INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
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(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Modification to a
Part 70 Operating Permit

for Japser Engine Exchange, Inc. in Dubois County

Significant Source Modification No.: 037-40381-00089
Significant Permit Modification No.: 037-40449-00089

The Indiana Department of Environmental Management (IDEM) has received an application from Japser Engine Exchange, Inc., located at 815 Wemsing Road and 911 W. Division Road, Jasper, Indiana 47547, for a significant modification of its Part 70 Operating Permit issued on July 14, 2014. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Japser Engine Exchange, Inc. to make certain changes at its existing source. Japser Engine Exchange, Inc. has applied for the construction of a cleaning furnace, abrasive blasters, and welding and woodworking operations.

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

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

Jasper Public Library
1116 Main Street
Jasper, IN 47548

and

IDEM Southwest Regional Office
114 South 7th Street
P.O. Box 128
Petersburg, IN 47567-0128

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

A copy of the preliminary findings is also available via IDEM's Virtual File Cabinet (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 published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

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

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SSM No.: 037-40381-00089 and SPM No.: 037-40449-00089 in all correspondence.

Comments should be sent to:

Brian Wright
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Brian Wright or (317) 234-6544
Or dial directly: (317) 234-6544
Fax: (317) 232-6749 attn: Brian Wright
E-mail: bwright@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, at the local library indicated above, at the IDEM Regional Office indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

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

Madhurima Das

Madhurima D. Moulik, Ph.D., Section Chief
Permits Branch
Office of Air Quality

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DRAFT

Mr. Benjamin Schwenk
Jasper Engine Exchange, Inc. - Branch #1
P.O. Box 650
Jasper, IN 47547

Re: 037-40449-00089
Significant Permit Modification

Dear Mr. Schwenk:

Jasper Engine Exchange, Inc. was issued Part 70 Operating Permit Renewal No. T037-33431-00089 on July 14, 2014 for a stationary engine, transmission, and differential parts remanufacturing plant located at 815 Wernsing Road and 911 W Division Road, Jasper, IN 47547. An application requesting changes to this permit was received on August 27, 2018. Pursuant to the provisions of 326 IAC 2-7-12, a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachment(s). Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

Attachment A: 40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition Internal Combustion Engines
Attachment B: 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines

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

Previously issued approvals for this source are also available via IDEM's Virtual File Cabinet (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.

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

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. A copy of the permit is also available via IDEM's Virtual File Cabinet (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.

DRAFT

If you have any questions regarding this matter, please contact Brian Wright, 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) 234-6544 or (800) 451-6027, and ask for Brian Wright or (317) 234-6544.

Sincerely,

Madhurima D. Moulik, Ph.D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Modified Permit and Technical Support Document
cc: File - Dubois County
Dubois County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch
IDEM Southwest Regional Office

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DRAFT

Part 70 Operating Permit (Renewal)
OFFICE OF AIR QUALITY

Jasper Engine Exchange, Inc.
815 Wernsing Road and 911 W. Division Road
Jasper, Indiana 47547

(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. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 037-33431-00089 Master Agency Interest ID.: **15692**	
Issued by: Original signed by: Nathan C. Bell, Section Chief Permits Branch, Office of Air Quality	Issuance Date: July 14, 2014 Expiration Date: July 14, 2019

Significant Source Modification No. 037-34417-00089, issued on October 21, 2014
Significant Permit Modification No. 037-34641-00089, issued on November 7, 2014

Significant Permit Modification No.: 037-40449-00089	
Issued by: Madhurima D. Moulik, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: July 14, 2019

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary engine, transmission, and differential parts remanufacturing plant.

Source Address:	815 Wemsing Road and 911 W. Division Road, Jasper, Indiana 47547
General Source Phone Number:	812-482-1041
SIC Code:	3714 (Motor Vehicle Parts and Accessories)
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 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 Source Definition

Jasper Engines & Transmissions, Inc operates two plants, the Jasper Engines Exchange, Inc. − Branch #1, located at 815 Wernsing Road, Jasper, Indiana 47546 and the Jasper Engines Exchange, Inc. − Branch #50, located at 733 W. Division Road, Jasper, Indiana 47546. Jasper Reality, Inc. also operates two plants in Jasper, Jasper Engines Exchange, Inc. − Branch #53, located at 911 W. Division Road, and Jasper Engines Exchange, Inc. − Branch #70, located at 1220 Power Drive. IDEM, OAQ has examined whether any of these four plants are part of the same major source. Since Branch #1 and Branch #53 meet all three criteria of the major source definition, IDEM, OAQ finds that they are part of the same major source. Since none of the other plants meets all three criteria of the major source definition with any other plant, IDEM, OAQ finds that none of the other plants are part of the same major source with any other plant.

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

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

(a) One (1) air atomization paint spray booth, constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001. (Branch #1)

(b) One (1) air atomization paint spray booth, constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002. (Branch #1)

(c) One (1) air atomization paint spray booth, constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003. (Branch #1)

(d) One (1) air atomization paint spray booth, constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004. (Branch #1)

(e) One (1) air atomization paint spray booth, constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005. (Branch #1)

(f) One (1) air atomization paint spray booth, constructed in 2003, identified as PTB007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PB007. (Branch #1)

(g) Miscellaneous non-aerosol cleaning and machining operations whose potential uncontrolled VOC emissions are greater than three (3) pounds per hour or fifteen (15) pounds per day. (Branch #1)

(h) Nine (9) natural gas-fired reciprocating internal combustion engines, constructed in 1999, identified as ACO009 through ACO010, CGN003 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (MMBTU/hr) and a rated output of 102 horsepower (HP). (Branch #1)

These generators are existing affected units under 40 CFR 63, Subpart ZZZZ.

(i) Two (2) engine test stands, identified as DYNO002 and DYNO004, constructed in 2013, each capable of testing #2 diesel fuel fired reciprocating internal combustion engines with a rated heat input of 10.5 MMBTU/hr and a rated output of 1500 HP. (Branch #1)

(j) One (1) engine test stand, identified as DYN033, capable of testing a natural gas fired reciprocating internal combustion engine with a rated heat input of 1.75 MMBTU/hr and a rated output of 250 HP. (Branch #1)

(k) One (1) engine test stand, identified as DYNO071, constructed in 2013, capable of testing a natural gas fired reciprocating internal combustion engine, using gasoline as back-up fuel, with a rated heat input of 3.5 MMBTU/hr and a rated output of 500 HP. (Branch #1)

(l) One (1) engine test stand, identified as DYN028, capable of testing a natural gas fired reciprocating internal combustion engine, using gasoline as back-up fuel, with a rated heat input of 10.5 MMBTU/hr and a rated output of 1500 HP. (Branch #1)

(m) One (1) engine test stand, identified as DYN056, constructed in 2006, capable of testing #2 diesel fuel fired reciprocating internal combustion engines with a rated heat input of 3.5 MMBTU/hr and a rated output of 500 HP. (Branch #1)

(n) One (1) engine test stand, identified as DYN057, constructed in 2006, capable of testing #2 diesel fuel fired reciprocating internal combustion engines with a rated heat input of 3.5 MMBTU/hr and a rated output of 500 HP. (Branch #1)

(o) Four (4) pyrolysis cleaning furnaces, constructed in 2008, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBTU/hr, each using a natural gas afterburner for control, each exhausting through stacks SE001, SE002, SE003, and SE004, respectively. (Branch #1)

(p) Two (2) pyrolysis cleaning furnaces, constructed in 2009, each unit using a natural gas afterburner for control:

(1) One (1) pyrolysis cleaning furnace, identified as OVE013, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, and exhausting through stack SE013.

(2) One (1) pyrolysis cleaning furnace, identified as OVE014, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBTU/hr, using a natural gas afterburner for control, and exhausting through stack SE014. (Branch #1)

(q) One (1) pyrolysis cleaning furnace, approved for in 2014 for construction, identified as OVE029 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, and exhausting through stack SE029. (Branch #1)

(r) One (1) pyrolysis cleaning furnace, constructed in 2012, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, exhausting through stack SE016. (Branch #1)

(s) Two (2) baghouses, identified as DUC081 and DUC083, constructed in 2012, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding, machining operations and sand blasting operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day and the following:

(1) One (1) soda blasting unit, constructed in 2008, identified as BLA056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC081, exhausting indoors only; and

(2) One (1) soda blasting unit, constructed in 2008, identified as BLA057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC083, exhausting indoors only. (Branch #1)

(t) One (1) soda blasting unit, identified as BLA037, constructed in 2003, equipped with a baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 12.5 lb/hr of blast media. (Branch #1)

(u) One (1) plastic bead abrasive blasting unit, identified as BLA045, constructed in 2006, equipped with cyclone (integral) and baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 116 pounds of abrasive per hour. (Branch #1)

(v) One (1) plastic bead blast unit, constructed in 2008, identified as BLA073, with a maximum capacity of 108 lb/hr of blast media, controlled by cyclone (integral) and baghouse DUC082, exhausting indoors only. (Branch #1)

(w) Four (4) pneumatic plastic bead blasting units, constructed in 2008, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using a cyclone (integral) and dust collector for control, identified as DUC083, DUC081, DUC082, and DUC063, respectively, and each exhausting indoors. (BLA080 at Branch #53, others at Branch #1)

(x) One (1) mechanically powered steel shot blasting unit, constructed in 2013, identified as BLA119, with a maximum capacity of 800 lbs/hr blast media with a maximum density of 487 lbs/ft3, controlled by air wash (integral) and baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(y) Four (4) mechanically powered steel shot blasting units, constructed in 2008, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using air wash (integral) and a baghouse for control, identified as DUC083, DUC081, DUC082, and DUC081, respectively, and each exhausting indoors. (Branch #1)

(z) Seven (7) plastic blaster units, constructed in 2009:

(1) One (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by a cyclone (integral) and baghouse DUC081, exhausting indoors; (Branch #1)

(2) Three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by cyclone (integral) and baghouse DUC081, exhausting indoors; (Branch #1)

(3) One (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) and baghouse DUC082, exhausting indoors; (Branch #1)

(4) One (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) and baghouse DUC081, exhausting indoors; and (Branch #1)

(5) One (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) and baghouse DUC093, exhausting indoors. (Branch #53)

(aa) Three (3) steel shot blaster units, constructed in 2009:

(1) Two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, and each unit controlled by **air wash (integral) and** baghouse DUC081, exhausting indoors; and

(2) One (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by **air wash (integral)** baghouse DUC081, exhausting indoors. (Branch #1)

(bb) One (1) steel shot blast unit, constructed in 2012, identified as BLA083, with a maximum capacity of 800 lb/hr of blast media, using air wash **(integral)** baghouse as control, identified as DUC091, and exhausting inside the building. (Branch #53)

(cc) One (1) aluminum oxide blast unit, constructed in 2012, identified as BLA020, with a maximum capacity of 315 lb/hr of blast media, using **a cyclone (integral) and** baghouse as control, identified as DUC029, and exhausting inside the building. (Branch #1)

(dd) One (1) sand blast unit, constructed in 2012, identified as BLA018, with a maximum capacity of 182 lb/hr of blast media, using a **cyclone (integral) and** baghouse as control, identified as DUC081, and exhausting inside the building. (Branch #1)

(ee) Two (2) mechanical blasters, each constructed in 2013, identified as BLA108 and BLA114, respectively, each with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by air wash (integral) and baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(ff) One (1) totally enclosed mechanical blaster, approved in 2014 for construction, identified as BLA115, with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by air wash (integral) and baghouse DUC083 and exhausting indoors. (Branch #1)

(gg) One (1) pyrolysis cleaning furnace, identified as OVE036, approved in 2018 for construction, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE036. (Branch #53)

(hh) One (1) pyrolysis cleaning furnace, identified as OVE042, approved in 2018 for construction, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE042. (Branch #53)

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

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

(a) One (1) air atomization paint spray booth, constructed in 2006, identified as PTB012, capable of painting a maximum of four (4) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB012. [326 IAC 6.5-1-2] (Branch #1)

(b) One (1) high volume low pressure (HVLP) spray application spray booth, approved in 2014 for construction, identified as PTB018, with a maximum production rate of 4 units per hour, using 0.04 gallons of coating per unit, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB018. [326 IAC 6.5-1-2] (Branch #53)

(c) Seven (7) test stands, identified as GTS001 through GTS005, GTS007, and GTS011, constructed in 1998, used to test remanufactured engines, with a maximum natural gas heat input of 0.088 MMBTU/hr each, consuming a maximum of 85.6 ft^3 of natural gas per hour, and used to set up and run a remanufactured engine for a maximum of twelve (12) minutes. [326 IAC 2-2] (Branch #1)

(d) One (1) aluminum oxide abrasive blasting unit, identified as BLA065, constructed in 2006, equipped with a cyclone (integral) and baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 315 pounds of abrasive per hour. [326 IAC 6.5-1-2] (Branch #1)

(e) Two (2) armex empire blasting units, identified as BLA063 and BLA066, constructed in 2006, each equipped with a baghouse for particulate control, identified as DUC081, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each. [326 IAC 6.5-1-2] (Branch #1)

(f) One (1) armex empire blasting unit, identified as BLA069, constructed in 2006, equipped with a baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour.
[326 IAC 6.5-1-2] (Branch #1)

(g) Two (2) steel shot peener units, identified as BLA019 and BLA068, constructed in 2006, each equipped with air wash (integral) and a baghouse for particulate control, identified as DUC082, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each. [326 IAC 6.5-1-2] (Branch #1)

(h) Four (4) sodium bicarbonate blast cabinets, identified as BLA031, BLA032, BLA034, and BLA042, constructed in 2006, controlled by a dust collector, identified as DUC083, capacity:12.5 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(i) One (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA008, constructed in 2006, controlled by a cyclone (integral) and dust collector, identified as DUC083, capacity: 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(j) One (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA041, constructed in 2006, controlled by a cyclone (integral) and dust collector, identified as DUC084, capacity: 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(k) One (1) soda blasting unit, constructed in 2009, identified as BLA064, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, and controlled by baghouse DUC084. [326IAC 6.5-1-2] (Branch #1)

(l) One (1) totally enclosed pneumatic blaster, constructed in 2013, identified as BLA113, with a maximum capacity of 66 lbs/hr, using soda/Armex blast material with a maximum density of 62 lbs/ft^3, controlled by baghouse DUC063 and exhausting to stack/vent DUC063. [326IAC 6.5-1-2] (Branch #53)

