



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

## NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

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

for ThyssenKrupp Crankshaft Company in Fountain County

Significant Permit Revision No.: 045-43165-00013

The Indiana Department of Environmental Management (IDEM) has received an application from ThyssenKrupp Crankshaft Company, located at 1291 East 8<sup>th</sup> Street, Veedersburg, Indiana 47987, for a significant revision of its FESOP issued on July 29, 2014. If approved by IDEM's Office of Air Quality (OAQ), this proposed revision would allow ThyssenKrupp Crankshaft Company to make certain changes at its existing source. ThyssenKrupp Crankshaft Company has applied to add a new shot blast machine.

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

A copy of the permit application and IDEM's preliminary findings have been sent to:

Veedersburg Public Library  
408 N Main Street  
Veedersburg, Indiana 47987

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

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

### How can you participate in this process?

The date that this notice is posted on IDEM's website (<https://www.in.gov/idem/5474.htm>) marks the beginning of a 30-day public comment period. If the 30<sup>th</sup> day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will

make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SPR 045-43165-00013 in all correspondence.

**Comments should be sent to:**

Olajumoke Kayode  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(800) 451-6027, ask for Olajumoke Kayode or (317) 234-5373  
Or dial directly: (317) 234-5373  
Fax: (317) 232-6749 attn: Olajumoke Kayode  
E-mail: okayode@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 Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.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 and will also be sent to the local library indicated above, and the IDEM public file room on the 12<sup>th</sup> floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

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



Iryn Calilung, Section Chief  
Permits Branch  
Office of Air Quality



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**Eric J. Holcomb**  
Governor

DRAFT

**Bruno L. Pigott**  
Commissioner

Mr. David Rand  
ThyssenKrupp Crankshaft Company  
1200 International Place  
Danville, Illinois 61834

Re: 045-43165-00013  
Significant Revision to  
F045-34093-00013

Dear Mr. Rand:

ThyssenKrupp Crankshaft Company was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F045-34093-00013, on July 29, 2014, for a stationary steel and iron forging operation located at 1291 East 8<sup>th</sup> Street, Veedersburg, Indiana 47987. On August 17, 2020, the Office of Air Quality (OAQ) received an application from the source requesting to remove one existing die shop shot clean machine; and add one new shot blast machine. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a Significant Permit Revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, the following emission unit is approved for construction at the source:

One (1) shot blast machine, identified as New SC2, approved in 2020 for construction, using S390 shot media, with a maximum throughput of 21,000 pounds of metal per hour, and maximum shot usage of 7.87 pounds per hour, using a dust collector, identified as DC-2 as control, and exhausting indoors.

The following construction conditions are applicable to the proposed project:

#### General Construction Conditions

1. The data and information supplied with the application shall be considered part of this permit revision approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

#### 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 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

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

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the Significant Permit Revision into the permit.

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire FESOP as revised.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. A copy of the application and permit is also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <http://www.in.gov/idem/> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.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 regarding this matter, please contact Olajumoke Kayode, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-5373 or (800) 451-6027, and ask for Olajumoke Kayode or (317) 234-5373.

Sincerely,

Iryn Calilung, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Revised permit and Technical Support Document.

cc: File - Fountain County  
Fountain County Health Department  
U.S. EPA, Region 5  
Compliance and Enforcement Branch



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Governor

Thomas W. Easterly  
Commissioner

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Federally Enforceable State Operating Permit Renewal  
OFFICE OF AIR QUALITY

ThyssenKrupp Crankshaft Company  
1291 East 8th Street  
Veedersburg, Indiana 47987

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

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

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

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

Operation Permit No.: F045-34093-00013	
Master Agency Interest ID.: 13688	
Issued by: <i>Originally signed by:</i> Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 29, 2014  Expiration Date: July 29, 2024

Significant Permit Revision No.: F045-43165-00013	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date:  Expiration Date: July 29, 2024

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## DRAFT SOURCE SUMMARY

### SECTION A

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

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

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The Permittee owns and operates a stationary steel and iron forging operation and does not meet the definition of an iron and steel foundry because it does not melt scrap, ingot, and/or other forms of iron and/or steel and pour the resulting molten metal into molds to produce final or near final shape products for introduction into commerce.

Source Address:	1291 East 8th Street, Veedersburg, Indiana 47987
General Source Phone Number:	(217) 444-5178
SIC Code:	3462 (Iron and Steel Forgings)
County Location:	Fountain
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) forging press, identified as FP1, constructed in 1995, with a maximum throughput of 24,000 pounds of metal per hour and using 172 pounds of graphite lubricant per hour, utilizing a wet scrubber for particulate control, and exhausting to stack S11.
- (b) One (1) shot blast machine, identified as SC1, constructed in 1995, using SAE S390 steel shot media, with a maximum throughput of 24,000 pounds of metal per hour, utilizing a baghouse for particulate control, identified as DC-1, and exhausting inside the building.
- (c) One (1) shot blast machine, identified as New SC2, approved in 2020 for construction, using S390 shot media, with a maximum throughput of 21,000 pounds of metal per hour, and maximum shot usage of 7.87 pounds per hour, using a dust collector, identified as DC-2 as control, and exhausting indoors.
- (d) Degreasing operations that do not exceed 145 gallons of solvent per 12-month period and not subject to 326 IAC 20-6, consisting of:
  - (1) One (1) closed top degreaser, identified as DG1, constructed in 2006, using 0.28 gallon of non-HAP VOC solvent per day, operating at a temperature of 140 °F, with no controls, exhausting inside the building.

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

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This stationary source also includes the following insignificant activities:

- (a) Welding operations consisting of:
  - (1) Three (3) metal inert gas welders, identified as DW1, MW1, and MW2, with a maximum hourly consumption of 0.01 pound of wire, each, with no controls, and exhausting inside the building.
  - (2) Three (3) stick welders, identified as DW2, MW3, and MW4, using 0.02 pounds of electrodes per hour, each, with no controls, and exhausting inside the building.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
  - (1) Three (3) natural gas fired heaters, identified as FE17, FE18, and F19, with a maximum heating capacity of 0.32 MMBtu/hr, each, with no controls.
  - (2) Two (2) natural gas fired make-up air units, identified as MAU1 and MAU2, with a maximum rated capacity of 7.2 MMBtu/hr each, with no controls.
  - (3) Four (4) natural gas fired AC/heating units, identified as AC1 through AC4, with the maximum rated capacities of units AC2 and AC4 each being 0.120 MMBtu/hr, and the maximum rated capacities of AC1 and AC3 each being 0.135 MMBtu/hr, with no controls.
  - (4) One (1) natural gas fired water heater, identified as WH1, with a maximum heating capacity of 0.251 MMBtu/hr, with no controls.
- (c) Machining operations consisting of the following units:
  - (1) Three (3) enclosed high speed machining units, identified as HSM1, HSM2, and HSM3, with a maximum capacity to process 750 lbs/hr, using 0.17 lb of coolant per hour, using a baghouse for control, and exhausting inside the building. The two HSM units are enclosed and particulate emissions are negligible.
- (d) Paved and unpaved roads and parking lots with public access.

