No.: 005-36810-00040

Permit Renewal No.: 005-36701-00040

Reviewer: Anh Nguyen

U004																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM ₁₀ /PM _{2.5} PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.7%	0.0%	32.7%	0.0%	48.07%	42.10	1.000	3.63	3.63	152.95	3670.75	669.91	344.69	7.56	75%
Black Top Coat (KAA0121)	10.23	34.4%	0.0%	34.4%	0.0%	51.66%	42.10	1.000	3.52	3.52	148.15	3555.72	648.92	309.37	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.4%	0.0%	34.4%	0.0%	52.62%	42.10	1.000	3.62	3.62	152.21	3653.04	666.68	317.84	6.87	75%
KAEB019 Coral Orange	9.41	36.8%	0.0%	36.8%	0.0%	50.92%	42.10	1.000	3.46	3.46	145.79	3498.89	638.55	274.16	6.80	75%
65 AAK474 - Black	9.65	35.0%	0.0%	35.0%	0.0%	52.99%	42.10	1.000	3.38	3.38	142.19	3412.63	622.80	289.16	6.37	75%
KAA0045T	10.55	33.1%	0.0%	33.1%	0.0%	50.51%	42.10	1.000	3.49	3.49	147.02	3528.37	643.93	325.37	6.91	75%
													Uncontrolled / Worst Case	669.91	344.69	
													Limited PM Emissions - Controlled	90.00%	34.47	
It is assumed that PM = PM10 = PM2.5		10.24														

U005																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM ₁₀ /PM _{2.5} PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.7%	0.0%	32.7%	0.0%	48.07%	7.68	1.000	3.63	3.63	27.90	669.63	122.21	62.88	7.56	75%
Black Top Coat (KAA0121)	10.23	34.4%	0.0%	34.4%	0.0%	51.66%	7.68	1.000	3.52	3.52	27.03	648.64	118.38	56.44	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.4%	0.0%	34.4%	0.0%	52.62%	7.68	1.000	3.62	3.62	27.77	666.40	121.62	57.98	6.87	75%
KAEB019 Coral Orange	9.41	36.8%	0.0%	36.8%	0.0%	50.92%	7.68	1.000	3.46	3.46	26.59	638.28	116.49	50.01	6.80	75%
65 AAK474 - Black	9.65	35.0%	0.0%	35.0%	0.0%	52.99%	7.68	1.000	3.38	3.38	25.94	622.54	113.61	52.75	6.37	75%
KAA0045T	10.55	33.1%	0.0%	33.1%	0.0%	50.51%	7.68	1.000	3.49	3.49	26.82	643.65	117.47	59.35	6.91	75%
													Uncontrolled / Worst Case	122.21	62.88	
													Limited PM Emissions - Controlled	90.00%	6.29	

U013a - Paint Booth 1																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM ₁₀ /PM _{2.5} PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.7%	0.0%	32.7%	0.0%	48.07%	15.00	1.000	3.63	3.63	54.49	1307.87	238.69	122.81	7.56	75%
Black Top Coat (KAA0121)	10.23	34.4%	0.0%	34.4%	0.0%	51.66%	15.00	1.000	3.52	3.52	52.79	1266.88	231.21	110.23	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.4%	0.0%	34.4%	0.0%	52.62%	15.00	1.000	3.62	3.62	54.23	1301.56	237.53	113.24	6.87	75%
KAEB019 Coral Orange	9.41	36.8%	0.0%	36.8%	0.0%	50.92%	15.00	1.000	3.46	3.46	51.94	1246.64	227.51	97.68	6.80	75%
65 AAK474 - Black	9.65	35.0%	0.0%	35.0%	0.0%	52.99%	15.00	1.000	3.38	3.38	50.66	1215.90	221.90	103.03	6.37	75%
KAA0045T	10.55	33.1%	0.0%	33.1%	0.0%	50.51%	15.00	1.000	3.49	3.49	52.38	1257.14	229.43	115.93	6.91	75%
													Uncontrolled / Worst Case	238.69	122.81	
													Limited PM Emissions - Controlled	90.00%	12.28	

**Appendix A: Emission Calculations
Surface Coating Operation**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

U013b - Paint Booth 1																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM ₁₀ /PM _{2.5} PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.7%	0.0%	32.7%	0.0%	48.07%	15.00	1.000	3.63	3.63	54.49	1307.87	238.69	122.81	7.56	75%
Black Top Coat (KAA0121)	10.23	34.4%	0.0%	34.4%	0.0%	51.66%	15.00	1.000	3.52	3.52	52.79	1266.88	231.21	110.23	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.4%	0.0%	34.4%	0.0%	52.62%	15.00	1.000	3.62	3.62	54.23	1301.56	237.53	113.24	6.87	75%
KAEB019 Coral Orange	9.41	36.8%	0.0%	36.8%	0.0%	50.92%	15.00	1.000	3.46	3.46	51.94	1246.64	227.51	97.68	6.80	75%
65 AAK474 - Black	9.65	35.0%	0.0%	35.0%	0.0%	52.99%	15.00	1.000	3.38	3.38	50.66	1215.90	221.90	103.03	6.37	75%
KAA0045T	10.55	33.1%	0.0%	33.1%	0.0%	50.51%	15.00	1.000	3.49	3.49	52.38	1257.14	229.43	115.93	6.91	75%
													Uncontrolled / Worst Case	238.69	122.81	
													Limited PM Emissions - Controlled	90.00%	12.28	