(m) One (1) totally enclosed pneumatic blaster, approved in 2014 for construction, identified as BLA116, with a maximum capacity of 108 lbs/hr, using plastic bead blast media with a maximum density of 59 lbs/ft^3, controlled by cyclone (integral) and baghouse DUC083 and exhausting indoors. [326IAC 6.5-1-2] (Branch #1)

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

(1) One (1) natural gas fired boiler, rated at 4.5 MMBTU/hr, constructed in 1993. [326 IAC 6.5-1-2] (Branch #1)

(2) Four (4) natural gas-fired, indirect-fired space heaters identified as HTR171, HTR172, HTR173, and HTR174, each constructed in 2005, each with a maximum capacity of 0.3 MMBTU/hr. [326 IAC 6.5-1-2] (Branch #53)

(o) Twenty-four (24) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042, T268-CLT0126, and SCT501 through SCT511 constructed after July 1, 1990.
[326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #1)

(p) Five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990. [326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #1)

(q) One (1) degreasing unit spray wash cabinet, approved in 2014 for construction, identified as CLT064, with a maximum usage of 234 pounds per year.
[326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #53)

(r) One (1) degreasing unit differential cleaning tank, approved in 2014 for construction, identified as CLT096, with a maximum usage of 330 gallons per year. [326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #53)

(s) One (1) degreasing unit AJA Lift, approved in 2014 for construction, identified as ADJ015, with a maximum usage of 110 gallons per year. [326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #53)

(t) One (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA007, constructed in 2000, controlled by a cyclone (integral) and dust collector, identified as DUC084, with a maximum capacity of 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(u) Two (2) abrasive blasters using coal slag (Black Beauty) media, identified as BLA009 and BLA011, respectively, constructed in 2000, controlled by a **cyclone (integral) and** dust collector, identified as DUC081, each with a maximum capacity of 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(v) Two (2) baghouses (ID Nos. DUC029 and DUC081), each with a gas flow rate of greater than 4,000 actual cubic feet per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day. [326 IAC 6.5-1-2] (Branch #1)

(w) Two (2) baghouses, each approved in 2014 for construction, identified as DUC094 and DUC096, respectively, each with a gas flow rate of less than or equal to 4,000 actual cubic feet per minute, for controlling buffing and grinding operations. [326 IAC 6.5-1-2] (Branch #53)

(x) One (1) sodium bicarbonate blast cabinet, identified as BLA033, constructed in 2006, controlled by a dust collector, identified as DUC082, with a maximum capacity of 12.5 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(y) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. (Branch #1)

(z) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, constructed in 2012, identified as UPS027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2] (Branch #1)

Under NSPS, Subpart IIII, this unit is considered to be an affected facility.

Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

(aa) An emission unit or activity whose potential uncontrolled VOC emissions are less than three (3) pounds per hour or fifteen (15) pounds per day: GP NR final wash operations. (Branch #1)

(bb) Four (4) plastic bead blast units, constructed in 2012, identified as BLA046, BLA061, BLA100, and BLA105, each with a maximum capacity of 108 lb/hr of blast media, using a cyclone (integral) and baghouse as control, identified as DUC082, DUC092, DUC081, and DUC083, respectively, and exhausting inside the building. [326 IAC 6.5-1-2] (BLA061 at Branch #53, others at Branch #1)

(cc) Four (4) armex blast units, constructed in 2012, identified as BLA094, BLA097, BLA098, and BLA099, each with a maximum capacity of 12.5 lb/hr of blast media, using a

baghouse as control, identified as DUC083, DUC083, DUC082, and DUC082, respectively, and exhausting inside the building. [326 IAC 6.5-1-2] (Branch #1)

(dd) Miscellaneous aerosol spray can surface coating, taking place as needed on the property, using no controls. (Branch #1)

(ee) Welding and Flame Cutting Operations:

(i) Two (2) metal inert gas (MIG) (carbon steel) welding stations, each approved in 2014 for construction, identified as WEL002 and WEL073, respectively, each with a maximum electrode consumption of 9 lbs/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(ii) One (1) tungsten inert gas (TIG) (carbon steel) welding station, approved in 2014 for construction, identified as WEL037, with a maximum electrode consumption of 0.3 lbs/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(iii) One (1) tungsten inert gas (TIG) (carbon steel) welding station, constructed in 2013, identified as WEL118, with a maximum electrode consumption of 0.3 lbs/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(iv) Once (1) stick welder station using #6013 and #6011 electrodes, approved in 2014 for construction, identified as WEL083, with a maximum electrode consumption of 20 lbs/hr, controlled by baghouse DUC095 and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(v) One (1) Tungsten Inert Gas (TIG)(carbon steel) welder, identified as WEl200, approved in 2018 for construction, with a maximum electrode consumption of 0.3 lbs/hr, exhausting indoors. (Branch #1)

(ff) One (1) propane-fired oven/kiln, constructed in 2013, identified as OVE009, with a maximum heat input rate of 0.2 MMBTU/hr, controlled by baghouse DUC063 and exhausting to stack/vent DUC063. [326 IAC 6.5-1-2] (Branch #53)

(gg) Three (3) propane-fired ovens/kilns, each constructed in 2013, identified as OVE018, OVE022, OVE031, respectively, each with a maximum heat input rate of 0.2 MMBTU/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(hh) One (1) propane-fired oven/kiln, approved in 2014 for construction, identified as OVE033, with a maximum heat input rate of 0.2 MMBTU/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(ii) One (1) steel shot abrasive blaster, identified as BLA152, approved in 2018 for construction, with a maximum capacity of 800 lb/hr of blast media, using air wash (integral) and baghouse DUC063 as control, and exhausting indoors. (Branch #53)

(jj) One (1) plastic bead abrasive blaster, identified as BLA154, approved in 2018 for construction, with a maximum capacity of 108 lb/hr of blast media, using cyclone (integral) and baghouse DUC081 as control, and exhausting indoors. (Branch #1)

(kk) Woodworking Operations controlled by dust collectors DUC036 and DUC056 (Branch #1):

(1) One (1) 12" table saw, identified as SAW048

(2) One (1) panel saw, identified as SAW049

(3) One (1) table saw, identified as SAW050

(4) One (1) 14" band saw, identified as SAW051

(5) One (1) 12" compound miter saw, identified as SAW052

(6) One (1) sliding miter saw, identified as SAW053

(7) One (1) horizontal edge sander, identified as SAN058

(8) One (1) router table, identified as CTL001

(9) Two (2) stationary jointers, identified as CTL002 and CTL003.

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

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T037-33431-00089, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

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

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

B.5 Severability [326 IAC 2-7-5(5)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

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

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

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

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

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and

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

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

(c) A "responsible official" is defined at 326 IAC 2-7-1(35).

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. 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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

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

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

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

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

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

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

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

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

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

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

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

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

(C) Corrective actions taken.

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

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

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

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

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

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

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

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

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

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

(a) All terms and conditions of permits established prior to T037-33431-00089 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

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

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

(1) That this permit contains a material mistake.

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

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

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

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

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

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

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

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

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

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

(a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:

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

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

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

(4) The Permittee notifies the:

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

and

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

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the

Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(37)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

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

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ or U.S. EPA is required.

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

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

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

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

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

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

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

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

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

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

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

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

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

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

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

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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

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

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of thirty percent (30%) 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.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.5 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

C.7 Performance Testing [326 IAC 3-6]

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

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

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

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

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

C.10 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

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

Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]

C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall 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.12 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.13 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

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

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

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

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

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

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

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

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(33) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

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

(AA) All calibration and maintenance records.
(BB) All original strip chart recordings for continuous monitoring instrumentation.
(CC) Copies of all reports required by the Part 70 permit.

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

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

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

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

C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) air atomization paint spray booth, constructed in 1965, identified as Engine Booth, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB001. (Branch #1)

(b) One (1) air atomization paint spray booth, constructed in 1978, identified as Stern Drive Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB002. (Branch #1)

(c) One (1) air atomization paint spray booth, constructed in 1994, identified as Radiator Booth, capable of painting a maximum of ten (10) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB003. (Branch #1)

(d) One (1) air atomization paint spray booth, constructed in 1970, identified as Diesel Engine Booth, capable of painting a maximum of three (3) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB004. (Branch #1)

(e) One (1) air atomization paint spray booth, constructed in 1965, identified as Transmission Booth, capable of painting a maximum of twenty (20) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB005. (Branch #1)

(f) One (1) air atomization paint spray booth, constructed in 2003, identified as PTB007, capable of painting a maximum of thirty (30) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PB007. (Branch #1)

Insignificant Activity:

(a) One (1) air atomization paint spray booth, constructed in 2006, identified as PTB012, capable of painting a maximum of four (4) units per hour, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB012. [326 IAC 6.5-1-2] (Branch #1)

(b) One (1) high volume low pressure (HVLP) spray application spray booth, approved in 2014 for construction, identified as PTB018, with a maximum production rate of 4 units per hour, using 0.04 gallons of coating per unit, using dry filters for overspray control, and exhausting through one (1) stack, identified as PTB018. [326 IAC 6.5-1-2] (Branch #53)

(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 2-7-5(1)]

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

Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere of VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, for forced warm air dried coatings, as delivered to the applicator at the Radiator Booth and Booth PTB012.

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

Pursuant to 326 IAC 8-2-9(1)(E), the Permittee shall comply with the following for Radiator Booth and Booth PTB012:

(a) Work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the

following:

(1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.

(2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.

(3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.

(4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.

(5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.1.3 PSD Minor Limitation Volatile Organic Compounds (VOC) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the total VOC input to the paint booths, identified as Engine, Stern Drive, Radiator, Diesel Engine, Transmission, PTB007, PTB012, and PTB018, shall not exceed 60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limit and the limits contained in Condition D.2.1, combined with potential to emit the VOC from all other emission units at this source, shall limit the source-wide VOC emissions to less than 250 tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.1.4 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(h) (Particulate emission limitations), the Permittee shall comply with the following for the paint booths (Engine, Radiator, Diesel Engine, PTB007, and PTB012):

Surface coating processes shall be controlled by a dry particulate filter, waterwash, or an equivalent control device and the source shall operate the control device in accordance with manufacturer's specifications.

D.1.5 NESHAP Minor Limit [40 CFR Part 63, Subpart A][40 CFR Part 63, Subpart MMMM] [326 IAC 20-1] [326 IAC 20-80]

The input of total combination of HAPs and each single HAP to the surface coating processes shall be less than 12.33 and 1 tons per twelve (12) consecutive month period, respectively.

Compliance with the above HAP limits, combined with the potential to emit HAP from all other emission units at this source, shall limit the HAP emissions from the entire source to less than 10 tons per twelve (12) consecutive month period for each single HAP and less than 25 tons per twelve (12) consecutive month period for combined HAPs and shall render the requirements of 40 CFR 63, Subpart MMMM not applicable.

D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirements

D.1.7 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.1.1, D.1.3,and D.1.5 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.8 Particulate Control

In order to comply with Condition D.1.4 the dry filters for particulate control shall be in operation and control emissions from the eight (8) paint booths at all times that the booths are in operation.

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

D.1.9 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (PTB001, PTB003, PTB004, PTB007 and PTB012) while one or more of the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.10 Record Keeping Requirements

(a) To document the compliance status with Conditions D.1.1, D.1.3 and D.1.5, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits established in Conditions D.1.1, D.1.3 and D.1.5. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

(1) The Permittee shall maintain records of the VOC usage.

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

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

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

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

(4) The cleanup solvent usage for each month.

(5) The total VOC and total single and combined HAP usage for each month.

(b) To document the compliance status with Condition D.1.9, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.

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

D.1.11 Reporting Requirements

Quarterly summaries of the information to document the compliance status with Conditions D.1.3 and D.1.5 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(h) Nine (9) natural gas-fired reciprocating internal combustion engines, constructed in 1999, identified as ACO009 through ACO010, CGN003 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (MMBTU/hr) and a rated output of 102 horsepower (HP). (Branch #1)

These generators are existing affected units under 40 CFR 63, Subpart ZZZZ.

(i) Two (2) engine test stands, identified as DYNO002 and DYNO004, constructed in 2013, each capable of testing #2 diesel fuel fired reciprocating internal combustion engines with a rated heat input of 10.5 MMBTU/hr and a rated output of 1500 HP. (Branch #1)

(j) One (1) engine test stand, identified as DYN033, capable of testing a natural gas fired reciprocating internal combustion engine with a rated heat input of 1.75 MMBTU/hr and a rated output of 250 HP. (Branch #1)

(k) One (1) engine test stand, identified as DYNO071, constructed in 2013, capable of testing a natural gas fired reciprocating internal combustion engine, using gasoline as back-up fuel, with a rated heat input of 3.5 MMBTU/hr and a rated output of 500 HP. (Branch #1)

(l) One (1) engine test stand, identified as DYN028, capable of testing a natural gas fired reciprocating internal combustion engine, using gasoline as back-up fuel, with a rated heat input of 10.5 MMBTU/hr and a rated output of 1500 HP. (Branch #1)

(m) One (1) engine test stand, identified as DYN056, constructed in 2006, capable of testing #2 diesel fuel fired reciprocating internal combustion engines with a rated heat input of 3.5 MMBTU/hr and a rated output of 500 HP. (Branch #1)

(n) One (1) engine test stand, identified as DYN057, constructed in 2006, capable of testing #2 diesel fuel fired reciprocating internal combustion engines with a rated heat input of 3.5 MMBTU/hr and a rated output of 500 HP. (Branch #1)

(o) Four (4) pyrolysis cleaning furnaces, constructed in 2008, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBTU/hr, each using a natural gas afterburner for control, each exhausting through stacks SE001, SE002, SE003, and SE004, respectively. (Branch #1)

(p) Two (2) pyrolysis cleaning furnaces, constructed in 2009, each unit using a natural gas afterburner for control:

(1) One (1) pyrolysis cleaning furnace, identified as OVE013, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, and exhausting through stack SE013.