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

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

## DRAFT GENERAL CONDITIONS

### SECTION B

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

---

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

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

---

- (a) This permit, F045-34093-00013, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

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

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

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

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

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

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

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

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

---

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

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- (1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
  - (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

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

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

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

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

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

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

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

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

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

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

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

The Permittee shall implement the PMPs.

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

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

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

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and

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(C) Corrective actions taken.

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

- (a) All terms and conditions of permits established prior to F045-34093-00013 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
- (2) revised, or

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(3) deleted.

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

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

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

### B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

### B.16 Permit Renewal [326 IAC 2-8-3(h)]

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

Request for renewal shall be submitted to:

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

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Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

### B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

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

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

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

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

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

### B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

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

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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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

and

United States Environmental Protection Agency, Region 5  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

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

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

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

- (b) Emission Trades [326 IAC 2-8-15(b)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(b).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(c)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.19 Source Modification Requirement [326 IAC 2-8-11.1]**

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

**B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

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

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- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

### B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

### B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

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### SECTION C

### SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM) and greenhouse gases (GHGs), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (4) The potential to emit greenhouse gases (GHGs) from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per twelve (12) consecutive month period.

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

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

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

##### C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

### C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

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All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

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

#### C.8 Performance Testing [326 IAC 3-6]

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted

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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]

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

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

#### C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

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

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

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- (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.

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

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

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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 2-8-4] [40 CFR 68]

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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 2-8-4] [326 IAC 2-8-5]

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);  
or
  - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

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### C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

#### C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:
  - (AA) All calibration and maintenance records.
  - (BB) All original strip chart recordings for continuous monitoring instrumentation.
  - (CC) Copies of all reports required by the FESOP.Records of required monitoring information include the following, where applicable:
  - (AA) The date, place, as defined in this permit, and time of sampling or measurements.
  - (BB) The dates analyses were performed.
  - (CC) The company or entity that performed the analyses.
  - (DD) The analytical techniques or methods used.
  - (EE) The results of such analyses.
  - (FF) The operating conditions as existing at the time of sampling or measurement.

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

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

#### C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit

## DRAFT

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

- (b) The address for report submittal is:

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

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

### Stratospheric Ozone Protection

#### C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

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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

#### Emissions Unit Description:

- (a) One (1) forging press, identified as FP1, constructed in 1995, with a maximum throughput of 24,000 pounds of metal per hour and using 172 pounds of graphite lubricant per hour, utilizing a wet scrubber for particulate control, and exhausting to stack S11.

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

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

##### D.1.1 FESOP Limits [326 IAC 2-8-4]

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the PM10 emissions after control from the forging press (FP1) shall not exceed 0.58 pounds per hour.

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

##### D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) emissions from the lubricant used in the forging press (FP1) shall not exceed 21.77 pound per hour when operating at a process weight rate of 172 pound of lubricant per hour and 24,000 pounds of metal per hour.

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pound per hour and  
P = process weight rate in ton per hour

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

A Preventive Maintenance Plan is required for these facilities and the corresponding 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

##### D.1.4 Particulate Control

In order to comply with Conditions D.1.1 and D.1.2, the wet scrubber for particulate control shall be in operation and control emissions from the forging press (FP1) at all times that the forging press (FP1) is in operation.

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

#### D.1.5 Visible Emissions Notations

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- (a) Visible emission notations of the forging press wet scrubber stack (S11) exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take 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.

#### D.1.6 Scrubber Parametric Monitoring

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- (a) The Permittee shall monitor and record the pressure drop across the wet scrubber exhausting to stack S11 used in conjunction with the forging press, identified as FP1, at least once per day when the forging press, identified as FP1, is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0 to 9.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C- Response to Excursions 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) The instruments 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 at least once every six (6) months.

#### D.1.7 Scrubber Failure Detection

---

- (a) For a scrubber 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 scrubber 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 line. 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).

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

#### D.1.8 Record Keeping Requirements

---

- (a) To document the compliance status with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the wet scrubber stack exhaust once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).
- (b) To document the compliance status with Condition D.1.6 the Permittee shall maintain records of the pressure drop of the wet scrubber once per day. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of reading (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

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### SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

**Emissions Unit Description:**

- (b) One (1) shot blast machine, identified as SC1, constructed in 1995, using SAE S390 steel shot media, with a maximum throughput of 24,000 pounds of metal per hour, utilizing a baghouse for particulate control, identified as DC-1, and exhausting inside the building.
- (c) One (1) shot blast machine, identified as New SC2, approved in 2020 for construction, using S390 shot media, with a maximum throughput of 21,000 pounds of metal per hour, and maximum shot usage of 7.87 pounds per hour, using a dust collector, identified as DC-2 as control, and exhausting indoors.

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

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

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

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable the Permittee shall comply with the following emissions limits after control:

Emission Unit	Control Device	PM Limit (lbs/hr)	PM10 Limit (lbs/hr)
Shot blast machine (SC1)	DC-1	21.67	17.10
New shot blast machine (New SC2)	DC-2	19.81	4.60

Compliance with these limits, combined with the potential to emit PM and PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM and PM10 to less than 250 ton per twelve (12) consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

**D.2.2 FESOP Limits [326 IAC 2-8-4]**

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the Permittee shall comply with the following emissions limits after control:

Emission Unit	Control Device	PM10 Limit (lbs/hr)
Shot blast machine (SC1)	DC-1	17.10
New shot blast machine (New SC2)	DC-2	4.60

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

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

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the following operations shall not exceed the pound per hour limit when operating at the specified process weight rate:

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Emission Unit	Process Weight Rate (tons/hr)	Allowable PM Emissions (lb/hr)
Shot Blast Machine SC1	12.00	21.67
New shot blast machine (New SC2)	10.50	19.81

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

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

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

A Preventive Maintenance Plan is required for these facilities and the corresponding 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

### D.2.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.2.1, D.2.2, and D.2.3, within one hundred and eighty (180) days after the issuance of FESOP Renewal No. F045-34092-00013, the Permittee shall perform PM, PM10, and PM2.5 testing of the Shot Blast Machine SC1 (controlled by a baghouse DC-1), utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

PM10 and PM2.5 includes filterable and condensable particulate matter.

- (b) In order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, not later than 180 days after the startup of the new shot blast machine (New SC2), the Permittee shall perform PM and PM10 testing of the new shot blast machine, New SC2 (controlled by dust collector (DC-2), utilizing methods approved by the commissioner. These tests shall be repeated at least once every 5 years from the date of the most recent valid compliance demonstration.

Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

PM10 and PM2.5 includes filterable and condensable particulate matter.

### D.2.6 Particulate Control

- (a) In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the baghouse for particulate control (DC-1) shall be in operation and control emissions from the shot blast machine (SC1) at all times that the shot blast machine (SC1) is in operation.
- (b) In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the dust collector for particulate control (DC-2) shall be in operation and control emissions from the new shot blast machine (New SC2) at all times that the new shot blast machine (New SC2) is in

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operation.

- (c) In the event that bag failure is observed in a multi-compartment baghouse, 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 2-8-4][326 IAC 2-8-5(a)(1)]

#### D.2.7 Parametric Monitoring

---

- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the shot blast machine (SC1) at least once per day when the shot blast machine (SC1) is in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 1.5 and 5.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test.
- (b) The Permittee shall record the pressure drop across the dust collector used in conjunction with the new shot blast machine (New SC2) at least once per day when the new shot blast machine (New SC2) is in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.5 and 7.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test.
- (c) 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.
- (d) The instruments used for determining the pressure shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

#### D.2.8 Broken or Failed Bag Detection

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process shall be shut down immediately until the failed units have 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 baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit have 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).

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

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

#### **D.2.9 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.2.7(a), the Permittee shall maintain daily records of the pressure drop across the baghouse used in conjunction with the shot blast machine (SC1) during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).
- (b) To document the compliance status with Condition D.2.7(b), the Permittee shall maintain daily records of the pressure drop across the dust collector used in conjunction with the new shot blast machine (New SC2) during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

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### SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

#### Emissions Unit Description:

- (d) Degreasing operations that do not exceed 145 gallons of solvent per 12-month period and not subject to 326 IAC 20-6, consisting of:
- (1) One (1) closed top degreaser, identified as DG1, constructed in 2006, using 0.28 gallon of non-HAP VOC solvent per day, operating at a temperature of 140 °F, with no controls, exhausting inside the building.

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

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

##### D.3.1 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

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

- (a) Ensure the following control equipment and operating requirements are met:
- (1) Equip the degreaser with a cover.
  - (2) Equip the degreaser with a device for draining cleaned parts.
  - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
  - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
  - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
  - (6) Store waste solvent only in closed containers.
  - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) Ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent used is insoluble in, and heavier than, water.
    - (C) A refrigerated chiller.
    - (D) Carbon adsorption.
    - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as

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a SIP revision.

- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray:
  - (A) must be a solid, fluid stream; and
  - (B) shall be applied at a pressure that does not cause excessive splashing.

### D.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

#### D.3.3 Record Keeping Requirements

To document the compliance status with Condition D.3.2, on and after January 1, 2015, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

- (a) The name and address of the solvent supplier.
- (b) The date of purchase.
- (c) The type of solvent purchased.
- (d) The total volume of the solvent purchased.
- (e) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)**  
**CERTIFICATION**

Source Name: ThyssenKrupp Crankshaft Company  
Source Address: 1291 East 8th Street, Veedersburg, Indiana 47987  
FESOP Permit No.: F045-34093-00013

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

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Date:

**DRAFT**  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**100 North Senate Avenue**  
**MC 61-53 IGCN 1003**  
**Indianapolis, Indiana 46204-2251**  
**Phone: (317) 233-0178**  
**Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)**  
**EMERGENCY OCCURRENCE REPORT**

Source Name: ThyssenKrupp Crankshaft Company  
Source Address: 1291 East 8th Street, Veedersburg, Indiana 47987  
FESOP Permit No.: F045-34093-00013

**This form consists of 2 pages**

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

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 Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , 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: \_\_\_\_\_

**DRAFT**  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)**  
**QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: ThyssenKrupp Crankshaft Company  
Source Address: 1291 East 8th Street, Veedersburg, Indiana 47987  
FESOP Permit No.: F045-34093-00013

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

# DRAFT

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

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

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

**Source Description and Location**

<b>Source Name:</b>	<b>ThyssenKrupp Crankshaft Company</b>
<b>Source Location:</b>	<b>1291, East 8<sup>th</sup> Street, Veedersburg, Indiana 47987</b>
<b>County:</b>	<b>Fountain</b>
<b>SIC Code:</b>	<b>3462 (Iron and Steel Forgings)</b>
<b>Operation Permit No.:</b>	<b>F 045-34093-00013</b>
<b>Operation Permit Issuance Date:</b>	<b>July 29, 2014</b>
<b>Significant Permit Revision No.:</b>	<b>045-43165-00013</b>
<b>Permit Reviewer:</b>	<b>Olajumoke Kayode</b>

**Existing Approvals**

The source was issued FESOP Renewal No. 045-34093-00013 on July 29, 2014. There have been no subsequent approvals issued.

**County Attainment Status**

The source is located in Fountain County.

<b>Pollutant</b>	<b>Designation</b>
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM <sub>2.5</sub> standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM <sub>2.5</sub> standard.
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO <sub>2</sub> standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

- (a) **Ozone Standards**  
Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) 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<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Fountain County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
Fountain County has been classified as attainment for PM<sub>2.5</sub>. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**  
Fountain County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for

Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B), and there is no applicable New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants 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.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

**Greenhouse Gas (GHG) Emissions**

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

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

**Source Status - Existing Source**

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Source-Wide Emissions Prior to Revision (ton/year)								
	PM <sup>1</sup>	PM <sub>10</sub> <sup>1</sup>	PM <sub>2.5</sub> <sup>1, 2</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>3</sup>	Total HAPs
<b>Total PTE of Entire Source Excluding Fugitive Emissions*</b>	244.30	98.33	64.27	0.04	6.92	0.93	5.81	0.12 (Hexane)	0.13
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

<sup>1</sup>Under the Part 70 Permit program (40 CFR 70), PM<sub>10</sub> and PM<sub>2.5</sub>, not particulate matter (PM), are each considered as a "regulated air pollutant."

<sup>2</sup>PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.

<sup>3</sup>Single highest source-wide HAP

\*Fugitive HAP emissions are always included in the source-wide emissions.

- (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) This existing source is not a major source of HAP, as defined in 40 CFR 63.2, because HAP 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.
- (c) These emissions are based on the TSD of FESOP Renewal No. 045-34093-00013, issued on July 29, 2014.

**Description of Proposed Revision**

The Office of Air Quality (OAQ) has reviewed an application, submitted by ThyssenKrupp Crankshaft Company on August 17, 2020, relating to the following:

Addition of one new shot blast machine:

One (1) shot blast machine, identified as New SC2, approved in 2020 for construction, using S390 shot media, with a maximum throughput of 21,000 pounds of metal per hour, and maximum shot usage of 7.87 pounds per hour, using a dust collector, identified as DC-2 as control, and exhausting indoors.