It is assumed that PM = PM10 = PM2.5

U014 - Repair Paint Booth																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Gallon of Material (gal/hr)	Flash Off	lb VOC per gal, less water	lb VOC per gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PM/PM ₁₀ /PM _{2.5} PTE (TPY)	lb VOC/gal solids	Transfer Efficiency
Buff Primer (AXDA204)	11.11	32.7%	0.0%	32.7%	0.0%	48.07%	7.00	1.000	3.63	3.63	25.43	610.34	111.39	57.31	7.56	75%
Black Top Coat (KAA0121)	10.23	34.4%	0.0%	34.4%	0.0%	51.66%	7.00	1.000	3.52	3.52	24.63	591.21	107.90	51.44	6.81	75%
KAA0045 Grey Polyurethane Enamel	10.51	34.4%	0.0%	34.4%	0.0%	52.62%	7.00	1.000	3.62	3.62	25.31	607.39	110.85	52.85	6.87	75%
KAEB019 Coral Orange	9.41	36.8%	0.0%	36.8%	0.0%	50.92%	7.00	1.000	3.46	3.46	24.24	581.76	106.17	45.58	6.80	75%
65 AAK474 - Black	9.65	35.0%	0.0%	35.0%	0.0%	52.99%	7.00	1.000	3.38	3.38	23.64	567.42	103.55	48.08	6.37	75%
KAA0045T	10.55	33.1%	0.0%	33.1%	0.0%	50.51%	7.00	1.000	3.49	3.49	24.44	586.66	107.07	54.10	6.91	75%
													Uncontrolled / Worst Case	111.39	57.31	
													Limited PM Emissions - Controlled	90.00%	5.73	

Appendix A: Emission Calculations

Surface Coating HAPs

Company Name: Toyota Industrial Equipment Manufacturing, Inc.

Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202

Significant Source Modification No.: 005-36810-00040

Permit Renewal No.: 005-36701-00040

Reviewer: Anh Nguyen

Potential to Emit HAP Summary			
Emission Unit	Glycol Ethers (TPY)	Xylene(TPY)	Total HAP (TPY)
U001	63.58	1.70	66.70
U002	63.58	1.70	66.70
U004	87.19	2.33	91.46
U005	15.91	0.43	16.68
U013a	31.07	0.83	32.59
U013b	31.07	0.83	32.59
U014	14.50	0.39	15.21
Cleanup Solvents	0.00	0.00	0.00
Total	306.89	8.22	321.92

Notes:

Polyurethane Enamels (KAA0121, KAA0054 and KAEA019) are mixed with CTC0075. The information in these calculations represents the "as applied" data.

Methodology:

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

U001									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	30.70	1.00	0.07%	0.06%	0.37%	1.07	0.92	5.67
Black Top Coat (KAA0121)	10.23	30.70	1.00	2.05%	0.07%	2.19%	28.20	0.96	30.13
AA0045 Grey Polyurethane Enam	10.51	30.70	1.00	1.76%	0.07%	1.87%	24.87	0.99	26.43
KAEB019 Coral Orange	9.41	30.70	1.00	0.69%	0.07%	0.82%	8.73	0.89	10.38
65 AAK474 - Black	9.65	30.70	1.00	4.90%	0.00%	5.14%	63.58	0.00	66.70
KAA0045T	10.55	30.70	1.00	2.11%	0.12%	2.30%	29.93	1.70	32.63
Worst Case Emissions							63.58	1.70	66.70

U002									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	30.70	1.00	0.07%	0.06%	0.37%	1.07	0.92	5.67
Black Top Coat (KAA0121)	10.23	30.70	1.00	2.05%	0.07%	2.19%	28.20	0.96	30.13
AA0045 Grey Polyurethane Enam	10.51	30.70	1.00	1.76%	0.07%	1.87%	24.87	0.99	26.43
KAEB019 Coral Orange	9.41	30.70	1.00	0.69%	0.07%	0.82%	8.73	0.89	10.38
65 AAK474 - Black	9.65	30.70	1.00	4.90%	0.00%	5.14%	63.58	0.00	66.70
KAA0045T	10.55	30.70	1.00	2.11%	0.12%	2.30%	29.93	1.70	32.63
Worst Case Emissions							63.58	1.70	66.70

U004									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	42.10	1.00	0.07%	0.06%	0.37%	1.47	1.26	7.78
Black Top Coat (KAA0121)	10.23	42.10	1.00	2.05%	0.07%	2.19%	38.67	1.32	41.31
AA0045 Grey Polyurethane Enam	10.51	42.10	1.00	1.76%	0.07%	1.87%	34.11	1.36	36.24
KAEB019 Coral Orange	9.41	42.10	1.00	0.69%	0.07%	0.82%	11.97	1.21	14.23
65 AAK474 - Black	9.65	42.10	1.00	4.90%	0.00%	5.14%	87.19	0.00	91.46
KAA0045T	10.55	42.10	1.00	2.11%	0.12%	2.30%	41.05	2.33	44.74
Worst Case Emissions							87.19	2.33	91.46

**Appendix A: Potential to Emit
Surface Coating HAPs**

**Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202**

Permit Renewal No.: 005-36701-00040

Reviewer: Anh Nguyen

U005									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	7.68	1.00	0.07%	0.06%	0.37%	0.27	0.23	1.42
Black Top Coat (KAA0121)	10.23	7.68	1.00	2.05%	0.07%	2.19%	7.05	0.24	7.54
AA0045 Grey Polyurethane Enam	10.51	7.68	1.00	1.76%	0.07%	1.87%	6.22	0.25	6.61
KAEB019 Coral Orange	9.41	7.68	1.00	0.69%	0.07%	0.82%	2.18	0.22	2.60
65 AAK474 - Black	9.65	7.68	1.00	4.90%	0.00%	5.14%	15.91	0.00	16.68
KAA0045T	10.55	7.68	1.00	2.11%	0.12%	2.30%	7.49	0.43	8.16
Worst Case Emissions							15.91	0.43	16.68

U013a									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	15.00	1.00	0.07%	0.06%	0.37%	0.52	0.45	2.77
Black Top Coat (KAA0121)	10.23	15.00	1.00	2.05%	0.07%	2.19%	13.78	0.47	14.72
AA0045 Grey Polyurethane Enam	10.51	15.00	1.00	1.76%	0.07%	1.87%	12.15	0.48	12.91
KAEB019 Coral Orange	9.41	15.00	1.00	0.69%	0.07%	0.82%	4.27	0.43	5.07
65 AAK474 - Black	9.65	15.00	1.00	4.90%	0.00%	5.14%	31.07	0.00	32.59
KAA0045T	10.55	15.00	1.00	2.11%	0.12%	2.30%	14.63	0.83	15.94
Worst Case Emissions							31.07	0.83	32.59