(2) One (1) pyrolysis cleaning furnace, identified as OVE014, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBTU/hr, using a natural gas afterburner for control, and exhausting through stack SE014. (Branch #1)

(q) One (1) pyrolysis cleaning furnace, approved for in 2014 for construction, identified as OVE029 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, and exhausting through stack SE029. (Branch #1)

(r) One (1) pyrolysis cleaning furnace, constructed in 2012, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, exhausting through stack SE016. (Branch #1)

(gg) One (1) pyrolysis cleaning furnace, identified as OVE036, approved in 2018 for construction, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE036. (Branch #53)

(hh) One (1) pyrolysis cleaning furnace, identified as OVE042, approved in 2018 for construction, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE042. (Branch #53)

Insignificant Activities:

(c) Seven (7) test stands, identified as GTS001 through GTS005, GTS007, and GTS011, constructed in 1998, used to test remanufactured engines, with a maximum natural gas heat input of 0.088 MMBTU/hr each, consuming a maximum of 85.6 ft^3 of natural gas per hour, and used to set up and run a remanufactured engine for a maximum of twelve (12) minutes. [326 IAC 2-2] (Branch #1)

(ee) Welding and Flame Cutting Operations:

(i) Two (2) metal inert gas (MIG) (carbon steel) welding stations, each approved in 2014 for construction, identified as WEL002 and WEL073, respectively, each with a maximum electrode consumption of 9 lbs/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(ii) One (1) tungsten inert gas (TIG) (carbon steel) welding station, approved in 2014 for construction, identified as WEL037, with a maximum electrode consumption of 0.3 lbs/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(iii) One (1) tungsten inert gas (TIG) (carbon steel) welding station, constructed in 2013, identified as WEL118, with a maximum electrode consumption of 0.3 lbs/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(iv) Once (1) stick welder station using #6013 and #6011 electrodes, approved in 2014 for construction, identified as WEL083, with a maximum electrode consumption of 20 lbs/hr, controlled by baghouse DUC095 and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(v) One (1) Tungsten Inert Gas (TIG)(carbon steel) welder, identified as WEL200, approved in 2018 for construction, with a maximum electrode consumption of 0.3 lbs/hr, exhausting indoors. (Branch #1)

(ff) One (1) propane-fired oven/kiln, constructed in 2013, identified as OVE009, with a maximum heat input rate of 0.2 MMBTU/hr, controlled by baghouse DUC063 and exhausting to stack/vent DUC063. [326 IAC 6.5-1-2] (Branch #53)

(gg) Three (3) propane-fired ovens/kilns, each constructed in 2013, identified as OVE018, OVE022, OVE031, respectively, each with a maximum heat input rate of 0.2 MMBTU/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(hh) One (1) propane-fired oven/kiln, approved in 2014 for construction, identified as OVE033, with a maximum heat input rate of 0.2 MMBTU/hr, uncontrolled and exhausting indoors. [326 IAC 6.5-1-2] (Branch #53)

(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 2-7-5(1)]

D.2.1 PSD Minor Limitations - Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO) [326 IAC 2-2]

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

(a) #2 diesel fuel usage for all reciprocating internal combustion engines shall not exceed 38,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

(b) Gasoline usage for all reciprocating internal combustion engines shall not exceed 10,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

(c) The NOx emissions from the reciprocating internal combustion engines shall not exceed 608.58 pounds per kilogallon of diesel for diesel fuel combustion and 179.30 pounds per kilogallon of gasoline for gasoline combustion.

(d) The CO emissions from the reciprocating internal combustion engines shall not exceed 131.10 pounds per kilogallon of diesel for diesel fuel combustion and 108.90 pounds per kilogallon of gasoline for gasoline combustion.

(e) VOC and CO emissions from the furnaces shall not exceed the following:

Unit ID	VOC (lb/hr)	CO (lb/hr)
OVE001	0.0174	0.05
OVE002	0.0174	0.05
OVE003	0.0174	0.05
OVE004	0.0174	0.05
OVE013	0.0348	0.1
OVE014	0.0174	0.05
OVE016	0.0348	0.1
OVE029	0.0348	0.1
OVE036	0.0348	0.1
OVE042	0.0174	0.05

Compliance with the above VOC, CO, NOx, and fuel usage limits and the limit contained in Condition D.1.3, combined with the potential to emit VOC, CO, and NOx from all other emission units at this source, shall limit the source-wide VOC, CO, and NOx emissions to less than 250 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.2.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2-2 (Incinerators), the Permittee shall comply with the following for the pyrolysis cleaning ovens (OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE016, OVE029, OVE036, and OVE042):

(1) All incinerators shall comply with the following requirements:

(A) Consist of primary and secondary chambers or the equivalent.

(B) Be equipped with a primary burner unless burning only wood products.

(C) Comply with 326 IAC 5-1 and 326 IAC 2.

(D) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in subsection (3).

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

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

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

(F) If any of the requirements of subdivisions (A) through (E) are not met, then the owner or operator shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

(2) An incinerator is exempt from subsection (1)(E) if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P*, State Implementation Plan for Indiana.

(3) An owner or operator developing an operation and maintenance plan pursuant to subsection (1)(D) must comply with the following:

(A) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in subsection (1)(E) and include the following:

(i) Procedures for receiving, handling, and charging waste.

(ii) Procedures for incinerator startup and shutdown.

(iii) Procedures for responding to a malfunction.

(iv) Procedures for maintaining proper combustion air supply levels.

(v) Procedures for operating the incinerator and associated air pollution control systems.

(vi) Procedures for handling ash.

(vii) A list of wastes that can be burned in the incinerator.

(B) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.

(C) The operation and maintenance plan must be readily accessible to incinerator operators.

(D) The owner or operator of the incinerator shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section.

(4) The owner or operator of the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

If any of the above requirements are not met, burning shall be terminated immediately.

D.2.3 Particulate [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the ten (10) controlled pyrolysis cleaning furnaces (OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE016, OVE029, OVE036, and OVE042), the natural gas-fired reciprocating internal combustion engines fired at test cells ACO009 through ACO010, CGN003 through CGN008, CGN011, DYN033, DYN0071, and DYN028, the #2 diesel fuel-fired reciprocating internal combustion engines fired at test cells DYNO002, DYNO004, DYN056, DYN057, GTS001 through GTS005, GTS007, and GTS011, the welding and flame cutting operations (WEL002, WEL073, WEL037, WEL118, WEL083, and WEL200) and the five (5) propane-fired ovens/kilns (OVE009, OVE018, OVE022, OVE031, and OVE033) shall each not exceed 0.03 grains per dry standard cubic foot.

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirements

D.2.5 Particulate Matter

In order to comply with Condition D.2.3 the afterburners for particulate control shall be in operation and control emissions from the controlled pyrolysis cleaning furnaces (OVE001, OVE002, OVE003, OVE004, OVE013, OVE0014, OVE016, OVE029, OVE036, and OVE042) at all times the controlled pyrolysis cleaning furnaces are in operation, and the baghouse, identified as DUC091, shall be in operation at all times the welding station, WEL083, is in operation.

D.2.6 VOC and CO

In order to comply with Condition D.2.1 and D.2.2, the natural gas-fired after burner control shall be in operation and control emissions from furnaces OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE016, OVE029, OVE036, and OVE042 at all times the furnaces are in operation.

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

D.2.7 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.1, the Permittee shall maintain records of the monthly natural gas, #2 diesel fuel and gasoline usage by all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces at the source.

(b) To document compliance with Condition D.2.6, the Permittee shall maintain records of the 8-hour shift combustion chamber temperature of the pyrolysis cleaning furnaces.

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

D.2.8 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.2.1 shall be submitted using the reporting form located at the end of this permit, or its equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(s) Two (2) baghouses, identified as DUC081 and DUC083, constructed in 2012, each with a gas flow rate of greater than 4,000 actual cubic foot per minute, for controlling grinding, machining operations and sand blasting operations with an uncontrolled potential particulate emissions of greater than 25 pounds per day and the following:

(1) One (1) soda blasting unit, constructed in 2008, identified as BLA056, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC081, exhausting indoors only; and

(2) One (1) soda blasting unit, constructed in 2008, identified as BLA057, with a maximum capacity of 12.5 lb/hr of blast media, controlled by baghouse DUC083, exhausting indoors only. (Branch #1)

(t) One (1) soda blasting unit, identified as BLA037, constructed in 2003, equipped with a baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 12.5 lb/hr of blast media. (Branch #1)

(u) One (1) plastic bead abrasive blasting unit, identified as BLA045, constructed in 2006, equipped with a cyclone (integral) and baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 116 pounds of abrasive per hour. (Branch #1)

(v) One (1) plastic bead blast unit, constructed in 2008, identified as BLA073, with a maximum capacity of 108 lb/hr of blast media, controlled by cyclone (integral) and baghouse DUC082, exhausting indoors only. (Branch #1)

(w) Four (4) pneumatic plastic bead blasting units, constructed in 2008, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using **a cyclone (integral)** dust collector for control, identified as DUC083, DUC081, DUC082, and DUC063, respectively, and each exhausting indoors. (BLA080 at Branch #53, others at Branch #1)

(x) One (1) mechanically powered steel shot blasting unit, constructed in 2013, identified as BLA119, with a maximum capacity of 800 lbs/hr blast media with a maximum density of 487 lbs/ft^3, controlled by air wash (integral) and baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(y) Four (4) mechanically powered steel shot blasting units, constructed in 2008, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using air wash (integral) and a baghouse for control, identified as DUC083, DUC081, DUC082, and DUC081, respectively, and each exhausting indoors. (Branch #1)

(z) Seven (7) plastic blaster units, constructed in 2009:

(1) One (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) and baghouse DUC081, exhausting indoors; (Branch #1)

(2) Three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by cyclone (integral) and baghouse DUC081, exhausting indoors; (Branch #1)

(3) One (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with

a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) and baghouse DUC082, exhausting indoors; (Branch #1)

(4) One (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) baghouse DUC081, exhausting indoors; and (Branch #1)

(5) One (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by cyclone (integral) and baghouse DUC093, exhausting indoors. (Branch #53)

(aa) Three (3) steel shot blaster units, constructed in 2009:

(1) Two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, and each unit controlled by **an air wash (integral) and** baghouse DUC081, exhausting indoors; and

(2) One (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by baghouse DUC081, exhausting indoors. (Branch #1)

(bb) One (1) steel shot blast unit, constructed in 2012, identified as BLA083, with a maximum capacity of 800 lb/hr of blast media, using a baghouse as control, identified as DUC091, and exhausting inside the building. (Branch #53)

(cc) One (1) aluminum oxide blast unit, constructed in 2012, identified as BLA020, with a maximum capacity of 315 lb/hr of blast media, using a cyclone (integral) and baghouse as control, identified as DUC029, and exhausting inside the building. (Branch #1)

(dd) One (1) sand blast unit, constructed in 2012, identified as BLA018, with a maximum capacity of 182 lb/hr of blast media, using a **cyclone (integral) and** baghouse as control, identified as DUC081, and exhausting inside the building. (Branch #1)

(ee) Two (2) mechanical blasters, each constructed in 2013, identified as BLA108 and BLA114, respectively, each with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by air wash (integral) and baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(ff) One (1) totally enclosed mechanical blaster, approved in 2014 for construction, identified as BLA115, with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by air wash (integral) and baghouse DUC083 and exhausting indoors. (Branch #1)

Insignificant Activities:

(d) One (1) aluminum oxide abrasive blasting unit, identified as BLA065, constructed in 2006, equipped with a cyclone (integral) and baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 315 pounds of abrasive per hour.
[326 IAC 6.5-1-2] (Branch #1)

(e) Two (2) armex empire blasting units, identified as BLA063 and BLA066, constructed in 2006, each equipped with a baghouse for particulate control, identified as DUC081, respectively, exhausting inside the building, capacity: 12.5 pounds of abrasive per hour, each. [326 IAC 6.5-1-2] (Branch #1)

(f) One (1) armex empire blasting unit, identified as BLA069, constructed in 2006, equipped with a baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity:

12.5 pounds of abrasive per hour.
[326 IAC 6.5-1-2] (Branch #1)

(g) Two (2) steel shot peener units, identified as BLA019 and BLA068, constructed in 2006, each equipped with air wash (integral) and a baghouse for particulate control, identified as DUC082, respectively, exhausting inside the building, capacity: 600 pounds of abrasive per hour, each. [326 IAC 6.5-1-2] (Branch #1)

(h) Four (4) sodium bicarbonate blast cabinets, identified as BLA031, BLA032, BLA034, and BLA042, constructed in 2006, controlled by a dust collector, identified as DUC083, capacity:12.5 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(i) One (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA008, constructed in 2006, controlled by a dust collector, identified as DUC083, capacity: 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(j) One (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA041, constructed in 2006, controlled by a cyclone (integral) and dust collector, identified as DUC084, capacity: 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(k) One (1) soda blasting unit, constructed in 2009, identified as BLA064, with a maximum capacity of 12.5 lb/hr blast media, with a maximum process weight rate of 300 lb/hr, and controlled by baghouse DUC084. [326IAC 6.5-1-2] (Branch #1)

(l) One (1) totally enclosed pneumatic blaster, constructed in 2013, identified as BLA113, with a maximum capacity of 66 lbs/hr, using soda/Armex blast material with a maximum density of 62 lbs/ft^3, controlled by baghouse DUC063 and exhausting to stack/vent DUC063. [326IAC 6.5-1-2] (Branch #53)

(m) One (1) totally enclosed pneumatic blaster, approved in 2014 for construction, identified as BLA116, with a maximum capacity of 108 lbs/hr, using plastic bead blast media with a maximum density of 59 lbs/ft^3, controlled by cyclone (integral) and baghouse DUC083 and exhausting indoors. [326IAC 6.5-1-2] (Branch #1)

(t) One (1) abrasive blaster using coal slag (Black Beauty) media, identified as BLA007, constructed in 2000, controlled by a cyclone (integral) and dust collector, identified as DUC084, with a maximum capacity of 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(u) Two (2) abrasive blasters using coal slag (Black Beauty) media, identified as BLA009 and BLA011, respectively, constructed in 2000, controlled by a **cyclone (integral) and** dust collector, identified as DUC081, each with a maximum capacity of 182 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(v) Two (2) baghouses (ID Nos. DUC029 and DUC081), each with a gas flow rate of greater than 4,000 actual cubic feet per minute, for controlling grinding and machining operations with uncontrolled potential particulate emissions of less than 25 pounds per day. [326 IAC 6.5-1-2] (Branch #1)

(w) Two (2) baghouses, each approved in 2014 for construction, identified as DUC094 and DUC096, respectively, each with a gas flow rate of less than or equal to 4,000 actual cubic feet per minute, for controlling buffing and grinding operations. [326 IAC 6.5-1-2] (Branch #53)

(x) One (1) sodium bicarbonate blast cabinet, identified as BLA033, constructed in 2006, controlled by a dust collector, identified as DUC082, with a maximum capacity of 12.5 lb/hr of blast media. [326 IAC 6.5-1-2] (Branch #1)