Removal of one existing die shop shot clean machine:

One (1) die shop shot clean machine, identified as SC2, constructed in 1995, using SAE S390 steel shot media, having a maximum throughput of 9,000 pounds of metal per hour, utilizing a baghouse for particulate control, identified as SCF-2, and exhausting inside the building.

**Enforcement Issues**

There are no pending enforcement actions related to this revision.

**Emission Calculations**

See Appendix A of this Technical Support Document for detailed emission calculations.

**Permit Level Determination – FESOP Significant Permit Revision**

Pursuant to 326 IAC 2-1.1-1(12), 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 2-8-11.1 (Permit Revisions). This table reflects the PTE before controls of the proposed revision. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

Process / Emission Unit	PTE Before Controls of the New Emission Units (ton/year)								
	PM	PM <sub>10</sub>	PM <sub>2.5</sub> <sup>1</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>2</sup>	Total HAPs
New shot blast machine (New SC2)	55.32	26.63	2.66	-	-	-	-	-	-

Process / Emission Unit	PTE Before Controls of the New Emission Units (ton/year)								
	PM	PM <sub>10</sub>	PM <sub>2.5</sub> <sup>1</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>2</sup>	Total HAPs
<b>Total PTE Before Controls of the New Emission Units:</b>	<b>55.32</b>	<b>26.63</b>	<b>2.66</b>	-	-	-	-	-	-

<sup>1</sup>PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.  
<sup>2</sup>Single highest HAP.

Appendix A of this TSD reflects the detailed potential emissions of the proposed revision.

Pursuant to 326 IAC 2-8-11.1(f)(1)(E), this FESOP is being revised through a FESOP Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves the construction of new emission units with potential to emit equal to or greater than twenty-five (25) tons per year of PM and PM<sub>10</sub>.

Pursuant to 326 IAC 2-8-11.1(f), this FESOP is being revised through a FESOP Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves adjusting FESOP and PSD minor limits.

**PTE of the Entire Source After Issuance of the FESOP Revision**

The table below summarizes the after issuance source-wide potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Source-Wide Emissions After Issuance (ton/year)								
	PM <sup>1</sup>	PM <sub>10</sub> <sup>1</sup>	PM <sub>2.5</sub> <sup>1,2</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Single HAP <sup>3</sup>	Total HAPs
<b>Total PTE of Entire Source Excluding Fugitives*</b>	227.23	98.33	70.94	0.04	6.92	0.93	5.81	0.12 (Hexane)	0.13
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

<sup>1</sup>Under the Part 70 Permit program (40 CFR 70), PM<sub>10</sub> and PM<sub>2.5</sub>, not particulate matter (PM), are each considered as a "regulated air pollutant."  
<sup>2</sup>PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.  
<sup>3</sup>Single highest source-wide HAP  
 \*Fugitive HAP emissions are always included in the source-wide emissions.

Appendix A of this TSD reflects the detailed potential to emit of the entire source after issuance.

The source opted to take PM and PM<sub>10</sub> limit(s) in order to render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to this source. See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) and 326 IAC 2-8 (FESOP), for more information regarding the limit(s).

- (a) This existing Title V minor stationary source will continue to be minor under 326 IAC 2-7 because the potential to emit regulated air pollutants and HAPs from the entire source will continue to be

less than or limited to less than the Title V major source threshold levels. Therefore, the source is subject to the provisions of 326 IAC 2-8 (FESOP) and is an area source under Section 112 of the Clean Air Act (CAA).

- (b) This existing minor PSD stationary source will continue to be minor under 326 IAC 2-2 because the potential to emit of all PSD regulated pollutants from the entire source will continue to be less than or limited to less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

#### **Federal Rule Applicability Determination**

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

##### **New Source Performance Standards (NSPS):**

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

##### **National Emission Standards for Hazardous Air Pollutants (NESHAP):**

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for for Nine Metal Fabrication and Finishing Source Categories 40 CFR 63, Subpart XXXXXX are not included in the permit for the new shot blast machine (New SC2), since although this is an area source which is primarily engaged in the type of operations in one of the nine source categories (Iron and Steel Forging), this source does not use materials which contain or have the potential to emit metal HAP, as defined by this NESHAP.
- (b) There are no National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included for this proposed revision.

##### **Compliance Assurance Monitoring (CAM):**

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

#### **State Rule Applicability - Entire Source**

Due to this revision, state rule applicability has been reviewed as follows:

##### **326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)**

PSD and Emission Offset applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP Revision section of this document.

##### **PSD Minor Source Limit(s)**

With the addition of the new shot blast machine, New SC2, the source-wide PM PTE is still greater than 250 tons/year; and the source-wide PM<sub>10</sub> PTE is now greater than 250 tons/year. The source wide PM<sub>2.5</sub> PTE is still less than 250 tons/year.

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

- (a) The PM emissions after control from new shot blast machine, New SC2, shall not exceed 19.81 pounds per hour.
- (b) The PM<sub>10</sub> emissions after control from the new shot blast machine, New SC2, shall not exceed 4.60 pounds per hour.

Compliance with these limits, combined with the potential to emit PM and PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM and PM10 to less than 250 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

The dust collector, identified as DC-2 shall be in operation at all times the new shot blast machine (New SC2) is in operation, in order to comply with these limits.

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

The new emission unit(s) will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

**326 IAC 2-6 (Emission Reporting)**

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70); it is not located in Lake, Porter, Clark, or Floyd County, and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.

**326 IAC 2-8-4 (FESOP)**

FESOP applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP Revision section of this document.

FESOP PM10 Limit(s)

With the addition of the new shot blast machine, New SC2, the source-wide PM10 PTE is still greater than 100 tons/year. The source wide PM2.5 PTE is still less than 100 tons/year.

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-7 (Part 70 Permits), not applicable, in addition to the existing limits, the Permittee shall comply with the following:

The PM<sub>10</sub> emissions from the new shot blast machine, New SC2, shall not exceed 4.60 pounds per hour.

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

The dust collector, identified as DC-2 shall be in operation at all times the new shot blast machine (New SC2) is in operation, in order to comply with these limits.

**326 IAC 5-1 (Opacity Limitations)**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**326 IAC 6-4 (Fugitive Dust Emissions Limitations)**

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

**326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)**

This source is not subject to the requirements of 326 IAC 6-5, because the source has potential fugitive particulate emissions of less than twenty-five (25) tons per year.

**326 IAC 6.5 (Particulate Matter Limitations Except Lake County)**

Pursuant to 326 IAC 6.5-1-1(a), this source (located in Fountain County) is not subject to the requirements of 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 (Particulate Matter Limitations for Lake County)**

Pursuant to 326 IAC 6.8-1-1(a), this source (located in Fountain County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

**326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)**

Pursuant to 326 IAC 6.8-10-1, this source (located in Fountain County) is not subject to the requirements of 326 IAC 6.8-10 because it is not located in Lake County.