U013b									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	15.00	1.00	0.07%	0.06%	0.37%	0.52	0.45	2.77
Black Top Coat (KAA0121)	10.23	15.00	1.00	2.05%	0.07%	2.19%	13.78	0.47	14.72
AA0045 Grey Polyurethane Enam	10.51	15.00	1.00	1.76%	0.07%	1.87%	12.15	0.48	12.91
KAEB019 Coral Orange	9.41	15.00	1.00	0.69%	0.07%	0.82%	4.27	0.43	5.07
65 AAK474 - Black	9.65	15.00	1.00	4.90%	0.00%	5.14%	31.07	0.00	32.59
KAA0045T	10.55	15.00	1.00	2.11%	0.12%	2.30%	14.63	0.83	15.94
Worst Case Emissions							31.07	0.83	32.59

U014 Repair Spray Booth									
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Flash-off (fraction)	Weight % Glycol Ethers	Weight % Xylene	Weight % Total HAP	Glycol Ethers Emissions (tons/yr)	Xylene Emissions (tons/yr)	Total Emissions (tons/yr)
Buff Primer (AXDA204)	11.40	7.00	1.00	0.07%	0.06%	0.37%	0.24	0.21	1.29
Black Top Coat (KAA0121)	10.23	7.00	1.00	2.05%	0.07%	2.19%	6.43	0.22	6.87
AA0045 Grey Polyurethane Enam	10.51	7.00	1.00	1.76%	0.07%	1.87%	5.67	0.23	6.03
KAEB019 Coral Orange	9.41	7.00	1.00	0.69%	0.07%	0.82%	1.99	0.20	2.37
65 AAK474 - Black	9.65	7.00	1.00	4.90%	0.00%	5.14%	14.50	0.00	15.21
KAA0045T	10.55	7.00	1.00	2.11%	0.12%	2.30%	6.83	0.39	7.44
Worst Case Emissions							14.50	0.39	15.21

**Appendix A: Emission Calculations
Potential to Emit from Phosphate Wash**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Potential Usage

Emission Unit ID (Stack ID)	Emission Unit Description	Product Material Used	Annual Usage (gallons)	Prorated Potential Usage (gallons)	Tank Capacity (gallons)				Fraction of Total Tank Volume				Potential Tank Usage (gallons)				
					I011	I012	#7 Frame	New Phosphate Washer	I011	I012	#7 Frame	New Phosphate Washer	I011	I012	#7 Frame	New Phosphate Washer	Total
I011 I012 #7 Frame Washer New Phosphate Washer	Stage 1	Chemetal Texolite 1391SL	8,250	36,135	990	1285	1200	500	0.249	0.323	0.302	0.126	8999.7	11681.4	10908.7	4545.3	36,135
	Stage 3	Gardobond EPP 870 & 872	8,694	38,080	880	1285	1200	500	0.228	0.332	0.310	0.129	8670.2	12660.4	11822.9	4926.2	38,080
	Stage 5	Gardolene D6781	495	2,168	550	770	0	0	0.417	0.583	0.000	0.000	903.38	1264.7	0.0	0.0	2,168

Totals: 18,573 25,607 22,732 9,472 76,383

Assumed PM = PM₁₀ = PM_{2.5}

Emission Unit ID (Stack ID)	Emission Unit Description	Product Material Used	Potential Annual Usage (gallons)	Density (lb/gal)	VOC Content % (w/w)	% Solids (% w/w)	% Solids Emitted	VOC Potential To Emit - PTE		PM / PM ₁₀ / PM _{2.5} Potential To Emit (PTE)	
								(lb/yr)	(TPY)	(lb/yr)	(TPY)
I011a,b (S011a,b)	5-Stage Iron Phosphate Washer - Stage 1	Chemetal Texolite 1391SL	9,000	10.16	0.0	34.3	5.0	0.0	0.00	1,567.7	0.78
	5-Stage Iron Phosphate Washer - Stage 3	Gardobond EPP 870 & 872	8,670	8.63	0.0	36.2	5.0	0.0	0.00	1,354.3	0.68
	5-Stage Iron Phosphate Washer - Stage 5	Gardolene D6781	903	8.40	5.00	4.7	5.0	379.4	0.19	17.8	0.01
VOC Emission Totals (I011):								379	0.190	2,940	1.47

Emission Unit ID (Stack ID)	Emission Unit Description	Product Material Used	Potential Annual Usage (gallons)	Density (lb/gal)	VOC Content % (w/w)	% Solids (% w/w)	% Solids Emitted	VOC Potential To Emit - PTE		PM / PM ₁₀ / PM _{2.5} Potential To Emit (PTE)	
								(lb/yr)	(TPY)	(lb/yr)	(TPY)
I012	5-Stage Iron Phosphate Washer - Stage 1	Chemetal Texolite 1391SL	11,681	10.16	0.0	34.3	5.0	0.0	0.00	2,034.8	1.02
	5-Stage Iron Phosphate Washer - Stage 3	Gardobond EPP 870 & 872	12,660	8.63	0.0	36.2	5.0	0.0	0.00	1,977.6	0.99
	5-Stage Iron Phosphate Washer - Stage 5	Gardolene D6781	1,265	8.40	4.29	4.7	5.0	455.8	0.23	25.0	0.01
VOC Emission Totals (I012):								456	0.228	4,037	2.02

Emission Unit ID (Stack ID)	Emission Unit Description	Product Material Used	Potential Annual Usage (gallons)	Density (lb/gal)	VOC Content % (w/w)	% Solids (% w/w)	% Solids Emitted	VOC Potential To Emit - PTE		PM / PM ₁₀ / PM _{2.5} Potential To Emit (PTE)	
								(lb/yr)	(TPY)	(lb/yr)	(TPY)
#7 Frame Washer	4-Stage Iron Phosphate Washer - Stage 1	Chemetal Texolite 1391SL	10,909	10.16	0.0	34.3	5.0	0.0	0.00	1,900.2	0.95
	4-Stage Iron Phosphate Washer - Stage 3	Gardobond EPP 870 & 872	11,823	8.53	0.0	36.2	5.0	0.0	0.00	1,825.4	0.91
	NA	Gardolene D6781	0	8.40	NA	NA	NA	NA	NA	NA	NA
VOC Emission Totals (#7 Frame Washer):								0.00	0.00	3,725.60	1.86