(bb) Four (4) plastic bead blast units, constructed in 2012, identified as BLA046, BLA061, BLA100,

and BLA105, each with a maximum capacity of 108 lb/hr of blast media, using a cyclone (integral) and baghouse as control, identified as DUC082, DUC092, DUC081, and DUC083, respectively, and exhausting inside the building. [326 IAC 6.5-1-2] (BLA061 at Branch #53, others at Branch #1)

(cc) Four (4) armex blast units, constructed in 2012, identified as BLA094, BLA097, BLA098, and BLA099, each with a maximum capacity of 12.5 lb/hr of blast media, using a baghouse as control, identified as DUC083, DUC083, DUC082, and DUC082, respectively, and exhausting inside the building. [326 IAC 6.5-1-2] (Branch #1)

(ii) One (1) steel shot abrasive blaster, identified as BLA152, approved in 2018 for construction, with a maximum capacity of 800 lb/hr of blast media, using air wash (integral) and baghouse DUC063 as control, and exhausting indoors. (Branch #53)

(jj) One (1) plastic bead abrasive blaster, identified as BLA154, approved in 2018 for construction, with a maximum capacity of 108 lb/hr of blast media, using cyclone (integral) and baghouse DUC081 as control, and exhausting indoors. (Branch #1)

Summary Table	
Baghouse/ Dust collector ID	**Emissions unit**
DUC029	BLA020
DUC063	BLA119, BLA108, BLA113, BLA114, BL152
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066, BL154
DUC082	BLA073, BLA078, BLA079, BLA089, BLA033, BLA046, BLA098, BLA099, BLA019, BLA068, BLA080
DUC083	BLA057, BLA074, BLA075, BLA031, BLA032, BLA034, BLA042, BLA008, BLA061, BLA105, BLA115, BLA116, BLA097, BLA094, BLA115, BLA116
DUC084	BLA007, BLA037, BLA045, BLA065, BLA069, BLA041, BLA064
DUC091	BLA083
DUC092	BLA061
DUC093	BLA091
DUC094	buffing, grinding
DUC096	buffing, grinding

(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 2-7-5(1)]

D.3.1 PSD Minor Particulate Limitations [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable for PM, PM10, and PM2.5, the Permittee shall comply with the following:

Baghouse ID	Emission Unit IDs	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
DUC029	BLA020	0.72	0.72	0.72
DUC063	BLA119, BLA108, BLA113, BLA114, BL152	2.36	2.05	2.05
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066, BL154	8.06	7.03	7.03
DUC082	BLA073, BLA078, BLA079, BLA089, BLA033, BLA046, BLA098, BLA099, BLA019, BLA068, BLA080	3.17	2.91	2.91

DUC083	BLA057, BLA074, BLA075, BLA031, BLA032, BLA034, BLA042, BLA008, BLA061, BLA105, BLA097, BLA094, BLA115, BLA116	1.85	1.75	1.75
DUC084	BLA007, BLA037, BLA045, BLA065, BLA069, BLA041, BLA064	1.91	1.91	1.91

Compliance with the above PM, PM10, PM2.5 limits, combined with the potential to emit PM, PM10, PM2.5 from all other emission units at this source, shall limit the source-wide PM, PM10, PM2.5 emissions to less than 250 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

D.3.2 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the grinding, blasting, and machining operations shall each not exceed 0.03 grains per dry standard cubic foot.

D.3.3 Opacity [326 IAC 2-7-10.5]

Pursuant to Significant Permit Modification No. 037-17110-00089, issued on July 11, 2003 and 326 IAC 2-7-10.5, there shall be no visible emissions (zero percent opacity) from the one (1) soda blasting unit, identified as BLA037, and controlled by DUC084, when venting inside the building.

D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

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

Compliance Determination Requirement

D.3.5 Particulate Control

(a) In order to comply with Conditions D.3.1 and D.3.2 the baghouses for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below:

Baghouse ID	Emission Unit IDs
DUC029	BLA020
DUC063	BLA119, BLA108, BLA113, BLA114, BL152
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066, BL154
DUC082	BLA073, BLA078, BLA079, BLA089, BLA033, BLA046, BLA098, BLA099, BLA019, BLA068, BLA080
DUC083	BLA057, BLA074, BLA075, BLA031, BLA032, BLA034, BLA042, BLA008, BLA061, BLA105, BLA097, BLA094, BLA115, BLA116
DUC084	BLA007, BLA037, BLA045, BLA065, BLA069, BLA041, BLA064
DUC091	BLA083
DUC092	BLA061
DUC093	BLA091
DUC094	buffing, grinding
DUC096	buffing, grinding

(b) 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 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.6 Baghouse Inspections

An inspection shall be performed semi-annually of all bags and dust collectors controlling each grinding and machining process and each blasting unit. All defective bags or cartridges shall be replaced.

D.3.7 Broken or Failed Bag Detection

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

(b) For a single compartment baghouse 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).

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 Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.8 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.6, the Permittee shall maintain records of the results of the inspections required under Condition D.3.6.

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

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

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

(1) One (1) natural gas fired boiler, rated at 4.5 MMBTU/hr, constructed in 1993. [326 IAC 6.5-1-2] (Branch #1)

(2) Four (4) natural gas-fired, indirect-fired space heaters identified as HTR171, HTR172, HTR173, and HTR174, each constructed in 2005, each with a maximum capacity of 0.3 MMBTU/hr. [326 IAC 6.5-1-2] (Branch #53)

(o) Twenty-four (24) degreasing units, identified as D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273-CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042, T268-CLT0126, and SCT501 through SCT511 constructed after July 1, 1990.
[326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #1)

(p) Five (5) degreasing units, identified as G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011 and D265-CLT053, constructed after January 1, 1980 and prior to July 1, 1990. [326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #1)

(q) One (1) degreasing unit spray wash cabinet, approved in 2014 for construction, identified as CLT064, with a maximum usage of 234 pounds per year.
[326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #53)

(r) One (1) degreasing unit differential cleaning tank, approved in 2014 for construction, identified as CLT096, with a maximum usage of 330 gallons per year. [326 IAC 8-3-2] [326 IAC 8-3-8] (Branch #53)

(s) One (1) degreasing unit AJA Lift, approved in 2014 for construction, identified as ADJ015, with a maximum usage of 110 gallons per year. [326 IAC 8-3-2]
[326 IAC 8-3-8] (Branch #53)

(z) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, constructed in 2012, identified as UPS027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2] (Branch #1)

Under NSPS, Subpart IIII, this unit is considered to be an affected facility.

Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

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

D.4.1 Particulate Matter (PM) [326 IAC 6.5-1-2]

(a) Pursuant to 326 IAC 6.5-1-2(b)(3) (Particulate Matter Limitations Except Lake County) the PM from the 4.5 MMBTU per hour heat input boiler shall be limited to 0.01 grains per dry standard cubic foot of exhaust air, which is equivalent to 0.86 pounds per hour at an exhaust flow rate of 10,000 dry standard cubic foot.

(b) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the 227 hp emergency diesel generator shall not exceed 0.03 grains per dry standard cubic foot.

(c) Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the natural gas-fired space heaters, identified as HTR171, HTR172, HTR173, and HTR174 shall each not exceed 0.03 grains per dry standard cubic foot.

D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

(a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaners G263-CLT038, G272-CLT018, D268-CLT020, D270-PEQ011, D265-CLT053 and SCT501 through SCT511 constructed after January 1, 1980 and prior to July 1, 1990, the Permittee shall:

(1) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:

(A) Equip the degreaser with a cover;

(B) Equip the degreaser with a facility for draining cleaned parts;

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

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

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

(F) Store waste solvent only in closed containers.

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

(b) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaners D271-CLT21, D264-CLT054, G266-CLT056, I261, T264-CLT095, T263-CLT137, G273- CLT017, G274-CLT019, G271-CLT043, D262-CLT080, G264-CLT083, G276-CLT042, T268-CLT0126, SCT501 through SCT511, CLT064, CLT096, and ADJ015 without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:

(1) The owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met:

(A) Equip the degreaser with a cover;

(B) Equip the degreaser with a facility for draining cleaned parts;

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

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

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

(F) Store waste solvent only in closed containers.

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

(2) The owner or operator of a cold cleaner degreaser subject to this subsection shall ensure the following additional control equipment and operating requirements are met:

(A) 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):

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

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

(iii) A refrigerated chiller.

(iv) Carbon adsorption.

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

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

(C) If used, solvent spray:

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

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

D.4.3 Volatile Organic Compounds (VOC) [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 cleaner degreaser with a solvent that has a VOC composite partial vapor pressure than 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) for all of the degreasers at this source.

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

D.4.4 Record Keeping Requirements

(a) Pursuant to 326 IAC 8-3-8(c)(2), on and after January 1, 2015, the following records shall be maintained for each purchase of cold cleaner degreaser solvent:

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

(2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

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

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

SECTION E.1 NEW SOURCE PERFORMANCE STANDARDS FOR STATIONARY COMPRESSION IGNITION INTERNAL COMBUSTION ENGINES [40 CFR 60, Subpart IIII]

Emissions Unit Description:

(z) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, constructed in 2012, identified as UPS027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2] (Branch #1)

Under NSPS, Subpart IIII, this unit is considered to be an affected facility.

Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

New Source Performance Standards (NSPSP) Requirements

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

(a) The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12, for the emergency diesel generator (UPS027), as specified in 40 CFR 60, Subpart IIII in accordance with the schedule in 40 CFR 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Ave.
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included in its entirety as Attachment A of this permit), which are incorporated by reference as 326 IAC 12, for the emergency diesel generator (UPS027):

(1) 40 CFR 60.4200(a)(4), and (c)
(2) 40 CFR 60.4205(b), and (e)
(3) 40 CFR 60.4206
(4) 40 CFR 60.4207(b)
(5) 40 CFR 60.4208
(6) 40 CFR 60.4209(a)
(7) 40 CFR 60.4211(a), (c), (f), and (g)(2)
(8) 40 CFR 60.4212
(9) 40 CFR 60.4214(b), (c), and (d)
(10) 40 CFR 60.4218
(11) 40 CFR 60.4219
(12) Table 5
(13) Table 8

SECTION E.2 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: STATIONAIRY RECIPROCATING INTERNAL COMBUSTION ENGINES [40 CFR 63, Subpart ZZZZ]

Emissions Unit Description:

(h) Nine (9) natural gas-fired reciprocating internal combustion engines, constructed in 1999, identified as ACO009 through ACO010, CGN003 through CGN008 and CGN011, each with a rated heat input of 0.725 million British thermal units per hour (MMBTU/hr) and a rated output of 102 horsepower (HP). (Branch #1)

These generators are existing affected units under 40 CFR 63, Subpart ZZZZ.

Insignificant Activities

(z) Activities associated with emergencies, including emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(1) One (1) emergency diesel generator, constructed in 2012, identified as UPS027, with a maximum heat output of 227 horsepower. [326 IAC 6.5-1-2] (Branch #1)

Under NSPS, Subpart IIII, this unit is considered to be an affected facility.

Under NESHAP, Subpart ZZZZ, this unit is considered to be an affected facility.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

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

(a) Pursuant to 40 CFR 63.6605, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, as specified in 40 CFR Part 63, Subpart ZZZZ, in accordance with schedule in 40 CFR 63 Subpart ZZZZ, for the nine (9) natural gas-fired reciprocating internal combustion engines (ACO009 through ACO010, CGN003 through CGN008 and CGN011).

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

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

and

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

E.2.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR 63, Subpart ZZZZ]

(a) The Permittee shall comply with the following provisions of 40 CFR 63, Subpart ZZZZ (included in its entirety as Attachment B of this permit), which are incorporated by reference as 326 IAC 20-82, for the nine (9) natural gas-fired reciprocating internal combustion engines (ACO009 through ACO010, CGN003 through CGN008 and CGN011):

(1) 40 CFR 63.6580
(2) 40 CFR 63.6585
(3) 40 CFR 63.6590(a)(1)(iii) and (iv)
(4) 40 CFR 63.6595(a)(1), (b), and (c)
(5) 40 CFR 63.6603(a)
(6) 40 CFR 63.6605
(9) 40 CFR 63.6625(e)(5)
(10) 40 CFR 63.6630(a), (b), and (c)
(11) 40 CFR 63.6635
(12) 40 CFR 63.6640(a), and (b)
(14) 40 CFR 63.6650
(15) 40 CFR 63.6655
(16) 40 CFR 63.6660
(17) 40 CFR 63.6665
(18) 40 CFR 63.6670
(19) 40 CFR 63.6675
(20) Table 2d (item 6)
(25) Table 8

(b) The Permittee shall comply with the following provisions of 40 CFR 63, Subpart ZZZZ (included in its entirety as Attachment B of this permit), which are incorporated by reference as 326 IAC 20-82, for the emergency diesel generator (UPS027):

(1) 40 CFR 63.6580
(2) 40 CFR 63.6585
(3) 40 CFR 63.6590(a)(2)(iii) and (c)(1)
(4) 40 CFR 63.6595(a)(7)
(5) 40 CFR 63.6665
(6) 40 CFR 63.6670
(7) 40 CFR 63.6675

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

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wemsing Road and 911 W. Division Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-33431-00089

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

Please check what document is being certified:

□ Annual Compliance Certification Letter

□ Test Result (specify) _____.

□ Report (specify) _____.

□ Notification (specify) _____.

□ Affidavit (specify) _____.

□ Other (specify) _____.

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

Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wemsing Road and 911 W. Division Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-33431-00089

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

□ This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) 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:

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
COMPLIANCE AND ENFORCEMENT BRANCH, OFFICE OF AIR QUALITY
Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road and 911 W. Division Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-33431-00089
Facility: Reciprocating Internal Combustion Engines
Parameter: Fuel Usage
Limit: (a) #2 diesel fuel usage for all reciprocating internal combustion engines shall not exceed 38,000 gallons per 12 consecutive month period, with compliance determined at the end of each month; and
(b) gasoline usage for all reciprocating internal combustion engines shall not exceed 10,000 gallons per 12 consecutive month period, with compliance determined at the end of each month.

QUARTER : _____ YEAR: _____

	Column 1	Column 2	Column 1 + 2
	This Month	Previous 11 Months	12 Month Total
Month-1 / #2 Diesel Fuel (Gallons)			
Month-1 / Gasoline (Gallons)			
Month-2 / #2 Diesel Fuel (Gallons)			
Month-2 / Gasoline (Gallons)			
Month-3 / #2 Diesel Fuel (Gallons)			
Month-3 / Gasoline (Gallons)			

☐ No deviation occurred in this quarter.