**State Rule Applicability – Individual Facilities**

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

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

Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the new shot blast machine, New SC2, since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the new shot blast machine, New SC2, shall not exceed 19.81 pounds per hour when operating at a process weight rate of 10.50 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

The Dust collector, identified as DC-2 shall be in operation at all times the new shot blast machine, New SC2, is in operation, in order to comply with this limit.

**Compliance Determination and Monitoring Requirements**

(a) The Compliance Determination Requirements applicable to this revision are as follows:

Testing Requirements:

Summary of Testing Requirements					
Emission Unit	Control Device	Timeframe for Testing or Date of Initial Valid Demonstration)	Pollutant/Parameter	Frequency of Testing	Authority
new shot blast machine, New SC2	Dust collector (DC-2)	No later than 180 days after startup of the new shot blast machine (New SC2)	PM	every 5 years	326 IAC 2-2 326 IAC 6-3-2
			PM10	every 5 years	326 IAC 2-2 326 IAC 2-8-4

(b) The Compliance Monitoring Requirements applicable to this proposed revision are as follows:

Control Device	Type of Parametric Monitoring	Frequency	Range or Specification
Dust Collector (DC-2)	Pressure drop monitoring	Daily	Within normal range of 0.5 to 7.0 inches of water, unless a different upper or lower value is established in the most recent compliant stack test

These monitoring conditions are necessary because the Dust Collector for the PM, PM10 and PM2.5 must operate properly to assure compliance with 326 IAC 6-3 (Particulate Emissions Limitations for Manufacturing Processes), 326 IAC 2-8 (FESOP), and 326 IAC 2-2 (PSD).

<b>Proposed Changes</b>
-------------------------

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

- (1) IDEM, OAQ has added an emission unit to the permit.
- (2) IDEM, OAQ has added new Emission Limitations and Standards to the permit.
- (3) IDEM, OAQ has added new Compliance Dtermination, Compliance Determination and Recordkeeping Requirements to the permit.
- (4) IDEM, OAQ has removed an emission unit from the permit.

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

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

- ~~(e) One (1) die shop shot clean machine, identified as SC2, constructed in 1995, using SAE S390 steel shot media, having a maximum throughput of 9,000 pounds of metal per hour, utilizing a baghouse for particulate control, identified as SCF-2, and exhausting inside the building.~~
  - (c) **One (1) shot blast machine, identified as New SC2, approved in 2020 for construction, using S390 shot media, with a maximum throughput of 21,000 pounds of metal per hour, and maximum shot usage of 7.87 pounds per hour, using a dust collector, identified as DC-2 as control, and exhausting indoors.**
- .....

Emissions Unit Description:	
(b)	One (1) shot blast machine, identified as SC1, constructed in 1995, using SAE S390 steel shot media, with a maximum throughput of 24,000 pounds of metal per hour, utilizing a baghouse for particulate control, identified as DC-1, and exhausting inside the building.
(c)	<del>One (1) die shop shot clean machine, identified as SC2, constructed in 1995, using SAE S390 steel shot media, having a maximum throughput of 9,000 pounds of metal per hour, utilizing a baghouse for particulate control, identified as SCF-2, and exhausting inside the building.</del>
(c)	<b>One (1) shot blast machine, identified as New SC2, approved in 2020 for construction, using S390 shot media, with a maximum throughput of 21,000 pounds of metal per hour, and maximum shot usage of 7.87 pounds per hour, using a dust collector, identified as DC-2 as control, and exhausting indoors.</b>
(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)	

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

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

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, for PM, ~~the PM emissions after control from the shot blast machine (SC1) shall not exceed 21.67 pounds per hour~~ **the Permittee shall comply with the following emissions limits after control:**

Emission Unit	Control Device	PM Limit (lbs/hr)	PM10 Limit (lbs/hr)
Shot blast machine (SC1)	DC-1	21.67	17.10
<b>New shot blast machine (New SC2)</b>	<b>DC-2</b>	<b>19.81</b>	<b>4.60</b>

Compliance with ~~this~~ **these** limits, combined with the potential to emit PM **and PM10** from all other emission units at this source, shall limit the source-wide total potential to emit of PM **and PM10** to less than 250 ton per twelve (12) consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

**D.2.2 FESOP Limits [326 IAC 2-8-4]**

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the Permittee shall comply with the following **emissions limits after control:**

Emission Unit	Control Device	PM10 Limit (lbs/hr)
Shot blast machine (SC1)	DC-1	17.10
<b>New shot blast machine (New SC2)</b>	<b>DC-2</b>	<b>4.60</b>

- (a) ~~The PM10 emissions after control from the shot blast machine (SC1) shall not exceed 17.10 pounds per hour.~~
- (b) ~~The PM10 emissions after control from the die shop shot clean machine SC2) shall not exceed 4.6 pounds per hour.~~

Compliance with these limits, combined with the potential to emit PM10 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 to less than 100 tons per twelve (12) consecutive month period, and shall render 326 IAC 2-7 (Part 70 Permits)

not applicable.

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

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the following operations shall not exceed the pound per hour limit when operating at the specified process weight rate:

Emission Unit	Process Weight Rate (tons/hr)	Allowable PM Emissions (lb/hr)
Shot Blast Machine SC1	12.00	21.67
<del>Die Shop Shot Clean Machine SC2</del>	<del>4.50</del>	<del>11.23</del>
<b>New shot blast machine (New SC2)</b>	<b>10.50</b>	<b>19.81</b>

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

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

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

A Preventive Maintenance Plan is required for these facilities and the corresponding 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**

**D.2.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

**(a)** In order to demonstrate compliance with Conditions D.2.1, D.2.2, and D.2.3, within one hundred and eighty (180) days after the issuance of FESOP Renewal No. F045-34092-00013, the Permittee shall perform PM, PM10, and PM2.5 testing of the Shot Blast Machine SC1 (controlled by a baghouse DC-1) ~~and the Die Shop Shot Clean Machine SC2 (controlled by a baghouse SCF-2)~~, utilizing methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

PM10 and PM2.5 includes filterable and condensable particulate matter.

**(b)** **In order to demonstrate compliance with Conditions D.2.1, D.2.2 and D.2.3, not later than 180 days after after the startup of the new shot blast machine (New SC2), the Permittee shall perform PM and PM10 testing of the new shot blast machine, New SC2 (controlled by dust collector (DC-2), utilizing methods approved by the commissioner. These tests shall be repeated at least once every 5 years from the date of the most recent valid compliance demonstration.**

**Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.**

**PM10 and PM2.5 includes filterable and condensable particulate matter.**

**D.2.6 Particulate Control**

**(a)** In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the baghouse for particulate control (DC-1) shall be in operation and control emissions from the shot blast machine

(SC1) at all times that the shot blast machine (SC1) is in operation.