Appendix A: Emission Calculations
Potential to Emit from New Phosphate Washers

Company Name: Toyota Industrial Equipment Manufacturing, Inc
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47201
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

2016

Emission Unit ID (Stack ID)	Emission Unit Description	Product Material Used	Potential Annual Usage (gallons)	Density (lb/gal)	VOC Content % (w/w)	% Solids (% w/w)	% Solids Emitted	VOC		PM/PM ₁₀ /PM _{2.5}	
								Potential To Emit - PTE		Potential To Emit (PTE)	
								(lb/yr)	(TPY)	(lb/yr)	(TPY)
New Phosphate Washer	4-Stage Iron Phosphate Washer - Stage 1	Chemetal Texolite 1391SL	4,545	10.16	0.0	34.3	5.0	0.0	0.00	791.8	0.40
	4-Stage Iron Phosphate Washer - Stage 3	Gardobond EPP 870 & 872	4,926	8.63	0.0	36.2	5.0	0.0	0.00	769.5	0.38
	NA	Gardolene D6781	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC Emission Totals (New Washer):								0.00	0.00	791.76	0.40

MSDS provided by source **PM = PM₁₀ = PM_{2.5}**

Emission Unit ID (Stack ID)	VOC		PM / PM ₁₀ /PM _{2.5}	
	Potential To Emit - PTE		Potential To Emit (PTE)	
	(lb/yr)	(TPY)	(lb/yr)	(TPY)
VOC Emission Totals (I011):				
	379	0.190	2,940	1.47
VOC Emission Totals (I012):				
	456	0.228	4,037	2.02
VOC Emission Totals (#7 Frame Washer):				
	0.00	0.000	3,726	1.86
VOC Emission Totals (New Washer):				
	0.00	0.00	791.76	0.40
VOC Emission Totals (I011 + I012 + #7 Frame Washer+New Washer):				
	835	0.42	11,495	5.75

- a. Quantities based on an operating schedule of 8,760 hours/year. Normal operating schedule is 8 hours/day, 5 days/week, 50 weeks/year (2,000 hours ye
- b. VOC and solids data obtained from Product Vendor (Nalco). There are no HAPs associated with these product
- c. Conservative estimate based on U.S. EPA HEW Study on particulate emissions from chemical metal treatment. (Particulate emissions from chemical metal treatment are calculated based on 5% of the solids contained in the product material used being dispersed to the atmosphere as particulate matter
- d. PTE for VOC assumes that 100% of the VOC contained in the product is emitted to the atmosphere and is calculated according to the following

$$\text{VOC (lb/hr)} = (\text{Potential annual usage, gallons/yr}) * (\text{Density, lb mat/l gal}) * (\% \text{ w/w of VOC, lb VOC/lb mat}) / 11$$

$$= (\text{gallons/yr}) * (\text{lb mat/l gal}) * (\text{lb VOC/lb mat}) / 100$$
- e. PTE for particulate matter (PM) assumes that all PM is PM10 and is calculated according to the following

$$\text{PM/PM}_{10} \text{ (lb/yr)} = (\text{Potential annual usage, gallons/yr}) * (\text{Density, lb mat/l gal}) * (\% \text{ Solids in Mat, lb solids/lb mat}) / 100 * (\% \text{ Solids Emitted}) / 1$$

$$= (\text{gallons/yr}) * (\text{lb mat/l gal}) * (\text{lb solids/lb mat}) / 100 * (5\% \text{ or } 5/100)$$

**Appendix A: Emission Calculations
Cleanup Solvent**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Cleanup Solvents																	
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Material Used (gal/unit)	Units per Hour	Flash Off fraction	lb VOC / gal, less water	lb VOC / gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PTE PM/PM ₁₀ /PM _{2.5} (TPY)	lb VOC/gal solids	Transfer Efficiency
YYt1059 R Cure Flush Solvent	6.7	55.00%	0.0%	55.0%	0.0%	0.00%	0.35	15.00	1.00	3.66	3.66	19.23	461.54	84.23	0.00	n/a	100%

Polyurethane Enamels (KAA0121, KAA0054 and KAEA019) are mixed with CTC0075. The information in these calculations represents the "as applied" data.
 assumed PM= PM10 =PM2.5

Methodology

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

Cleaning Solvents							
Material	Density (lb/gal)	Gal of Mat (gal/hr)	Maximum (unit/hour)	Flash-off (fraction)	Weight % HAP	HAP Emissions (tons/yr)	Total Emissions (tons/yr)
YYt1059 R Cure Flush Solvent	6.7	0.35	15.000	1.00	0.00%	0.00	0.00

Methodology:

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

**Appendix A: Emission Calculations
Particulate Emissions
Powder Coating**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Provided by the Applicant
Small Parts Powder Coat or SPPC

Emission Unit ID (Stack ID)	Emission Unit Description	Maximum Powder Usage (lb/hr)	^a Maximum Powder Usage (TPY)	Transfer Efficiency (%)	^b Maximum Material Overspray (lb/hr)	^b Primary Filter Efficiency (%)	^b Secondary Filter Efficiency (%)	^c PM / PM ₁₀ / PM _{2.5} Potential To Emit (PTE)	
								(lb/yr)	(TPY)
I011f (C011a,b)	Dry Powder Coat Line: Powder Coat Booth No.1 (Reclaim)	84.0	368	96	3.36	94.38	98.0	33.08	0.017
I011f (C011a,b)	Dry Powder Coat Line: Powder Coat Booth No.2 (Reclaim)	84.0	368	96	3.36	94.38	98.0	33.08	0.017
I011f (C011a,b)	Dry Powder Coat Line: Powder Coat Booth No.3 (Non-Reclaim)	84.0	368	96	3.36	94.38	98.0	33.08	0.017
^{d,e} PM/PM₁₀ Emission Totals for I011 (exhausting to climate controlled room equipped with own HVAC system):								33.1	0.017
Mast Rail Powder Coat or MRPC									
I012f (C012a,b)	Dry Powder Coat Line: Powder Coat Booth No.1 (Reclaim)	84.0	368	96	3.36	94.38	98.0	33.08	0.017
I012f (C012a,b)	Dry Powder Coat Line: Powder Coat Booth No.2 (Reclaim)	84.0	368	96	3.36	94.38	98.0	33.08	0.017
^{d,f} PM/PM₁₀ Emission Totals for I012 (exhausting to climate controlled room equipped with own HVAC system):								33.1	0.017
^d PM/PM₁₀ Emission Totals for I011 + I012:								66.2	0.033

^a Potential usage based on an operating schedule of 8,760 hours/year. Normal operating schedule is 8 hours/day, 5 days/week, 50 weeks/year (2,000 hours year).