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road and 911 W. Division Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-33431-00089
Facility: Surface Coating Operations
Parameter: Hazardous Air Pollutants (HAPs)
Limit: Less than 1 and 12.33 tons per 12 consecutive month period for any single HAP and total HAP, respectively, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1 - Single HAP			
Month 1 - Total HAP			
Month 2 - Single HAP			
Month 2 - Total HAP			
Month 3 - Single HAP			
Month 3 - Total HAP			

□ No deviation occurred in this quarter.

□ Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Road and 911 W. Division Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-33431-00089
Facility: Surface Coating Operations (Engine, Stern Drive, Radiator, Diesel Engine, Transmission, PTB007, PTB012, PTB018)
Parameter: VOC Usage
Limit: Shall not exceed 60 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

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

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wemsing Road and 911 W. Division Road, Jasper, Indiana 47547
Part 70 Permit No.: T037-33431-00089

Months: _____ to _ Year: _____

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

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Significant Source Modification and Significant Permit Modification

Source Description and Location

Source Name:	**Japser Engine Exchange, Inc.**
Source Location:	**815 Wernsing Road and 911 W. Division Road, Jasper, Indiana 47547**
County:	**Dubois**
SIC Code:	**3714 (Motor Vehicle Parts and Accessories)**
Operation Permit No.:	**T 037-33431-00089**
Operation Permit Issuance Date:	**July 14, 2014**
Significant Source Modification No.:	**037-40381-00089**
Significant Permit Modification No.:	**037-40449-00089**
Permit Reviewer:	**Kelsey Bonhivert/Brian Wright**

Source Definition

Jasper Engines & Transmissions, Inc operates two plants, the Jasper Engines Exchange, Inc. − Branch #1, located at 815 Wernsing Road, Jasper, Indiana 47546 and the Jasper Engines Exchange, Inc. − Branch #50, located at 733 W. Division Road, Jasper, Indiana 47546. Jasper Reality, Inc. also operates two plants in Jasper, Jasper Engines Exchange, Inc. − Branch #53, located at 911 W. Division Road, and Jasper Engines Exchange, Inc. − Branch #70, located at 1220 Power Drive. IDEM, OAQ has examined whether any of these four plants are part of the same major source. Since Branch #1 and Branch #53 meet all three criteria of the major source definition, IDEM, OAQ finds that they are part of the same major source. Since none of the other plants meets all three criteria of the major source definition with any other plant, IDEM, OAQ finds that none of the other plants are part of the same major source with any other plant.

This determination was made under Significant Permit Modification No.:037-34641-00089, issued on November 7, 2014.

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 037-33431-00089 on July 14, 2014. The source has since received the following approvals:

Permit Type	Permit Number	Issuance Date
Significant Source Modification	037-34417-00089	October 21, 2014
Significant Permit Modification	037-34641-00089	November 7, 2014

County Attainment Status

The source is located in Dubois County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.[1]
$PM_{2.5}$	Unclassifiable or attainment effective April 5, 2005, for the annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

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

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

(c) Other Criteria Pollutants
Dubois 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 and Part 70 Permit applicability.

Greenhouse Gas (GHG) Emissions

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

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

Source Status - Existing Source

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

	Source-Wide Emissions Before Modification (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP[1] (Manganese)**	**Combined HAPs**
Total for Source	**207.56**	**198.73**	**198.73**	**1.75**	**191.09**	**234.91**	**226.91**	8.32	24.89
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--

[1]Single highest source-wide HAP.

(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 HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

(c) These emissions are based on the Appendix A of the TSD of Significant Permit Modification No.: 037-34641-00089, issued on November 7, 2014.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Japser Engine Exchange, Inc. on August 27, 2018, relating to the construction of a cleaning furnace, abrasive blasters, and welding and woodworking operations. The following is a list of the proposed emission units and pollution control device(s):

(a) One (1) pyrolysis cleaning furnace, identified as OVE036, approved in 2018 for construction, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE036. (Branch #53)

(b) One (1) pyrolysis cleaning furnace, identified as OVE042, approved in 2018 for construction, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE042. (Branch #53)

(c) One (1) steel shot abrasive blaster, identified as BLA152, approved in 2018 for construction, with a maximum capacity of 800 lb/hr of blast media, using air wash (integral) and baghouse DUC063 as control, and exhausting indoors. (Branch #53)

(d) One (1) plastic bead abrasive blaster, identified as BLA154, approved in 2018 for construction, with a maximum capacity of 108 lb/hr of blast media, using cyclone (integral) and baghouse DUC081 as control, and exhausting indoors. (Branch #1)

(e) One (1) Tungsten Inert Gas (TIG)(carbon steel) welder, identified as WEl200, approved in 2018 for construction, with a maximum electrode consumption of 0.3 lbs/hr, exhausting indoors. (Branch #1)

(f) Woodworking Operations controlled by dust collectors DUC036 and DUC056 (Branch #1):

(1) One (1) 12" table saw, identified as SAW048

(2) One (1) panel saw, identified as SAW049

(3) One (1) table saw, identified as SAW050

(4) One (1) 14" band saw, identified as SAW051

(5) One (1) 12" compound miter saw, identified as SAW052

(6) One (1) sliding miter saw, identified as SAW053

(7) One (1) horizontal edge sander, identified as SAN058

(8) One (1) router table, identified as CTL001

(9) Two (2) stationary jointers, identified as CTL002 and CTL003.

"Integral Part of the Process" Determination

In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, the potential to emit particulate matter from the woodworking operations were calculated after consideration of the controls for determining operating permit level and for determining the applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and Prevention of Significant Deterioration (PSD).

"Integral Part of the Process" Determination

The Permittee submitted the following information to justify why the cyclone and air wash blast media recovery systems should be considered an integral part of the shot blasters:

(a) The cyclones and air wash serve a primary purpose other than pollution control.

Both the cyclone and air wash systems are primarily in place to separate fine particles and contaminants from reusable material in the media blasters. This ensures that these fines and contaminates are not re-entrained and to protect the fans/blast wheels required to keep the shot blaster operating properly. Information from the manufacturer of the shot blaster has indicated the shot blaster will not operate properly without the air wash and cyclone systems in place.

Shot material is continually recirculated and "good" shot is sent back to the media blasters, reducing wheel maintenance, increasing uptime, and blast performance. As the shot material is broken down, the fines and any contamination must be removed from the shot blasters. The fan on the cyclone, and separator plates in the air wash system, is necessary in the reclamation of the shot as well as removal of the fines and contamination. This material must be removed

because if not removed appropriately it will negatively impact the shot blaster systems and will result in increased maintenance and downtime. In addition, another problem is the fact that if the fine particulate is not adequately removed it would be re-entrained into the systems. If there is not enough fine particulate removal the blasters would be throwing a shot/dust mixture at the parts and the ability to shot blast would be diminished greatly or altogether. Parts would have to be sent through the shot blaster multiple times and/or slow the rate of blasting. If the cyclone and air wash systems were not in place the shot blasters would have to be shut down for cleaning and emptying on a weekly basis and significantly more blast media would be utilized. The cost savings resulting from both of these is discussed below in item b.

(b) The equipment has an overwhelming positive net economic effect.

All material collected by the cyclone and air wash systems is product that is recovered and re-introduced into the media blasters. However, if the cyclone was not in place, there are significant costs that would be incurred because of increased maintenance and material usage as shown in the table below:

Table 1 captures cost saving estimates for the average cyclone or air wash system. Jasper Engines utilizes one of these recovery systems on all media blasters that do not exclusively use a single use product such as sodium bicarbonate and Armex blast media. In the case of these single use blasters, no recovery efficiency is included in the attached emission calculations.

Table 1

Media cost per year (with recovery system)	$27,300
Labor costs per year (typical 8 hr/day usage)	$31,210
Cost of new media if not recycling/recirculating material	$157,290
Cost of weekly equipment shutdown for cleaning/maint.	$2,080
Total saving with control equipment per year	$132,070

* This total is per cyclone recirculation system and does not include the revenue lost from decreased production during shutdowns

(c) The process cannot operate without the cyclone.

As discussed above, the cyclone would be installed even if no air quality regulations were in place because without the cyclone in place, dust from the process would clog the systems, cause excessive maintenance, and pile up within the shot blasters or on the ground inside the facility. Significant effort would be required to remove accumulations of material, increasing maintenance, and production downtime.

IDEM, OAQ evaluated the information submitted and agrees that the cyclone should be considered an integral part of the shot blasters Therefore, the permitting level was determined using the potential to emit after the cyclone for purposes of determining permitting level and applicability of 326 IAC 6-3-2. Operating conditions in the proposed permit will specify that this cyclone shall operate at all times the shotblasting operation is in operation.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70 Modification to an Existing Source

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 2-7-10.5 and 326 IAC 2-7-11. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

	PTE Before Controls of the New Emission Units (ton/year)								
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_X**	**VOC**	**CO**	**Single HAP**	**Combined HAPs**
Aerosol Spray - Olive Drab Green	3.38E-04	3.38E-04	3.38E-04	--	--	0.003	--	--	1.72E-03
Natural Gas Combustion - OVE036	0.006	0.024	0.024	0.002	0.315	0.017	0.265	1.20E-06	5.95E-03
Furnaces - OVE036	11.826	11.826	11.826	0.016	0.237	15.242	43.800	--	--
Natural Gas Combustion - OVE042	0.003	0.013	0.013	0.001	0.171	0.009	0.143	6.49E-07	3.22E-03
Furnaces - OVE042	5.825	5.825	5.825	7.621	0.008	21.900	1.187	--	--
Blasting - BLA152, BLA154	0.94	0.84	0.84	--	--	--	--	--	--
Welding - WEL200	0.007	0.007	0.007	--	--	--	--	6.57E-04	
Woodworking	5.37E-04	5.37E-04	5.37E-04	--	--	--	--	--	--
Total:	**18.61**	**18.54**	**18.54**	**1.21**	**0.73**	**22.89**	**66.11**	**0.00**	**0.01**

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

(a) Approval to Construct

Pursuant to 326 IAC 2-7-10.5(g)(4), a Significant Source Modification is required because this modification has the potential to emit PM/PM10/direct PM2.5, and VOC at greater than or equal to twenty-five (25) tons per year.

(b) Approval to Operate

Pursuant to 326 IAC 2-7-12(d)(1), this change to the permit is being made through a Significant Permit Modification because this modification does not qualify as a Minor Permit Modification or as an Administrative Amendment.

Permit Level Determination – PSD

The table below summarizes the potential to emit of the modification, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the Part 70

source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Project Emissions (ton/year)						
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$[1]**	**SO_2**	**NO_X**	**VOC**	**CO**
Aerosol Spray - Olive Drab Green	3.38E-04	3.38E-04	3.38E-04	--	--	0.003	--
Natural Gas Combustion - OVE036	11.826	11.826	11.826	0.016	0.237	15.242	43.800
Furnaces - OVE036	0.003	0.013	0.013	0.001	0.171	0.009	0.143
Natural Gas Combustion - OVE042	0.003	0.013	0.013	0.001	0.171	0.009	0.143
Furnaces - OVE042	5.825	5.825	5.825	7.621	0.008	21.90	1.187
Blasting - BLA152, BLA154	0.94	0.84	0.84	--	--	--	--
Welding - WEL200	0.007	0.007	0.007	--	--	--	--
Woodworking	5.37E-04	5.37E-04	5.37E-04	--	--	--	--
Total for Modification	**18.61**	**18.54**	**18.54**	**1.21**	**0.73**	**22.89**	**66.11**
PSD Major Source Thresholds	250	250	250	250	250	250	250

[1]$PM_{2.5}$ listed is direct $PM_{2.5}$.

(a) This modification to an existing minor PSD stationary source is not major because the emissions increase of each PSD regulated pollutant is less than the PSD major source threshold. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

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 Part 70 source modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Source-Wide Emissions after Issuance (ton/year)						
Process / Emission Unit	**PM**	**PM_{10}**	**$PM_{2.5}$[1]**	**SO_2**	**NO_X**	**VOC**	**CO**
Surface Coating	45.96	45.96	45.96	–	–	56.90	–
Aerosol Spray	0.44	0.44	0.44	–	–	6.31	–
Cleaning Final Wash	–	–	–	–	–	3.42	–
Degreasing	–	–	–	–	–	91.40	–
Degreasing II	–	–	–	–	–	0.01	–
Internal Combustion Engines**	1.54	2.01	2.01	1.48	186.37	8.03	28.00
Propane Combustion	0.01	0.03	0.03	0.07	0.62	0.05	0.36
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.37	0.13	1.99
Natural Gas Combustion II	0.01	0.04	0.04	0.00	0.52	0.03	0.43
Emergency Generator	0.12	0.12	0.12	0.12	1.76	0.14	0.38
Furnaces	82.26	82.26	82.26	0.11	2.73	63.95	183.96
Blasting	31.33	29.42	29.42	–	–	–	–
Welding	3.82	3.82	3.82	–	–	–	–
Woodworking	1.12E-03	1.12E-03	1.12E-03	–	–	–	–
Total for Source	**165.54**	**164.28**	**164.28**	**1.80**	**194.37**	**167.48**	**34.27**
PSD Major Source Thresholds	250	250	250	250	250	250	250

[1]$PM_{2.5}$ listed is direct $PM_{2.5}$.
*Shaded cells indicate where a limit is included
**The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline and (2) 38,000 gal/yr of diesel fuel.

(a) This existing minor PSD stationary source will continue to be minor under 326 IAC 2-2 because the emissions of each PSD regulated pollutant will continue to be less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

(b) In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

VOC and CO emissions from the furnaces shall not exceed the following:

Unit ID	VOC (lb/hr)	CO (lb/hr)
OVE001	0.0174	0.05
OVE002	0.0174	0.05
OVE003	0.0174	0.05
OVE004	0.0174	0.05
OVE013	0.0348	0.1

OVE014	0.0174	0.05
OVE016	0.0348	0.1
OVE029	0.0348	0.1
OVE036	0.0348	0.1
OVE042	0.0174	0.05

Compliance with the above VOC, CO and NOx, limits, combined with the potential to emit VOC, CO, and NOx from all other emission units at this source, shall limit the source-wide CO, and NOx emissions to less than 250 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable.