- (b) ~~In order to comply with Conditions D.2.2 and D.2.3, the baghouse for particulate control (SCF-2) shall be in operation and control emissions from the die shop shot clean machine (SC2) at all times that the die shop shot clean machine (SC2) is in operation.~~

**In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the dust collector for particulate control (DC-2) shall be in operation and control emissions from the new shot blast machine (New SC2) at all times that the new shot blast machine (New SC2) is in operation.**

- (c) In the event that bag failure is observed in a multi-compartment baghouse, 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 2-8-4][326 IAC 2-8-5(a)(1)]

#### D.2.7 Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the shot blast machine (SC1) at least once per day when the shot blast machine (SC1) is in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 1.5 and 5.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test.
- (b) ~~The Permittee shall record the pressure drop across the baghouse used in conjunction with the die shop shot clean machine (SC2) at least once per day when the die shop shot clean machine (SC2) is in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.2 and 6.0 inches of water unless a different upper bound or lower bound value for this range is determined during the latest stack test.~~

**The Permittee shall record the pressure drop across the dust collector used in conjunction with the new shot blast machine (New SC2) at least once per day when the new shot blast machine (New SC2) is in operation. When, for any one reading, the pressure drop across the baghouse is outside of the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.5 and 7.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test.**

- (c) 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.
- (d) The instruments 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.

.....

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

### D.2.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.7(a), the Permittee shall maintain daily records of the pressure drop across the baghouse used in conjunction with the shot blast machine (SC1) during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).
- (b) ~~To document the compliance status with Condition D.2.7(b), the Permittee shall maintain daily records of the pressure drop across the baghouse used in conjunction with the die shop shot clean machine (SC2) during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).~~  
**To document the compliance status with Condition D.2.7(b), the Permittee shall maintain daily records of the pressure drop across the dust collector used in conjunction with the new shot blast machine (New SC2) during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).**
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

### Additional Changes

IDEM, OAQ made additional changes to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

- (1) IDEM, OAQ has added a Master Agency ID to the permit.

Operation Permit No.: F045-34093-00013 <b>Master Agency Interest ID.: 13688</b>	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 10, 2014  Expiration Date: November 10, 2024

### **Conclusion and Recommendation**

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on August 17, 2020. Additional information was received on September 4, 2020.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 045-43165-00013. The staff recommends to the Commissioner that the FESOP Significant Permit Revision be approved.

<b>IDEM Contact</b>
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- (a) If you have any questions regarding this permit, please contact Olajumoke Kayode, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-5373 or (800) 451-6027, and ask for Olajumoke Kayode or (317) 234-5373.
- (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 Air Permits page on the Internet at: <http://www.in.gov/idem/airquality/2356.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emissions Calculations  
Summary**

Company Name: ThyssenKrupp Crankshaft Company  
Address City IN Zip: 1291 East 8th Street, Veedersburg, Indiana 47987  
Significant Permit Revision Number: F045-43165-00013  
Reviewer: Olajumoke Kayode

Emission Unit (ID)	Control (Stack ID)	Unlimited Potential to Emit (tons/year)									
		PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP	
Forging Press (FP1)	Wet scrubber (Stack S11)	45.20	45.20	45.20	0.00	0.00	0.00	0.00	0.00	0.00	
Shot blast machine (SC1)	Baghouse (indoors)	276.90	133.32	13.33	0.00	0.00	0.00	0.00	0.00	0.00	
Shot Blast Machine (New SC2)	Dust Collector (indoors)	242.29	116.66	11.67	0.00	0.00	0.00	0.00	0.00	0.00	
Degreaser (DG1)	No control	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	
Machining (HSM1, HSM2, HSM3)	No control	0.21	0.21	0.21	0.00	0.00	0.21	0.00	0.00	0.00	
Welding (DW1, DW2)	No control	2.13E-03	2.13E-03	2.13E-03	0.00	0.00	0.00	0.00	4.15E-03	2.07E-03	Chromium
Natural Gas Combustion	No control	0.13	0.53	0.53	0.04	6.92	0.38	5.81	0.13	0.12	Hexane
<b>Totals</b>		<b>564.74</b>	<b>295.92</b>	<b>70.94</b>	<b>0.04</b>	<b>6.92</b>	<b>0.93</b>	<b>5.81</b>	<b>0.13</b>	<b>0.12</b>	<b>Hexane</b>

See following pages for detailed emissions calculations.

Emission Unit (ID)	Control (Stack ID)	PSD Minor & FESOP lb/hr limits		
		PM <sup>(1)</sup>	PM10 <sup>(2)</sup>	PM2.5 <sup>(3)</sup>
Forging Press (FP1)	Wet scrubber (Stack S11)	-	0.58	-
Shot blast machine (SC1)	Baghouse (indoors)	21.67	17.10	-
Shot Blast Machine (New SC2)	Dust Collector (indoors)	19.81	4.60	-

(1) PSD Minor Limit, set equivalent to 326 IAC 6-3-2 limit

(2) FESOP Limits

(3) Unlimited PTE is less than 100 tons/yr for PM2.5; no limits necessary

Emission Unit (ID)	Control (Stack ID)	Limited Potential to Emit (tons/year)									
		PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP	
Forging Press (FP1)	Wet scrubber (Stack S11)	45.20	2.54	45.20	0.00	0.00	0.00	0.00	0.00	0.00	
Shot blast machine (SC1)	Baghouse (indoors)	94.91	74.90	13.33	0.00	0.00	0.00	0.00	0.00	0.00	
Shot Blast Machine (New SC2)	Dust collector (indoors)	86.77	20.15	11.67	0.00	0.00	0.00	0.00	0.00	0.00	
Degreaser (DG1)	No control	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	
Machining (HSM1, HSM2, HSM3)	No control	0.21	0.21	0.21	0.00	0.00	0.21	0.00	0.00	0.00	
Welding (DW1, DW2)	No control	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Chromium
Natural Gas Combustion	No control	0.13	0.53	0.53	0.04	6.92	0.38	5.81	0.13	0.12	Hexane
<b>Total</b>		<b>227.23</b>	<b>98.33</b>	<b>70.94</b>	<b>0.04</b>	<b>6.92</b>	<b>0.93</b>	<b>5.81</b>	<b>0.13</b>	<b>0.12</b>	<b>Hexane</b>

**Methodology**

Where relevant, Limited Potential to Emit (tons/year) = PSD Minor & FESOP lb/hr limits \* 8,760 hrs/year / 2,000 lb/ton  
Shaded cells indicate Limited PTE.