^b Material Overspray (lb/hr) is based on a transfer efficiency of 96% and is calculated according to the following:

Overspray (lb/hr)
= (Maximum hourly usage, lb/hr) * (1-transfer efficiency, %) / 100
= Maximum amount (lb/hr) of material overspray

Primary and Secondary filters efficiencies consist of the following: Primary filters (94.38%) and Secondary filters (98%)

^c PTE for particulate matter (PM) assumes that all PM is PM₁₀ and is calculated according to the following:

PM/PM₁₀ (lb/yr)
= (Maximum material overspray, lb/hr) * (1 - Primary filter efficiency, %) * (1 - Secondary filter efficiency, %) * (8,760 hr/yr)
= (lb/hr) * (1 - primary filter efficiency/100) * (1 - secondary filter efficiency/100) * (8,760 hr/yr)
= lb PM₁₀/yr

^d PTE for particulate matter (PM) is negligible. Emissions calculated in the table above are based on powder coat booths integrated with a two-stage filtration system consisting of both primary and secondary filters and are located within a climate-controlled room equipped with its own HVAC system having no ambient exhaust. This applies to both insignificant units ~~I011 & I012~~ **SPPC & MRPC**

^e Insignificant **Small Parts Powder Coat or SPPC** Emission Unit ~~I011~~ is equipped with two (2) separate powder coat booths; however, TIEM can only spray in one (1) booth at any given time.

^f Insignificant **Mast Rail Powder Coat or MRPC** Emission Unit ~~I012~~ is equipped with two (2) separate powder coat booths; however, TIEM can only spray in one (1) booth at any given time.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100 each**

**Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen**

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
26.85	1020	230.6

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.22	0.88	0.88	0.07	11.53	0.63	9.68

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 comb
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirc

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000,000 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000

HAPS Calculations

Emission Factor in lb/MMc	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	2.4E-04	1.4E-04	8.6E-03	2.1E-01	3.9E-04	2.2E-01

Emission Factor in lb/MMc	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	5.8E-05	1.3E-04	1.6E-04	4.4E-05	2.4E-04	6.3E-04
						Total HAPs 2.2E-01
						Worst HAP 2.1E-01

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100 each**

**Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen**

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
151.10	1020	1297.7

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	1.23	4.93	4.93	0.39	64.88	3.57	54.50

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

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	
Potential Emission in tons/yr	1.4E-03	7.8E-04	4.9E-02	1.2E+00	2.2E-03	1.2E+00

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Potential Emission in tons/yr	3.2E-04	7.1E-04	9.1E-04	2.5E-04	1.4E-03	3.6E-03
	Total HAPs					1.2E+00
	Worst HAP					1.2E+00

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculation:
Potential to Emit from Natural Gas-Fired Internal Combustion Engines
(CNG)**

Company Name: **Toyota Industrial Equipment Manufacturing, Inc.**
Address City IN Zip: **5555 Inwood Drive, Columbus, IN 47203**
Significant Source Modification No. **005-36810-00040**
Permit Renewal No.: **005-36701-00040**
Reviewer: **Anh Nguyen**

Worst case fuel usage

Fuel consumption (g/kW h)*	258
Shaft Output (kW)*	43
Fuel consumption (g/h)	11094
Fuel consumption (lb/hr)	24.5
Energy content CNG	21,300 Btu/lb CNG
Heat input capacity (MMBtu/hr)	0.521

* From charts provided by the applicant

Four stroke **Lean** Burn Engines

Heat Input Capacity

MMBtu/yr

521.0

Lean Burn Engines

Emission Factor in lb/MMBtu	Pollutant					
	PM	PM10/2.5	SO2	NOx	VOC	CO
	7.71E-05	9.99E-03	5.88E-04	4.08	0.12	3.17E-01
Potential Emission in tons/yr	0.00002	0.003	0.0002	1.06	0.031	0.083

Four stroke **Rich** Burn Engines

Heat Input Capacity

MM Btu/yr

521.0

Rich Burn Engines

Emission Factor in lb/MMBtu	Pollutant					
	PM	PM10/2.5	SO2	NOx	VOC	CO
	9.50E-03	1.94E-02	5.88E-04	2.21	0.03	3.72E+00
Potential Emission in tons/yr	0.002	0.005	0.000	0.576	0.008	0.969

Worst Case Emissions

Worst case emissions for project	PM	PM10/2.5	SO2	NOx	VOC	CO
	0.002	0.005	0.0002	0.576	0.008	0.969

HAP	Emission Factor	Emission Factor	Potential to
	Four stroke Lean burn (lb/MMBtu)	Four stroke Rich burn (lb/MMBtu)	Emit (tons/yr)
1,1,2,2-Tetrachloroethane	4.00E-05	2.53E-05	1.04E-05
1,1,2-Trichloroethane	3.18E-05	1.53E-05	8.28E-06
1,1-Dichloroethane	2.36E-05	1.13E-05	6.15E-06
1,2-Dichloroethane	2.36E-05	1.13E-05	6.15E-06
1,2-Dichloropropane	2.69E-05	1.30E-05	7.01E-06
1,3-Butadiene	2.67E-04	6.63E-04	1.73E-04
1,3-Dichloropropene	2.64E-05	1.27E-05	6.88E-06
2,2,4-Trimethylpentane	2.50E-04	0.00E+00	6.51E-05
Acetaldehyde	8.36E-03	2.79E-03	2.18E-03
Acrolein	5.14E-03	2.63E-03	1.34E-03
Benzene	4.40E-04	1.58E-03	4.12E-04
Biphenyl	2.12E-04	0.00E+00	5.52E-05
Carbon Tetrachloride	3.67E-05	1.77E-05	9.56E-06
Chlorobenzene	3.04E-05	1.29E-05	7.92E-06
Chloroethane	1.87E-06	0.00E+00	4.87E-07
Chloroform	2.85E-05	1.37E-05	7.42E-06
Ethylbenzene	3.97E-05	2.48E-05	1.03E-05
Ethylene Dibromide	4.43E-05	2.13E-05	1.15E-05
Formaldehyde	5.28E-02	2.05E-02	1.38E-02
Methanol	2.50E-03	3.06E-03	7.97E-04
Methylene Chloride	2.00E-05	4.12E-05	1.07E-05
n-Hexane	1.11E-03	0.00E+00	2.89E-04
Naphthalene	7.44E-05	9.71E-05	2.53E-05
Phenol	2.40E-05	0.00E+00	6.25E-06
Styrene	2.36E-05	1.19E-05	6.15E-06
Toluene	4.08E-04	5.58E-04	1.45E-04
Vinyl Chloride	1.49E-05	7.18E-06	3.88E-06
Xylene	1.84E-04	1.95E-04	5.08E-05
Total HAPs:			0.019