Federal Rule Applicability Determination

Due to the modification at this source, federal rule applicability has been reviewed as follows:

New Source Performance Standards (NSPS):

(a) The requirements of the New Source Performance Standard for Incinerators, 40 CFR 60, Subpart E and 326 IAC 12, are not included in the permit for the pyrolysis cleaning furnaces, because the incinerators do not burn "solid waste," as defined in the Subpart. "Solid waste" means refuse, more than 50 percent of which is municipal type waste. The furnaces are used for parts cleaning.

(b) The requirements of the New Source Performance Standard for Commercial and Industrial Solid Waste Incineration Units, 40 CFR 60, Subpart CCCC and 326 IAC 12, are not included in the permit for the pyrolysis cleaning furnaces, because the incinerators do not burn "solid waste," as defined in the Subpart. Solid waste means the term solid waste as defined in 40 CFR 241.2: any garbage, or refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material. The furnaces are used for parts cleaning.

(c) The requirements of the New Source Performance Standard for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 2006, 40 CFR 60, Subpart EEEE and 326 IAC 12, are not included in the permit for the pyrolysis cleaning furnaces, because the incinerators are not "Other Solid Waste Incineration (OSWI)" units as defined in the subpart. The furnaces are used for parts cleaning.

(d) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit for this proposed modification.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR 63, Subpart DDDDD and 326 IAC 20-95 are not included in the permit for the pyrolysis cleaning furnaces because they are not considered process heaters.

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

Compliance Assurance Monitoring (CAM):

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

(1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

(b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.

(c) Pursuant to 40 CFR 64.2(b)(1)(iii), Acid Rain requirements pursuant to Sections 404, 405, 406, 407(a), 407(b), or 410 of the Clean Air Act are exempt emission limitations or standards. Therefore, CAM was not evaluated for emission limitations or standards for SO_2 and NO_X under the Acid Rain Program.

(d) Pursuant to 40 CFR 64.3(d), if a continuous emission monitoring system (CEMS) is required pursuant to other federal or state authority, the owner or operator shall use the CEMS to satisfy the requirements of CAM according to the criteria contained in 40 CFR 64.3(d).

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable to any of the new units as part of this modification.

State Rule Applicability Determination - Source Wide

Due to the modification at this source, state rule applicability has been reviewed as follows:

(a) 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))
PSD applicability is discussed under the Permit Level Determination – PSD section.

(b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of the entire source 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.

(c) 326 IAC 2-6 (Emission Reporting)
Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially. The first report is due no later than July 1, 2006, and subsequent reports are due every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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

State Rule Applicability Determination - New Units

Pyrolysis Furnaces (OVE036 and OVE042)

(a) 326 IAC 4-2-2 (Incinerators)
Pyrolysis cleaning furnaces OVE036 and OVE042 are subject to the requirements of 326 IAC 4-2-2, because each meet the definition of incinerator in 326 IAC 1-2-34, and are not subject to any of the rules identified in 326 IAC 4-2-1(b)(2). Pursuant to 326 IAC 4-2-2(b), each of the pyrolysis cleaning ovens is subject to 326 IAC 4-2-2(a)(5) since each is not subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P*, State Implementation Plan for Indiana.

Note: IDEM, OAQ considers pyrolysis paint burn off ovens as a form of incineration subject to 326 IAC 4-2. 326 IAC 1-2-34 defines "incinerator" as an engineered apparatus that burns waste substances with controls on combustion factors including, but not limited to temperature, retention time, and air. During the pyrolysis cleaning process within the ovens, metal parts coated with dried paint are heated for a specified time and at a specified oven temperature to the point where the dried paint is thermally degraded, with any smoke (particulate matter and VOC) controlled by the secondary chamber/afterburner. 326 IAC does not define the terms "burns" or "waste substances". For the pyrolysis cleaning ovens, IDEM OAQ has determined that the dried paint being removed from metal parts by pyrolysis are considered “waste substances” being "burned", and the temperature and pyrolysis time within the primary chamber, and the exhaust gas retention time and combustion air flow rate within the secondary chamber/afterburner are considered "controls on combustion factors".

(b) 326 IAC 6-2 (Particulate Emission Limitations for Source of Indirect Heating)
The pyrolysis furnaces are not subject to the requirements of 326 IAC 6-2 because they are not indirect heating units.

(c) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(a), the pyrolysis furnaces are exempt from the requirements of 326 IAC 6-3-2 because incinerators are exempt. Additionally, the furnaces are subject to 326 IAC 6.5, therefore 326 IAC 6-3 does not apply.

(d) 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the pyrolysis cleaning furnaces OVE036 and OVE042

(e) 326 IAC 9-1 (Carbon Monoxide Emission Limits)
The pyrolysis furnaces are not subject to the requirements of 326 IAC 9-1-2 because they are not refuse incinerators.

(f) 326 IAC 11-8 (Commercial and Industrial Solid Waste Incineration Units)
The pyrolysis furnaces are not subject to the requirements of 326 IAC 11-8 because the incinerators are not considered Commercial and Industrial Solid Waste Incineration (CISW) units, because they do not burn "solid waste," as defined in 40 CFR 60.2875.

Blasting (BLA152 and BLA154)

(g) 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County)
each of the blasting operations is subject to 326 IAC 6.5-1-2(a). Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the blasting operations BLA152 and BLA154 shall each not exceed 0.03 grains per dry standard cubic foot.

Based on the PM emission limit of 0.03 grains per dry standard cubic foot and the flowrates specified in the table below, PM emissions from each of the blasting operations BLA152 and BLA154 shall not exceed limited PM emission rates:

Control Device ID	Unit IDs	Unit Descriptions	Flowrate (acfm)	326 IAC 6.5-1-2 Limit (grains/dscf)	326 IAC 6.5-1-2 Allowable PM (lb/hr)
DUC063	BLA119, BLA108, BLA113, BLA114, BL152	Plastic Bead, Steel Shot, and Soda/Armex Blast Units	12,000	0.03	3.09
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066, BL154	Plastic Bead, Steel Shot, Sodium Bicarbonate, and Armex Blast Units	40,000	0.03	10.29

Welding (WEL200)

(h) 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the welding operation WEL200 shall not exceed 0.03 grains per dry standard cubic foot.

Woodworking

(i) 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the woodworking operations shall each not exceed 0.03 grains per dry standard cubic foot.

Compliance Determination and Monitoring Requirements

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

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

(a) There are no new Compliance Determination Requirements applicable to this modification.

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
OVE036 - Natural Gas Afterburner	Combustion Chamber Temperature	1x per 8-hour shift	Manufacturer's specifications	Response Steps
OVE042 - Natural Gas Afterburner	Combustion Chamber Temperature	1x per 8-hour shift	Manufacturer's specifications	Response Steps

These monitoring conditions are necessary because the natural gas afterburner for the pyrolysis cleaning furnaces must operate properly to assure compliance with 326 IAC 2-2 (PSD).

Proposed Changes

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

(1) New units were added to A and D sections in permit as applicable. Based on the integral determination, descriptions of units with integral control devices have been updated accordingly.

(2) Unit description of pyrolysis cleaning furnaces was updated for clarity.

(3) PSD minor limit incorporated for pyrolysis cleaning furnaces.

(4) D and E emission unit description box headers were updated.

(5) Part 70 quarterly reports were clarified by adding reporting units.

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

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

.....

(o) Four (4) ~~natural gas-controlled~~ pyrolysis cleaning furnaces, constructed in 2008, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBTU/hr, each using a natural gas afterburner for control, each exhausting through ~~a~~ stack**s SE001, SE002, SE003, and SE004, respectively**. (Branch #1)

(p) Two (2) ~~natural gas-controlled~~ pyrolysis cleaning furnaces, constructed in 2009, each unit using a natural gas afterburner for control ~~and each exhausting through a stack~~:

(1) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, identified as OVE013, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control**, and exhausting through stack SE013**.

(2) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, identified as OVE014, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBTU/hr, using a natural gas afterburner for control**, and exhausting through stack SE014**. (Branch #1)

(q) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, approved for in 2014 for construction, identified as OVE029 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, and exhausting through ~~a~~ stack **SE029**. (Branch #1)

(r) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, constructed in 2012, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, exhausting through ~~a~~ stack **SE016**. (Branch #1)

....

(u) One (1) plastic bead abrasive blasting unit, identified as BLA045, constructed in 2006, equipped with **cyclone (integral) and** baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 116 pounds of abrasive per hour. (Branch #1)

(v) One (1) plastic bead blast unit, constructed in 2008, identified as BLA073, with a maximum capacity of 108 lb/hr of blast media, controlled by **cyclone (integral) and** baghouse DUC082, exhausting indoors only. (Branch #1)

(w) Four (4) pneumatic plastic bead blasting units, constructed in 2008, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using **a cyclone (integral) and** dust collector for control, identified as DUC083, DUC081, DUC082, and DUC063, respectively, and each exhausting indoors. (BLA080 at Branch #53, others at Branch #1)

(x) One (1) mechanically powered steel shot blasting unit, constructed in 2013, identified as BLA119, with a maximum capacity of 800 lbs/hr blast media with a maximum density of 487 lbs/ft3, controlled by **air wash (integral) and** baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(y) Four (4) mechanically powered steel shot blasting units, constructed in 2008, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using **air wash (integral) and a** baghouse for control, identified as DUC083, DUC081, DUC082, and DUC081, respectively, and each exhausting indoors. (Branch #1)

(z) Seven (7) plastic blaster units, constructed in 2009:

(1) One (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **a cyclone (integral) and** baghouse DUC081, exhausting indoors; (Branch #1)

(2) Three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by **cyclone (integral) and** baghouse DUC081, exhausting indoors; (Branch #1)

(3) One (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **cyclone (integral) and** baghouse DUC082, exhausting indoors; (Branch #1)

(4) One (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **cyclone (integral) and** baghouse DUC081, exhausting indoors; and (Branch #1)

(5) One (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **cyclone (integral) and** baghouse DUC093, exhausting indoors. (Branch #53)

(aa) Three (3) steel shot blaster units, constructed in 2009:

(1) Two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, and each unit controlled by **air wash (integral) and** baghouse DUC081, exhausting indoors; and

(2) One (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by **air wash (integral)** baghouse DUC081, exhausting indoors. (Branch #1)

(bb) One (1) steel shot blast unit, constructed in 2012, identified as BLA083, with a maximum capacity of 800 lb/hr of blast media, using **air wash (integral)** baghouse as control, identified as DUC091, and exhausting inside the building. (Branch #53)

(cc) One (1) aluminum oxide blast unit, constructed in 2012, identified as BLA020, with a maximum capacity of 315 lb/hr of blast media, using **a cyclone (integral) and** baghouse as control, identified as DUC029, and exhausting inside the building. (Branch #1)

(dd) One (1) sand blast unit, constructed in 2012, identified as BLA018, with a maximum capacity of 182 lb/hr of blast media, using a **cyclone (integral) and** baghouse as control, identified as DUC081, and exhausting inside the building. (Branch #1)

(ee) Two (2) mechanical blasters, each constructed in 2013, identified as BLA108 and BLA114, respectively, each with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by **air wash (integral)** and baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(ff) One (1) totally enclosed mechanical blaster, approved in 2014 for construction, identified as BLA115, with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by **air wash (integral)** and baghouse DUC083 and exhausting indoors. (Branch #1)

.....

(gg) One (1) pyrolysis cleaning furnace, identified as OVE036, approved in 2018 for construction, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE036. (Branch #53)

(hh) One (1) pyrolysis cleaning furnace, identified as OVE042, approved in 2018 for construction, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE042. (Branch #53)

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

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

.....

(ee) Welding and Flame Cutting Operations:

(v) One (1) Tungsten Inert Gas (TIG)(carbon steel) welder, identified as WEl200, approved in 2018 for construction, with a maximum electrode consumption of 0.3 lbs/hr, exhausting indoors. (Branch #1)

.....

(ii) One (1) steel shot abrasive blaster, identified as BLA152, approved in 2018 for construction, with a maximum capacity of 800 lb/hr of blast media, using air wash (integral) and baghouse DUC063 as control, and exhausting indoors. (Branch #53)

(jj) One (1) plastic bead abrasive blaster, identified as BLA154, approved in 2018 for construction, with a maximum capacity of 108 lb/hr of blast media, using cyclone (integral) and baghouse DUC081 as control, and exhausting indoors. (Branch #1)

(kk) Woodworking Operations controlled by dust collectors DUC036 and DUC056 (Branch #1):

(1) One (1) 12" table saw, identified as SAW048

(2) One (1) panel saw, identified as SAW049

(3) One (1) table saw, identified as SAW050

(4) One (1) 14" band saw, identified as SAW051

(5) One (1) 12" compound miter saw, identified as SAW052

(6) One (1) sliding miter saw, identified as SAW053

(7) One (1) horizontal edge sander, identified as SAN058

(8) One (1) router table, identified as CTL001

(9) Two (2) stationary jointers, identified as CTL002 and CTL003.

.....

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:
~~Facility Description [326 IAC 2-7-5(14)]: Reciprocating Internal Combustion Engines~~

.....

(o) Four (4) ~~natural gas-controlled~~ pyrolysis cleaning furnaces, constructed in 2008, identified as OVE001, OVE002, OVE003, and OVE004, each with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, each with a total maximum heat input capacity of 0.43 MMBTU/hr, each using a natural gas afterburner for control, each exhausting through ~~a~~ stack**s SE001, SE002, SE003, and SE004, respectively**. (Branch #1)

(p) Two (2)~~ natural gas-controlled~~ pyrolysis cleaning furnaces, constructed in 2009, each unit using a natural gas afterburner for control ~~and each exhausting through a stack~~:

(1) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, identified as OVE013, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control**, and exhausting through stack SE013**.

(2) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, identified as OVE014, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.43 MMBTU/hr, using a natural gas afterburner for control**, and exhausting through stack SE014**. (Branch #1)

(q) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, approved for in 2014 for construction, identified as OVE029 with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, and with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, and exhausting through ~~a~~ stack **SE029**. (Branch #1)

(r) One (1) ~~natural gas-controlled~~ pyrolysis cleaning furnace, constructed in 2012, identified as OVE016, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a total maximum heat input capacity of 0.72 MMBTU/hr, using a natural gas afterburner for control, exhausting through ~~a~~ stack **SE016**. (Branch #1)

.....