**Appendix A: Emission Calculations  
Forging Press**

Company Name: ThyssenKrupp Crankshaft Company  
Address City IN Zip: 1291 East 8th Street, Veedersburg, Indiana 47987  
Significant Permit Revision Number: F045-43165-00013  
Reviewer: Olajumoke Kayode

Material Used	Maximum Usage (gallons per month) *	Material Density (lb/gal) **	Maximum Usage (tons per year)	Maximum Usage (pounds per hour) *	% graphite by weight *	Particulate Potential Before Controls (ton/yr)	Particulate Potential Before Controls (lb/hr)	Control Efficiency * %	Particulate Potential After Controls (ton/yr)	Particulate Potential After Controls (lb/hr)
Graphite Die Lubricant - Condaforge 609	12,000	9.51	753.36	172	6.0%	45.20	10.32	97.0%	1.36	0.31

**Notes:**

\* Source reports Max usage is 12,000 gallons per month and 172 pounds per hour

\*\* MSDS shows 1.139 g/cm<sup>3</sup> density, which converts to lb/gal by 1 g/cm<sup>3</sup> = 8.3454 lb/gal**Methodology:**

Process: The cavities (or impressions) in the dies are lubricated with graphite. The graphite is suspended in a water carrier. The lubrication is sprayed on the dies. Any overspray is carried away by the exhaust through the wet scrubber. Calculations are assuming 100% of the graphite is carried away by the exhaust.

Assume all PM = PM<sub>10</sub> (PM includes filterable and condensable PM).

**326 IAC 6-3-2 Limits**

	Maximum Usage (pounds per hour)	Maximum Metal Throughput (pounds per hour)	Process Weight Rate (tons/hr)	Allowable PM Emissions (lb/hr)	Allowable PM Emissions Equivalent (ton/yr)
Forging Press	172	24,000	12.09	21.77	95.36

Process Weight Rate (tons/hr) = [Maximum Usage (pounds per hour) + Maximum Metal Throughput (pounds per hour)] / 2,000 pound/ton

$E = 4.10 P^{0.67}$

Where: E = Rate of emission in pounds per hour; and  
P = Process weight rate in tons per hour.

**Appendix A: Emission Calculations  
Particulate Emissions from Abrasive Blasting**

**Company Name:** ThyssenKrupp Crankshaft Company  
**Address City IN Zip:** 1291 East 8th Street, Veedersburg, Indiana 47987  
**Significant Permit Revision Number:** F045-43165-00013  
**Reviewer:** Olajumoke Kayode

**Emission Factors**

Emission Factor (lb PM / lb abrasive) *		Steel shot: sand ratio	Emission Factor (lb/1,000 lb abrasive) for sand blast media **			Emission Factor (lb/ton) steel shot media equivalent		
Sand Abrasive	Steel Shot Abrasive		PM	PM10	PM2.5	PM	PM10	PM2.5
0.041	0.004	0.10	27.00	13.00	1.30	5.27	2.54	0.25

**Notes:**

\* Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)  
 \*\* Emission factors are from AP 42, Section 13.2.6 - Fabricated Metal Products - Abrasive Blasting, sand blasting of mild steel panels (SCC 3-09-002-02). This source uses steel shot. Note that these emission factors are rated E (poor).

**Methodology:**

Steel shot: sand ratio = Steel Shot Abrasive Emission Factor (lb/lb) / Sand Abrasive Emission Factor (lb/lb)  
 Emission Factor (lb/ton) steel shot media equivalent = Emission Factor (lb/1,000 lb abrasive) for sand blast media / 1,000 \* Steel shot:sand ratio \* 2,000 lb/ton

**Potential Emissions Calculations**

Emission Unit	Maximum Throughput (lbs metal per hour)	PTE Before Controls (lb/hr)			PTE Before Controls (tons/yr)			Control Efficiency (%)	PTE After Controls (lb/hr)			PTE After Controls (tons/yr)		
		PM	PM10	PM2.5	PM	PM10	PM2.5		PM	PM10	PM2.5	PM	PM10	PM2.5
Shot Blast Machine (SC1)	24,000	63.22	30.44	3.04	276.90	133.32	13.33	99%	0.63	0.30	0.03	2.77	1.33	0.13
Shot Blast Machine (New SC2)	21,000	55.32	26.63	2.66	242.29	116.66	11.67	99%	0.55	0.27	0.03	2.42	1.17	0.12

**Methodology:**

PTE Before Controls (lb/hr) = Maximum Throughput (lbs metal per hour) \* Emission Factor (lb/ton) steel shot media equivalent / 2,000 lb/ton  
 PTE Before Controls (tons/yr) = PTE Before Controls (lb/hr) \* 8,760 hrs/yr / 2,000 lb/ton  
 PTE After Controls (lb/hr) = PTE Before Controls (lb/hr) \* (1-Control Efficiency (%))  
 PTE After Controls (tons/yr) = PTE Before Controls (tons/yr) \* (1-Control Efficiency (%))

**326 IAC 6-3-2 Limits**

	Maximum Metal Throughput (pounds per hour)	Process Weight Rate (tons/hr)	Allowable PM Emissions (lb/hr)
Shot Blast Machine (SC1)	24,000	12.00	21.67
Shot Blast Machine (New SC2)	21,000	10.50	19.81

$E = 4.10 P^{0.67}$       Where: E = Rate of emission in pounds per hour; and  
 P = Process weight rate in tons per hour.

**Appendix A: Emission Calculations**  
**VOC Emissions from Degreaser (DG1) and Machining (HSM1, HSM2, HSM3)**

Company Name: ThyssenKrupp Crankshaft Company  
 Address City IN Zip: 1291 East 8th Street, Veedersburg, Indiana 47987  
 Significant Permit Revision Number: F045-43165-00013  
 Reviewer: Olajumoke Kayode

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/hr)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC /gal solids	Transfer Efficiency
<b>Machining Coolant</b>																
TRIM Microsol 685	8.35	53.04%	24.94%	28.10%	2.08%	48.90%	0.021	1	2.10	2.35	0.05	1.16	0.21	0.21	4.80	40%
<b>Degreaser Solvent</b>																
Crystal Clean Premium 142*	6.58	100.00%	0.00%	100.00%	0.00%	0.00%	0.012	1	6.58	6.58	0.08	1.84	0.34	0.00	0.00	99%
<b>TOTALS =</b>																

NOTES: Source reports maximum coolant usage for high speed machining is 15 gal/month.  
 Source reports the maximum solvent usage by the degreaser is 8.5 gal/month.