Methodology

Emission Factors for PM/PM10/PM2.5, SO2, NOx, VOC, HAPs and CO are from AP 42 Tables 3.2-1, 3.2-2 and 3.2-3, revised July 2000
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Appendix A: Emissions Calculations
Insignificant Welding

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

New Welding

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10	Mn	Ni	Cr	PM/ PM ₁₀ /PM _{2.5}	Mn	Ni	Cr	
WELDING											
Metal Inert Gas (MIG)(carbon steel) (E70S)*	11	36.7	0.0052	0.000318	0.000001	0.000001	2.099	0.128	0.000	0.0004037	0.129
Metal Inert Gas (MIG)(carbon steel) (E70S)	13	26.2	0.0052	0.000318	0.000001	0.000001	1.771	0.108	0.000	0.0003406	0.109
Metal Inert Gas (MIG)(carbon steel) (E70S)	45	15.8	0.0052	0.000318	0.000001	0.000001	3.697	0.226	0.001	0.000711	0.228
EMISSION TOTALS FOR ALL WELDING EQUIPMENT											
Potential Emissions lbs/hr							7.57	0.46	0.00	0.00	0.47
Potential Emissions lbs/day							181.62	11.11	0.03	0.03	11.2
Potential Emissions tons/year							33.146	2.03	0.006	0.006	2.04

METHODOLOGY

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

*carbon steel (E70S) GMAW (SCC 3-09-052) Table 12.19-1 for PM and 12.19-2 for HAP

Appendix A: Emissions Calculations
Insignificant Welding

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Existing Welding

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM/PM10/PM2.5	Mn	Ni	Cr	PM/PM10/PM2.5	Mn	Ni	Cr	
WELDING											
Metal Inert Gas (MIG)(carbon steel) (E70S)*	167	36.7	0.0052	0.000318	0.000001	0.000001	31.870	1.949	0.006	0.0061289	1.961
Metal Inert Gas (MIG)(carbon steel) (E70S)	25	26.2	0.0052	0.000318	0.000001	0.000001	3.406	0.208	0.001	0.000655	0.210
Metal Inert Gas (MIG)(carbon steel) (E70S)	2	15.8	0.0052	0.000318	0.000001	0.000001	0.164	0.010	0.000	0.0000316	0.010
Robotic MIG Welder (carbon steel) (E70S)	1	2	0.0052	0.000318	0.000001	0.000001	0.010	0.001	0.000	0.000002	0.001
EMISSION TOTALS FOR ALL WELDING EQUIPMENT											
Potential Emissions lbs/hr							35.45	2.17	0.01	0.01	2.18
Potential Emissions lbs/day							850.82	52.03	0.16	0.16	52.4
Potential Emissions tons/year							155.275	9.50	0.030	0.030	9.56

METHODOLOGY

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

*carbon steel (E70S) GMAW (SCC 3-09-052) Table 12.19-1 for PM and 12.19-2 for HAP

Limited Potential to Emit

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/yr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/yr)				HAPS (lbs/yr)
			PM/PM10/PM2.5	Mn	Ni	Cr	PM/PM10/PM2.5	Mn	Ni	Cr	
WELDING											
Metal Inert Gas (MIG)(carbon steel) (E70S)	1	20,000,000	0.0052	0.000318	0.000001	0.000001	104000	6360	20.00	20.00	6400
EMISSION TOTALS											
Potential Emissions lbs/hr							104000	6360	20.00	20.00	6400
Potential Emissions tons/year							52.0	3.18	0.010	0.010	3.20

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100 each
Emergency Generator**

**Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen**

Heat Input Capacity MMBtu/hr	HHV $\frac{\text{mmBtu}}{\text{mmscf}}$	Potential Throughput MMCF/yr
0.43	1020	3.7

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.004	0.01	0.01	0.001	0.18	0.01	0.16

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

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Potential Emission in tons/yr	3.9E-06	2.2E-06	1.4E-04	3.3E-03	6.3E-06	3.5E-03

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
Potential Emission in tons/yr	9.2E-07	2.0E-06	2.6E-06	7.0E-07	3.9E-06	1.0E-05
	Total HAPs					0.003
	Worst HAP					0.003

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Potential to Emit
Laser Cutting**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.

Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202

Significant Source Modification No.: 005-36810-00040

Permit Renewal No.: 005-36701-00040

Reviewer: Anh Nguyen

Process	Max. Width of Cut (in)	Max thickness of Material able to be cut at max rate (in)	Max. cutting speed (in/hr)	Number of Machine	Density (lb/in3) of Steel	Emission Factor (lb/lb cut)	Potential Emission per Machine (lb/hr)	PM/PM10/PM2.5	
								Potential Emissions (lb/hr)	Potential Emissions (tpy)
Laser Cutting	0.0078	0.064	6262	6	0.284	0.12	0.11	0.64	2.80
							Controlled Efficiency	99%	99%
								0.01	0.03

assumed PM=PM10=PM2.5

Methodology

PTE (lb/hr) = Max. Width of Cut (in) * Max thickness of cut (in) * Max. cutting speed (in/hr) * Number of Machine * Density (lb/in3) * Emission Factor (lb/lb cut)