(u) One (1) plastic bead abrasive blasting unit, identified as BLA045, constructed in 2006, equipped with **cyclone (integral) and** baghouse for particulate control, identified as DUC084, exhausting inside the building, capacity: 116 pounds of abrasive per hour. (Branch #1)

(v) One (1) plastic bead blast unit, constructed in 2008, identified as BLA073, with a maximum capacity of 108 lb/hr of blast media, controlled by **cyclone (integral) and** baghouse DUC082, exhausting indoors only. (Branch #1)

(w) Four (4) pneumatic plastic bead blasting units, constructed in 2008, identified as BLA074, BLA076, BLA078, and BLA080, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, each using **a cyclone (integral) and** dust collector for control, identified as DUC083, DUC081, DUC082, and DUC063, respectively, and each exhausting indoors. (BLA080 at Branch #53, others at Branch #1)

(x) One (1) mechanically powered steel shot blasting unit, constructed in 2013, identified as BLA119, with a maximum capacity of 800 lbs/hr blast media with a maximum density of 487 lbs/ft3, controlled by **air wash (integral) and** baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(y) Four (4) mechanically powered steel shot blasting units, constructed in 2008, identified as BLA075, BLA077, BLA079, and BLA081, each with a maximum capacity of 800 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, each using **air wash (integral) and a** baghouse for control, identified as DUC083, DUC081, DUC082, and DUC081, respectively, and each exhausting indoors. (Branch #1)

(z) Seven (7) plastic blaster units, constructed in 2009:

(1) One (1) unit, identified as BLA067, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **a cyclone (integral) and** baghouse DUC081, exhausting indoors; (Branch #1)

(2) Three (3) units, identified as BLA086, BLA087, and BLA088, each with a maximum capacity of 108 lb/hr blast media, each with a maximum process weight rate of 1020 lb/hr, and each controlled by **cyclone (integral) and** baghouse DUC081, exhausting indoors; (Branch #1)

(3) One (1) unit, identified as BLA089, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **cyclone (integral) and** baghouse DUC082, exhausting indoors; (Branch #1)

(4) One (1) unit, identified as BLA090, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **cyclone (integral) and** baghouse DUC081, exhausting indoors; and (Branch #1)

(5) One (1) unit, identified as BLA091, with a maximum capacity of 108 lb/hr blast media, with a maximum process weight rate of 1020 lb/hr, and controlled by **cyclone (integral) and** baghouse DUC093, exhausting indoors. (Branch #53)

(aa) Three (3) steel shot blaster units, constructed in 2009:

(1) Two (2) steel shot blast units, identified as BLA084 and BLA026, each with a maximum capacity of 1080 lb/hr blast media, each with a maximum process weight rate of 1200 lb/hr, and each unit controlled by **air wash (integral) and** baghouse DUC081, exhausting indoors; and

(2) One (1) steel shot blast units, identified as BLA085, with a maximum capacity of 1080 lb/hr blast media, with a maximum process weight rate of 1200 lb/hr, and controlled by **air wash (integral)** baghouse DUC081, exhausting indoors. (Branch #1)

(bb) One (1) steel shot blast unit, constructed in 2012, identified as BLA083, with a maximum capacity of 800 lb/hr of blast media, using **air wash (integral)** baghouse as control, identified as DUC091, and exhausting inside the building. (Branch #53)

(cc) One (1) aluminum oxide blast unit, constructed in 2012, identified as BLA020, with a maximum capacity of 315 lb/hr of blast media, using **a cyclone (integral) and** baghouse as control, identified as DUC029, and exhausting inside the building. (Branch #1)

(dd) One (1) sand blast unit, constructed in 2012, identified as BLA018, with a maximum capacity of 182 lb/hr of blast media, using a **cyclone (integral) and** baghouse as control, identified as DUC081, and exhausting inside the building. (Branch #1)

(ee) Two (2) mechanical blasters, each constructed in 2013, identified as BLA108 and BLA114, respectively, each with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by **air wash (integral)** and baghouse DUC063 and exhausting to stack/vent DUC063. (Branch #53)

(ff) One (1) totally enclosed mechanical blaster, approved in 2014 for construction, identified as BLA115, with a maximum capacity of 800 lbs/hr, using steel shot with a maximum density of 487 lbs/ft^3, controlled by **air wash (integral)** and baghouse DUC083 and exhausting indoors. (Branch #1)

....

(gg) One (1) pyrolysis cleaning furnace, identified as OVE036, approved in 2018 for construction, with a maximum throughput of 6,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE036. (Branch #53)

(hh) One (1) pyrolysis cleaning furnace, identified as OVE042, approved in 2018 for construction, with a maximum throughput of 4,000 pounds of equipment and 30 pounds of combustible material per 8-hour cycle, with a maximum heat input capacity of 0.39 MMBtu/hr, using a natural gas afterburner for control, and exhausting through stack SE042. (Branch #53)

Insignificant Activities:

(ee) Welding and Flame Cutting Operations:

(v) One (1) Tungsten Inert Gas (TIG)(carbon steel) welder, identified as WEL200, approved in 2018 for construction, with a maximum electrode consumption of 0.3 lbs/hr, exhausting indoors. (Branch #1)

.....

(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 2-7-5(1)]

D.2.1 PSD Minor Limitations - Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx) and Carbon Monoxide (CO) [326 IAC 2-2]

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

.....

(e) VOC and CO emissions from the furnaces shall not exceed the following:

Unit ID	VOC (lb/hr)	CO (lb/hr)
OVE001	**0.0174**	**0.05**
OVE002	**0.0174**	**0.05**
OVE003	**0.0174**	**0.05**
OVE004	**0.0174**	**0.05**
OVE013	**0.0348**	**0.1**
OVE014	**0.0174**	**0.05**
OVE016	**0.0348**	**0.1**
OVE029	**0.0348**	**0.1**
OVE036	**0.0348**	**0.1**
OVE042	**0.0174**	**0.05**

D.2.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2-2 (Incinerators), the Permittee shall comply with the following for the pyrolysis cleaning ovens (OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE016, ~~and~~ OVE029**, OVE036, and OVE042**):

.....

D.2.3 Particulate [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the ~~eight (8)~~ **ten (10)** controlled pyrolysis cleaning furnaces (OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE016, ~~and~~ OVE029**, OVE036, and OVE042**), the natural gas-fired reciprocating internal combustion engines fired at test cells ACO009 through ACO010, CGN003 through CGN008, CGN011, DYN033, DYN0071, and DYN028, the #2 diesel fuel-fired reciprocating internal combustion engines fired at test cells DYNO002, DYNO004, DYN056, DYN057, GTS001 through GTS005, GTS007, and GTS011, the welding and flame cutting operations (WEL002, WEL073, WEL037, WEL118, ~~and~~ WEL083**, and WEL200**) and the five (5) propane-fired ovens/kilns (OVE009, OVE018, OVE022, OVE031, and OVE033) shall each not exceed 0.03 grains per dry standard cubic foot.

Compliance Determination Requirements

D.2.5 Particulate Matter

In order to comply with Condition D.2.3 the afterburners for particulate control shall be in operation and control emissions from the controlled pyrolysis cleaning furnaces (OVE001, OVE002, OVE003, OVE004, OVE013, OVE0014, OVE016, and OVE029**, OVE036, and OVE042**), at all times the controlled pyrolysis cleaning furnaces are in operation, and the baghouse, identified as DUC091, shall be in operation at all times the welding station, WEL083, is in operation.

D.2.6 VOC and CO

In order to comply with Condition D.2.1 and D.2.2, the natural gas-fired after burner control shall be in operation and control emissions from furnaces OVE001, OVE002, OVE003, OVE004, OVE013, OVE014, OVE016, OVE029, OVE036, and OVE042), at all times

the furnaces are in operation.

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

D.2.~~6~~**7** Record Keeping Requirements

(a) To document the compliance status with Condition D.2.1, the Permittee shall maintain records of the monthly natural gas, #2 diesel fuel and gasoline usage by all reciprocating internal combustion engines and controlled pyrolysis cleaning furnaces at the source.

(b) To document compliance with Condition D.2.6, the Permittee shall maintain records of the 8-hour shift combustion chamber temperature of the pyrolysis cleaning furnaces.

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

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SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

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Insignificant Activities:

(ii) One (1) steel shot abrasive blaster, identified as BLA152, approved in 2018 for construction, with a maximum capacity of 800 lb/hr of blast media, using air wash (integral) and baghouse DUC063 as control, and exhausting indoors. (Branch #53)

(jj) One (1) plastic bead abrasive blaster, identified as BLA154, approved in 2018 for construction, with a maximum capacity of 108 lb/hr of blast media, using cyclone (integral) and baghouse DUC081 as control, and exhausting indoors. (Branch #1)

Summary Table	
Baghouse/ Dust collector ID	**Emissions unit**
DUC029	BLA020
DUC063	BLA119, BLA108, BLA113, BLA114**, BL152**
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066**, BL154**
DUC082	BLA073, BLA078, BLA079, BLA089, BLA033, BLA046, BLA098, BLA099, BLA019, BLA068, BLA080
DUC083	BLA057, BLA074, BLA075, BLA031, BLA032, BLA034, BLA042, BLA008, BLA061, BLA105, BLA115, BLA116, BLA097, BLA094, BLA115, BLA116
DUC084	BLA007, BLA037, BLA045, BLA065, BLA069, BLA041, BLA064
DUC091	BLA083
DUC092	BLA061
DUC093	BLA091
DUC094	buffing, grinding
DUC096	buffing, grinding

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

D.3.1 PSD Minor Particulate Limitations [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable for PM, PM10, and PM2.5, the Permittee shall comply with the following:

Baghouse ID	Emission Unit IDs	PM Limit (lb/hr)	PM10 Limit (lb/hr)	PM2.5 Limit (lb/hr)
DUC029	BLA020	0.72	0.72	0.72
DUC063	BLA119, BLA108, BLA113, BLA114**, BL152**	2.36	2.05	2.05
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066**, BL154**	8.06	7.03	7.03
.....				

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D.3.5 Particulate Control

(a) In order to comply with Conditions D.3.1 and D.3.2 the baghouses for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below:

Baghouse ID	Emission Unit IDs
DUC029	BLA020
DUC063	BLA119, BLA108, BLA113, BLA114**, BL152**
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA066**,BL154**
.....	

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Part 70 Quarterly Report

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QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month **(tons)**	Previous 11 Months **(tons)**	12 Month Total **(tons)**
Month 1 - Single HAP			
Month 1 - Total HAP			
Month 2 - Single HAP			
Month 2 - Total HAP			
Month 3 - Single HAP			
Month 3 - Total HAP			

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Part 70 Quarterly Report

.....

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month **(tons)**	Previous 11 Months **(tons)**	12 Month Total **(tons)**
Month 1			
Month 2			
Month 3			

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 27, 2018. Additional information was received on September 24, 2018.

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 037-40381-00089. The operation of this proposed modification shall be subject to the conditions of the attached Significant Permit Modification.

The staff recommends to the Commissioner that the Part 70 Significant Source Modification and Significant Permit Modification be approved.

IDEM Contact

(a) If you have any questions regarding this permit, please contact Brian Wright, 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) 234-6544 or (800) 451-6027, and ask for Brian Wright or (317) 233-9327.

(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
Emissions Summary

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Uncontrolled Potential to Emit (Before Integral Controls)

Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Highest Single HAP (Manganese)	Total HAPs
Surface Coating	45.96	45.96	45.96	-	-	56.90	-	-	15.96
Aerosol Spray	0.44	0.44	0.44	-	-	6.31	-	-	2.08
Cleaning Final Wash	-	-	-	-	-	3.42	-	-	0.51
Degreasing	-	-	-	-	-	91.40	-	-	-
Degreasing II	-	-	-	-	-	0.01	-	-	-
Internal Combustion Engines	25.51	22.05	21.90	60.61	703.41	210.54	192.98	5.71E-05	2.01
Propane Combustion	0.01	0.03	0.03	0.07	0.62	0.05	0.36	-	-
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.37	0.13	1.99	2.86E-06	0.04
Natural Gas Combustion II	0.01	0.04	0.04	0.00	0.52	0.03	0.43	1.96E-06	0.01
Emergency Generator	0.12	0.12	0.12	0.12	1.76	0.14	0.38	--	1.54E-03
Furnaces	82.26	82.26	82.26	0.11	2.73	106.70	306.60	-	-
Blasting	405.25	366.99	366.99	-	-	-	-	-	-
Welding	3.82	3.82	3.82	-	-	-	-	8.32	8.37
Woodworking	0.11	0.11	0.11	-	-	-	-	-	-
Total	**563.53**	**522.01**	**521.85**	**60.92**	**711.41**	**475.61**	**502.75**	**8.32**	**28.99**

Limited Potential to Emit (After Integral Control)

Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Highest Single HAP (manganese)	Total HAPs
Surface Coating	45.96	45.96	45.96	-	-	56.90	-	-	12.33
Aerosol Spray	0.44	0.44	0.44	-	-	6.31	-	-	2.08
Cleaning Final Wash	-	-	-	-	-	3.42	-	-	0.51
Degreasing	-	-	-	-	-	91.40	-	-	-
Degreasing II	-	-	-	-	-	0.01	-	-	-
Internal Combustion Engines**	1.54	2.01	2.01	1.48	186.37	8.03	28.00	5.71E-05	1.54
Propane Combustion	0.01	0.03	0.03	0.07	0.62	0.05	0.36	-	-
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.37	0.13	1.99	2.86E-06	0.04
Natural Gas Combustion II	0.01	0.04	0.04	0.00	0.52	0.03	0.43	1.96E-06	0.01
Emergency Generator	0.12	0.12	0.12	0.12	1.76	0.14	0.38	-	1.54E-03
Furnaces*	82.26	82.26	82.26	0.11	2.73	1.07	3.10	-	-
Blasting	31.33	29.42	29.42	-	-	-	-	-	-
Welding	3.82	3.82	3.82	-	-	-	-	8.32	8.37
Woodworking	1.12E-03	1.12E-03	1.12E-03	-	-	-	-	-	-
Total	**165.54**	**164.28**	**164.28**	**1.80**	**194.37**	**167.48**	**34.27**	**8.32**	**24.90**

**The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline and (2) 38,000 gal/yr of diesel fuel.
Shaded cells indicate where a limit is included
The VOC and CO emissions from furnaces based on limited lb/hr (in permit) x 8760/2000

Appendix A: Emissions Calculations
HAPs Summary - Limited

Company Nam Jasper Engine Exchange, Inc.
Source Addres 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Mo 037-40381-00089
Reviewer: Kelsey Bonhivert