PM Control Efficiency:	97.00%	<b>VOC (tpy)</b>	<b>PM (tpy)</b>
		<b>Uncontrolled</b>	<b>Controlled</b>
		0.12	0.01
		3.00	0.55

**METHODOLOGY**

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) \* Weight % Organics) / (1-Volume % water)  
 Pounds of VOC per Gallon Coating = (Density (lb/gal) \* Weight % Organics)  
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr)  
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (24 hr/day)  
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (8760 hr/yr) \* (1 ton/2000 lbs)  
 Particulate Potential Tons per Year = (units/hour) \* (gal/unit) \* (lbs/gal) \* (1- Weight % Volatiles) \* (1-Transfer efficiency) \*(8760 hrs/yr) \*(1 ton/2000 lbs)

**Appendix A: Emissions Calculations  
Welding Emissions**

**Company Name: ThyssenKrupp Crankshaft Company  
Address City IN Zip: 1291 East 8th Street, Veedersburg, Indiana 47987  
Significant Permit Revision Number: F045-43165-00013  
Reviewer: Olajumoke Kayode**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAP (lbs/hr)
			PM = PM <sub>10</sub>	Mn	Ni	Cr	PM = PM <sub>10</sub>	Mn	Ni	Cr	
WELDING											
Metal Inert Gas (MIG)(E308)	3	0.01	0.0054	0.00346	0.00184	0.00524	0.000	0.000	0.000	0.000	0.000
Stick (E308 electrode)	3	0.02	0.0054	0.00346	0.00184	0.00524	0.000	0.000	0.000	0.000	0.001
<b>EMISSION TOTALS</b>											
Potential Emissions lbs/hr =							0.00	0.00	0.00	0.00	0.00
Potential Emissions lbs/day =							0.01	0.01	0.00	0.01	0.02
Potential Emissions tons/year =							<b>2.13E-03</b>	1.36E-03	7.25E-04	2.07E-03	<b>4.15E-03</b>

\*Emission Factors are values for E308 from AP-42, Table 12.19-1, for SCC code 3-03-09-052-12.  
NOTE: All emissions from the welding operations are vented inside the building.

**Highest Single HAP (Chromium) = 2.07E-03**

**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.

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

**Company Name: ThyssenKrupp Crankshaft Company  
Address City IN Zip: 1291 East 8th Street, Veedersburg, Indiana 47987**

**Significant Permit Revision Number: F045-43165-00013**

**Reviewer: Olajumoke Kayode**

Description	Emission Unit IDs	Heat Input Capacity
Three (3) Heaters	FE17, FE18, F19	0.96
Two (2) Makeup Air Units	MAU1, MAU2	14.4
Two (2) AC/Heaters	AC1, AC3	0.27
Two (2) AC/Heaters	AC2, AC4	0.24
One (1) Water Heater	WH-1	0.25

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
16.1	1020	138.5

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.13	0.53	0.53	0.04	6.92	0.38	5.81

\*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	1.454E-04	8.307E-05	5.192E-03	1.246E-01	2.354E-04	1.303E-01

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
Potential Emission in tons/yr	3.461E-05	7.615E-05	9.692E-05	2.631E-05	1.454E-04	3.794E-04

Methodology is the same as above.

<b>Total HAPs</b>	<b>1.306E-01</b>
<b>Worst HAP</b>	<b>1.246E-01</b>

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

#### Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
Potential Emission in tons/yr	8,307	0.2	0.2
Summed Potential Emissions in tons/yr	8,307		
CO2e Total in tons/yr	8,356		

#### Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

September 29, 2020

David Rand  
ThyssenKrupp Crankshaft Company  
1200 International Place  
Danville, IL 61834

Re: Public Notice  
ThyssenKrupp Crankshaft Company  
Permit Level: FESOP – Significant Permit Revision  
(Minor PSD/EO)  
Permit Number: 045-43165-00013

Dear Mr. David Rand:

Enclosed is the Notice of 30-Day Period for Public Comment for your draft air permit.

Our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person. The Notice of 30-Day Period for Public Comment has also been sent to the OAQ Permits Branch Interested Parties List and, if applicable, your Consultant/Agent and/or Responsible Official/Authorized Individual.

The preliminary findings, including the draft permit, technical support document, emission calculations, and other supporting documents, **are available electronically at:**

**IDEM's online searchable database:** <http://www.in.gov/apps/idem/caats/> . Choose Search Option by **Permit Number**, then enter permit 43165

and

**IDEM's Virtual File Cabinet (VFC):** <http://www.IN.gov/idem>. Enter VFC in the search box, then search for permit documents using a variety of criteria, such as Program area, date range, permit #, Agency Interest Number, or Source ID.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: <https://www.in.gov/idem/5474.htm>

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Covington-Veedersburg Public Library, 408 North Main Street in Veedersburg, IN 47987. 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 draft permit 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 Olajumoke Kayode, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-5373 or dial (317) 234-5373.

Sincerely,

*Kathy Bourquein*

Kathy Bourquein  
Permits Branch  
Office of Air Quality

Enclosures

PN Applicant Cover Letter access via website 8/10/2020



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**Eric J. Holcomb**  
*Governor*

**Bruno L. Pigott**  
*Commissioner*

September 29, 2020

To: Covington-Veedersburg Public Library

From: Jenny Acker, Branch Chief  
Permits Branch  
Office of Air Quality

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

**Applicant Name: ThyssenKrupp Crankshaft Company**  
**Permit Number: 045-43165-00013**

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
- 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 updated 4/2019



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

## Notice of Public Comment

**September 29, 2020**  
**ThyssenKrupp Crankshaft Company**  
**045-43165-00013**

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 posted on IDEM's Public Notice website at <https://www.in.gov/idem/5474.htm>.

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 Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at [JBRUSH@IDEM.IN.GOV](mailto:JBRUSH@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 Letter 2/28/2020



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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**Eric J. Holcomb**  
Governor

**Bruno L. Pigott**  
Commissioner

### AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

September 29, 2020

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

**Permit Number:** 045-43165-00013  
**Applicant Name:** ThyssenKrupp Crankshaft Company  
**Location:** Veedersburg, Fountain 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](mailto:chammack@idem.IN.gov) or (317) 233-2414.

Affected States Notification 1/9/2017

# Mail Code 61-53

IDEM Staff	KBOURQUE 9/29/2020 THYSSENKRUPP CRANKSHAFT COMPANY 045-43165-00013 (draft)		<b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handling 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		David Rand ThyssenKrupp Crankshaft Company 1200 International Pl Danville IL 61834 (Source CAATS)									
2		Fountain-Warren County Health Department 113 W Sycamore St Attica IN 47918 (Health Department)									
3		Fountain County Commissioners 301 Fourth Street Covington IN 47932 (Local Official)									
4		Covington-Veedersburg Public Library 408 N Main St Veedersburg IN 47987 (Library)									
5		Sanctuary Homeowners 3511 Pintail Drive Lafayette IN 47905 (Affected Party)									
6		Veedersbrug Town Council 100 S. Main St. Veedersburg IN 47987 (Local Official)									
7		Ms. Jo Ann Spieth-Saylor The Corydon Democrat 301 N. Capitol Ave Corydon IN 47112 (Affected Party)									
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