Lasers are all routed to Dust Collector

Emission Factor provided by: Source test data, Appendix B, 4-24-90, P/C report, A/N 18446 or South coat Air Quality Management District App .Number 497492, 512705,51270:

* Emission Factors are from an analysis of the composition of the steel. HAP content of the air emissions is assumed to be same composition of the steel

Appendix A: Emission Calculations
Particulate and HAP Emissions from Shot Blast Operations

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	lb PM / lb abrasive	lb PM10 / lb PM2.5
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

HAP Emission Factors for Steel Shot	
lb Manganese/lb PM	0.0120
lb Chromium/lb PM	0.0025
lb Nickel/lb PM	0.0020

PM / PM₁₀ / PM_{2.5} Emissions

Shot blaster	Potential Shot Usage (lb/hr)	PTE PM Emissions (TPY)	PTE PM10 / PM2.5 Emissions (TPY)	PSD Minor Limit PM Emissions (lbs/hr)	PSD Minor Limit PM10 / PM2.5 (lbs/hr)	PSD Minor Limit PM Emissions (TPY)	PSD Minor Limit PM10 / PM2.5 (TPY)
U009	432,000	2,343	4,989	5.28	4.54	23.43	49.89
U011	115,500	2,024	1,741	4.62	3.97	20.24	17.39
U015	38,400	673	579	0.23	0.23	1.00	1.00

2) HAP Emissions

Shot blaster	Potential to Emit (TPY)				
	PTE PM Emissions (ton/yr)	PTE Mn Emissions (ton/yr)	PTE Cr Emissions (ton/yr)	PTE Ni Emissions (ton/yr)	PTE Total HAP Each Unit (ton/yr)
U009	2,343	27.76	6.78	4.63	38.47
U011	2,024	24.29	5.06	4.05	33.40
U015	673	8.08	1.68	1.35	11.11
	Total Single HAP	32.37	6.74	5.40	
	Total HAP		44.51		

Shot blaster	HAP Minor limits			
	Single HAP (lb/hr)	Single HAP (TPY)	Total HAP (lb/hr)	Total HAP (TPY)
U009	0.406	0.46	0.242	0.929
U011	0.092	0.40	0.184	0.806
U015	0.002	0.01	0.0027	0.012
	Total	0.41		0.82

Removed unit

Methodology:

Emission Factors are from Stappa Alapco, Section 3 "Abrasive Blasting"
HAP emission factors assume same HAP composition in steel shot as in steel
Uncontrolled Emissions = shot usage * emission factor
PSD Limit PM / PM10 / PM2.5 = PTE * (1 - control efficiency)
PTE HAP = PM emissions * Emission Factor
PTE (TPY) = PTE (lb/hr) * 4.38

**Appendix A - Emission Calculations
Insignificant Activities other than Combustion**

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Gasoline Dispensing

Material	Usage 1997 (gallons/yr)	Truck Production 1997	Potential Annual Truck Production	Potential Gasoline Usage (gallons/yr)	Displacement Loss Emission Factor (lb VOC/gallon)	Spill Loss Emission Factor (lb VOC/gallon)	Displacement Loss (tons VOC/yr)	Spill Loss (tons VOC/yr)	Total VOC Emissions (tons/yr)
Gasoline	8500	14601	74460	43347	0.011	0.001	0.238	0.015	0.254

Storage Tanks

Material	Potential Breathing Losses (lbs/yr)	Potential Working Losses (lbs/yr)	Total VOC Tank Emissions (lbs/yr)	Total VOC Tank Emissions (ton/yr)
Gasoline	307	535	842	0.421
Various	15.0	34.0	49.0	0.025
Total:				0.446

Solvent Recovery System

The emissions from the solvent recovery system are presumed totally emitted during the surface coating operations. The source will not receive credit for the solvent recovery system.

Solvent Recovery System - Cleanup Solvent																
Material	Density (lb/gal)	Wt. % Volatile	Wt. % Water	Wt. % Organic	Vol % Water	Vol % Non-Vol (solids)	Material Used (gal/hr)	lb VOC / gal, less water	lb VOC / gal coating	PTE VOC (lb/hr)	PTE VOC (lb/day)	PTE VOC (TPY)	PTE PM/PM ₁₀ /PM _{2.5} (TPY)	lb VOC/gal solids	Transferred Efficiency	Enclosed Efficiency
YYt1059 R Cure Flush Solvent	6.66	100.00%	0.0%	100.0%	0.0%	0.00%	2.13	6.66	6.66	7.09	170.23	34.07	0.00	n/a	1.00	50%

The solvents being processed in the solvent recovery system came from the coating process where they are assumed to be 100% emitted and accounted for during surface coatings/cleaning operation. Therefore, the solvent recovery system will be processed as insignificant

PTE VOC Total :	0.00	tpy
------------------------	-------------	-----

METHODOLOGY

Tank report and MSDS provided by the source

Gasoline Dispensing

Emissions = gasoline usage (scaled to maximum production) * (displacement loss emission factor + spill loss emission factor)

Storage Tanks

Provided by the applicant. Based on capacity, throughput, product stored, and type of tank.

Solvent Recovery System

Batch is 17 gallons and takes 8-12 hrs to complete. 8 hrs used as conservative estimate of gallons used per hour

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

Paved Roads at Industrial Site

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

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day*	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded** (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance*** (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (automobile)	1500.0	2.0	3000.0	2.2	6600.0	1200	0.227	681.8	248863.6
Vehicle (semi-truck)	100.0	2.0	200.0	30.0	6000.0	2500	0.473	94.7	34564.4
Totals			3200.0		12600.0			776.5	283428.0

Average Vehicle Weight Per Trip = $\frac{3.9}{0.24}$ tons/trip miles/trip
 * Based upon number of current employees plus 50. Assumed 2 trips in and out (due to on-site cafeteria)
 ** Based upon average weight of car/light duty truck of 4021 lbs per New York Times May 5, 2004 plus 1 individual at 300 lbs
 *** Obtained from google earth measurements
 Unmitigated Emission Factor, $E_f = [k * (sL)^{0.91} * (W)^{1.02}]$ (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 =	3.9	3.9	3.9	tons = average vehicle weight (provided by source)
sL =	0.6	0.6	0.6	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, $E_{ext} = E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$
 where p = $\frac{125}{365}$ 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, $E_f =$	0.028	0.006	0.0014	lb/mile
Mitigated Emission Factor, $E_{ext} =$	0.026	0.005	0.0013	lb/mile
Dust Control Efficiency =	50%	50%	50%	(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)
Vehicle (automobile)	3.48	0.70	0.17	3.18	0.64	0.16	1.59	0.32	0.08
Vehicle (semi-truck)	0.48	0.10	0.02	0.44	0.09	0.02	0.22	0.04	0.01
Totals									
	3.96	0.79	0.19	3.62	0.72	0.18	1.81	0.36	0.09

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

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: Toyota Industrial Equipment Manufacturing, Inc.
Address City IN Zip: 5555 Inwood Drive, Columbus, IN 47202
Significant Source Modification No.: 005-36810-00040
Permit Renewal No.: 005-36701-00040
Reviewer: Anh Nguyen

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)
Vehicle (entering plant) (one-way trip)	1.0	1.0	1.0	1.0	1.0	10000	1.894	1.9	691.3
Vehicle (leaving plant) (one-way trip)	1.0	1.0	1.0	1.0	1.0	10000	1.894	1.9	691.3
Totals			2.0		2.0			3.8	1382.6

Average Vehicle Weight Per Trip =

1.0	tons/trip
-----	-----------

 Average Miles Per Trip =

1.89	miles/trip
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Unmitigated Emission Factor, Ef = $k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (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 Production)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	1.0	1.0	1.0	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 = $E \cdot [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, Eext = $E \cdot [(365 - P)/365]$

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 =	1.84	0.49	0.05	lb/mile
Mitigated Emission Factor, Eext =	1.21	0.32	0.03	lb/mile
Dust Control Efficiency =	50%	50%	50%	(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)
Vehicle (entering plant) (one-way trip)	0.64	0.17	0.02	0.42	0.11	0.01	0.21	0.06	0.01
Vehicle (leaving plant) (one-way trip)	0.64	0.17	0.02	0.42	0.11	0.01	0.21	0.06	0.01
Totals	1.27	0.34	0.03	0.84	0.22	0.02	0.42	0.11	0.01

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



Indiana Department of Environmental Management

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

Notice of Public Comment

August 3, 2016

Toyota Industrial Equipment Manufacturing, Inc.

005-36810-00040 & 005-36701-00040

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



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Carol S. Comer
Commissioner

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

August 3, 2016

A 30-day public comment period has been initiated for:

Permit Number: 005-36810-00040 & 005-36701-00040
Applicant Name: Toyota Industrial Equipment Manufacturing, Inc.
Location: Columbus, Bartholomew County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification.dot 2/17/2016



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Michael R. Pence
Governor

Carol S. Comer
Commissioner

August 3, 2016

Mr. Dixon Churchill
Toyota Industrial Equipment Manufacturing, Inc.
5555 Inwood Drive
Columbus, IN 47201

Re: Public Notice
Toyota Industrial Equipment Manufacturing, Inc.
Permit Level: Significant Source Modification &
Part 70 Operating Permit Renewal
Permit Number: 005-36810-00040 &
005-36701-00040

Dear Mr. Churchill:

Enclosed is a copy of your draft Significant Source Modification, Part 70 Operating Permit Renewal, 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 Republic in Columbus, Indiana publish the abbreviated version of the public notice no later than August 6, 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 Bartholomew County Public Library, 536 Fifth Street in Columbus, 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 Anh Nguyen, 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 3-5334 or dial (317) 233-5334.

Sincerely,

Greg Hotopp

Greg Hotopp
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016



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Michael R. Pence
Governor

Carol S. Comer
Commissioner

August 3, 2016

To: Bartholomew County Public Library

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Toyota Industrial Equipment Manufacturing, Inc.
Permit Number: 005-36810-00040 & 005-36701-00040

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

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

August 3, 2016

The Republic
333 Second Street
PO Box 3001
Columbus, IN 47201

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Toyota Industrial Equipment Manufacturing, Bartholomew 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 6, 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 Greg Hotopp at 800-451-6027 and ask for extension 4-3493 or dial 317-234-3493.

Sincerely,

Greg Hotopp

Greg Hotopp
Permit Branch
Office of Air Quality

Permit Level: Significant Source Modification & Part 70 Operating Permit Renewal
Permit Number: 005-36810-00040 & 005-36701-00040

Enclosure

PN Newspaper.dot 2/17/2016

Mail Code 61-53

IDEM Staff	GHOTOPP 8/4/2016 Toyota Industrial Equipment Manufacturing, Inc 005-36810/36701-00040 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		Dixon Churchill Toyota Industrial Equipment Manufacturing, Inc 5555 Inwood Dr Columbus IN 47201 (Source CAATS)										
2		Wendell Crouch EHS Toyota Industrial Equipment Manufacturing, Inc 5555 Inwood Dr Columbus IN 47201 (RO CAATS)										
3		Columbus City Council and Mayors Office 123 Washington St Columbus IN 47201 (Local Official)										
4		Mr. Elbert Held 734 Hutchins Columbus IN 47201 (Affected Party)										
5		Mr. Lcnfc 1039 Sycamore St Columbus IN 47201 (Affected Party)										
6		Bartholomew Co Public Library 536 Fifth St. Columbus IN 47201-6225 (Library)										
7		Bartholomew County Commissioners 440 Third Street Columbus IN 47202 (Local Official)										
8		Mr. Jean Terpstra 3210 Grove Pkwy Columbus IN 47203 (Affected Party)										
9		Terry Lowe 1079 Spring Meadow Court Franklin IN 46131 (Affected Party)										
10		Mr. Charles Mitch 3210 Grove Parkway Columbus IN 47203 (Affected Party)										
11		Mr. Roy Keowen 1800 Monore Ave Evansville IN 47714 (Affected Party)										
12		Ms. Carole Underhill 508 Martins Ln Evansville IN 47715 (Affected Party)										
13		Bartholomew County Health Department 440 3rd Street, Suite 303 Columbus IN 47201 (Health Department)										
14												
15												

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13			