	Surface Coating	Aerosol Spray	Cleaning Final Wash	Degreasing	Degreasing II	Internal Combustion Engines	Propane Combustion	Natural Gas Combustion	Natural Gas Combustion II	Emergency Generator	Furnaces	Blasting	Welding	Woodworking		
Organics															**Total**	
Acetaldehyde	--	--	--	--	--	0.11	--	--	--	3.05E-04	--	--	--	--	**0.11**	
Acrolein	--	--	--	--	--	0.10	--	--	--	3.67E-05	--	--	--	--	**0.10**	
Benzene	--	--	--	--	--	0.06	--	4.72E-05	1.08E-05	3.71E-04	--	--	--	--	**0.06**	
1,3-Butadiene	--	--	--	--	--	0.03	--	--	--	1.55E-05	--	--	--	--	**0.03**	
Dichlorobenzene	--	--	--	--	--	1.80E-04	--	2.70E-05	6.18E-06	--	--	--	--	--	**2.13E-04**	
Ethylbenzene	1	0.05	--	--	--	--	--	--	--	--	--	--	--	--	**1.05**	
Formaldehyde	--	--	--	--	--	0.81	--	1.69E-03	3.86E-04	4.69E-04	--	--	--	--	**0.82**	
Glycol Ethers	1	0.04	0.49	--	--	--	--	--	--	--	--	--	--	--	**1.53**	
Hexane	--	0.09	--	--	--	0.27	--	0.04	9.28E-03	--	--	--	--	--	**0.41**	
Methanol	--	--	--	--	--	0.12	--	--	--	--	--	--	--	--	**0.12**	
Methylene Chloride	1	0.11	0.02	--	--	--	--	--	--	--	--	--	--	--	**1.13**	
MIBK	--	0.17	--	--	--	--	--	--	--	--	--	--	--	--	**0.17**	
Total PAH	--	--	--	--	--	--	--	--	--	6.67E-05	--	--	--	--	**6.67E-05**	
Toluene	1	0.56	--	--	--	0.02	--	7.64E-05	1.75E-05	1.62E-04	--	--	--	--	**1.59**	
Trichloroethylene	--	0.35	--	--	--	--	--	--	--	--	--	--	--	--	**0.35**	
Xylene	1	0.70	--	--	--	0.01	--	--	--	1.13E-04	--	--	--	--	**1.71**	
Metals																
Arsenic	--	--	--	--	--	3.01E-05	--	--	--	--	--	--	--	--	**3.01E-05**	
Cadmium	--	--	--	--	--	1.65E-04	--	8.29E-06	5.67E-06	--	--	--	--	--	**1.79E-04**	
Chromium	--	--	--	--	--	2.10E-04	--	1.05E-05	7.21E-06	--	--	--	0.04	--	**0.04**	
Cobalt	1	--	--	--	--	1.26E-05	--	--	--	--	--	--	--	--	**1.00**	
Lead	--	5.65E-03	--	--	--	5.71E-05	--	1.12E-05	2.58E-06	--	--	--	--	--	**0.01**	
Manganese	--	--	--	--	--	5.71E-05	--	2.86E-06	1.96E-06	--	--	--	8.32	--	**8.32**	Highest Single HAP
Mercury	--	--	--	--	--	3.91E-05	--	--	--	--	--	--	--	--	**3.91E-05**	
Nickel	--	--	--	--	--	3.16E-04	--	1.58E-05	1.08E-05	--	--	--	0.02	--	**0.02**	
	12.33															

Shaded cells indicate where a limit is included

Appendix A: Emissions Calculations
40381 Modification Summary

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Modified Emission Unit	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Highest Single HAP (Manganese)	Total HAPs
Aerosol Spray - Olive Drab Green	3.38E-04	3.38E-04	3.38E-04	--	--	0.003	--	--	1.72E-03
Natural Gas Combustion - OVE036	0.006	0.024	0.024	0.002	0.315	0.017	0.265	1.20E-06	5.95E-03
Furnaces - OVE036	11.826	11.826	11.826	0.016	0.237	15.242	43.800	--	--
Natural Gas Combustion - OVE042	0.003	0.013	0.013	0.001	0.171	0.009	0.143	6.49E-07	3.22E-03
Furnaces - OVE042	5.825	5.825	5.825	1.187	0.008	7.621	21.900	--	--
Blasting - BLA152, BLA154	0.94	0.84	0.84	--	--	--	--	--	--
Welding - WEL200	0.007	0.007	0.007	--	--	--	--	6.57E-04	
Woodoworking	5.37E-04	5.37E-04	5.37E-04	--	--	--	--	--	--
Total for Modification	**18.61**	**18.54**	**18.54**	**1.21**	**0.73**	**22.89**	**66.11**	**0.00**	**0.01**
Significant Source Thresholds	>25	>25	>25	>25	>25	>25	>100	>10	>25
Minor Source Modification Tresholds	<25	<25	<25	<25	<25	<25	<100	<10	<25

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

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Potential Emissions (uncontrolled):

Material (as applied)	Process	Density (Lb/Gal)	Weight % Volatile (H20& Organics)	Weight % Water & Exempt Solvents	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Maximum (gal/day)	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
Engine Paint Booth																		
F77AC503 Gray	Spray Coating	8.87	61.10%	52.10%	9.00%	55.50%	34.00%	0.040	30.00	28.80	1.8	0.80	0.96	22.99	4.20	9.07	4.70	50.00%
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.040	30.00	28.80	2.0	0.89	1.07	25.67	4.68	8.13	5.34	50.00%
L-1770	Engine Cleaning	11.29	99.00%	99.00%	0.00%	0.00%	1.00%	0.060	30.00	42.97	0.0	0.00	0.00	0.00	0.00	0.44	0.00	50.00%
								Worst Case Usage (gal/day)		**71.77**		**Worst Case PTE**	**1.07**	**25.67**	**4.68**	**9.51**		
Stern Drive Paint Booth																		
Yellow Primer	Spray Coating	9.03	57.51%	0.00%	57.51%	0.00%	25.95%	0.040	3.00	2.88	5.2	5.19	0.62	14.96	2.73	1.01	40.02	50.00%
Gray Primer	Spray Coating	10.16	50.95%	0.00%	50.95%	0.00%	27.51%	0.040	3.00	2.88	5.2	5.18	0.62	14.91	2.72	1.31	37.63	50.00%
Black Enamel	Spray Coating	7.82	58.38%	0.00%	58.38%	0.00%	35.97%	0.040	3.00	2.88	4.6	4.57	0.55	13.15	2.40	0.86	25.38	50.00%
Dark Grey	Spray Coating	7.85	59.77%	0.00%	59.77%	0.00%	34.33%	0.040	3.00	2.88	4.7	4.69	0.56	13.51	2.47	0.83	27.33	50.00%
Oyster White	Spray Coating	9.40	48.57%	0.00%	48.57%	0.00%	36.12%	0.040	3.00	2.88	4.6	4.57	0.55	13.15	2.40	1.27	25.28	50.00%
								Worst Case Usage (gal/day)		**2.88**		**Worst Case PTE**	**0.62**	**14.96**	**2.73**	**1.31**		
Radiators Paint Booth																		
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.100	10.00	24.00	2.0	0.89	0.89	21.39	3.90	6.78	5.34	50.00%
Diesel Engine Paint Booth																		
P1043 Tan	Spray Coating	8.49	55.16%	0.00%	55.16%	0.00%	26.80%	0.500	3.00	36.00	4.7	4.68	7.02	168.59	30.77	12.51	34.95	50.00%
P1350 Blue	Spray Coating	7.74	61.52%	0.00%	61.52%	0.00%	25.84%	0.500	3.00	36.00	4.8	4.76	7.14	171.42	31.28	9.78	36.85	50.00%
P1352 LT. Green	Spray Coating	7.60	63.07%	0.00%	63.07%	0.00%	25.04%	0.500	3.00	36.00	4.8	4.79	7.19	172.56	31.49	9.22	38.29	50.00%
P1398 Red	Spray Coating	7.76	61.67%	0.00%	61.67%	0.00%	27.20%	0.500	3.00	36.00	4.8	4.79	7.18	172.28	31.44	9.77	35.19	50.00%
G74YC165 Cat Yellow	Spray Coating	8.08	57.10%	0.00%	57.10%	0.00%	42.90%	0.500	3.00	36.00	4.6	4.61	6.92	166.09	30.31	11.39	21.51	50.00%
F77AC503 Gray	Spray Coating	8.87	61.10%	52.10%	9.00%	55.50%	34.00%	0.500	3.00	36.00	1.8	0.80	1.20	28.74	5.24	11.33	4.70	50.00%
P1436 Green	Spray Coating	7.80	61.72%	0.00%	61.72%	0.00%	24.96%	0.500	3.00	36.00	4.8	4.81	7.22	173.31	31.63	9.81	38.58	50.00%
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.500	3.00	36.00	2.0	0.89	1.34	32.09	5.86	10.16	5.34	50.00%
								Worst Case Usage (gal/day)		**36.00**		**Worst Case PTE**	**7.22**	**173.31**	**31.63**	**12.51**		
Transmission, Converter, Axle Housing, Differential Paint Booth																		
F77AC503 Gray	Spray Coating	8.87	61.10%	52.10%	9.00%	55.50%	34.00%	0.040	2.00	1.92	1.8	0.80	0.06	1.53	0.28	0.60	4.70	50.00%
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.040	2.00	1.92	2.0	0.89	0.07	1.71	0.31	0.54	5.34	50.00%
								Worst Case Usage (gal/day)		**1.92**		**Worst Case PTE**	**0.07**	**1.71**	**0.31**	**0.60**		
PTB007																		
F77AC503 Gray	Spray Coating	8.86	61.40%	52.50%	8.90%	55.80%	33.80%	0.010	30.00	7.20	1.8	0.79	0.24	5.68	1.04	2.25	4.67	50.00%
PTB012																		
F77B551 Black	Spray Coating	8.57	63.90%	53.50%	10.40%	55.00%	33.40%	0.400	4.00	38.40	2.0	0.89	1.43	34.23	6.25	10.84	5.34	50.00%
Thinner for Cleaning																		
T260 Thinner	Cleaning	6.54	100.00%	0.00%	100.00%	0.00%	0.00%	0.20	Gal/hr		6.5	6.54	1.31	31.39	5.73	0.00		100.00%
Total Uncontrolled Potential Emissions:													**12.85**	**308.33**	**56.27**	**43.79**		

Potential Emissions (controlled):

	Control Efficiency: VOC	Control Efficiency: PM	Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr
Total Controlled Potential Emissions:	0.00%	85.00%	**12.85**	**308.33**	**56.27**	**6.57**

Methodology:
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
Coating usages are mutually exclusive for each coating booth. Therefore, Total = Worst Coating + Sum of all solvents used
Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)

PTB018

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	Controlled Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
KEM AQUA Gloss Enamel, Black*	8.57	0.64	53.50%	10.40%	55.10%	33.40%	0.04	4.00000	2	1	0.1	3.42	0.62	2.17	0.76	2.67	0.65
											0.1	**3.42**	**0.62**	**2.17**	**0.76**		

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

*According to the MSDS provided by the source, this chemical contains no HAPs.

	VOC lbs per hour	VOC lbs per day	VOC tons per year	PM tons/yr
Total Uncontrolled	**13.0**	**311.75**	**56.90**	**45.96**
Total Controlled	n/a	n/a	n/a	**7.33**

Appendix A: Emission Calculations
HAP Emissions From Surface Coating Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Material	Density (Lb/Gal)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Cobalt	Weight % Methylene Chloride	Weight % Ethylene Glycol	Weight % Glycol Ethers	Weight % Ethylbenzene	Xylene (ton/yr)	Toluene (ton/yr)	Cobalt (ton/yr)	Methylene Chloride (ton/yr)	Ethylene Glycol (ton/yr)	Glycol Ethers (ton/yr)	Ethylbenzene (ton/yr)	**Total**
Engine Paint Booth																		
F77AC503 Gray	8.87	0.040	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00
F77B551 Black	8.57	0.040	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L-1770	11.29	0.060	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stern Drive Paint Booth																		
Yellow Primer	9.03	0.040	3.00	5.18%	8.97%	0.00%	0.00%	0.00%	0.00%	0.00%	0.25	0.43	0.00	0.00	0.00	0.00	0.00	0.67
Gray Primer	10.16	0.040	3.00	10.39%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.55	0.27	0.00	0.00	0.00	0.00	0.00	0.82
Black Enamel	7.82	0.040	3.00	31.57%	1.64%	0.00%	0.00%	0.00%	0.00%	0.00%	1.30	0.07	0.00	0.00	0.00	0.00	0.00	1.37
Dark Grey	7.85	0.040	3.00	34.54%	10.44%	0.00%	0.00%	0.00%	0.00%	0.00%	1.42	0.43	0.00	0.00	0.00	0.00	0.00	1.86
Oyster White	9.40	0.040	3.00	28.15%	7.75%	0.00%	0.00%	0.00%	0.00%	0.00%	1.39	0.38	0.00	0.00	0.00	0.00	0.00	1.77
Radiators Paint Booth																		
F77B551 Black	8.57	0.100	10.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diesel Engine Paint Booth																		
P1043 Tan	7.49	0.500	3.00	0.00%	7.49%	0.00%	0.00%	0.47%	0.00%	0.00%	0.00	3.69	0.00	0.00	0.23	0.00	0.00	3.92
P1350 Blue	7.74	0.500	3.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00%	0.00	4.68	0.00	0.00	0.24	0.00	0.00	4.92
P1352 Lt Green	7.60	0.500	3.00	0.00%	8.88%	0.08%	0.08%	0.47%	0.00%	0.00%	0.00	4.44	0.04	0.04	0.23	0.00	0.00	4.75
P1398 Red	7.76	0.500	3.00	0.00%	17.59%	0.08%	0.08%	0.47%	0.00%	0.00%	0.00	8.97	0.04	0.04	0.24	0.00	0.00	9.29
G74YC165 Cat Yellow	8.08	0.500	3.00	1.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.20%	0.53	3.19	0.00	0.00	0.00	0.00	0.11	3.72
F77AC503 Gray	8.87	0.500	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00
P 1436 LF Green	7.80	0.500	3.00	0.00%	9.20%	0.00%	0.00%	0.47%	0.00%	0.00%	0.00	4.71	0.00	0.00	0.24	0.00	0.00	4.95
F77B551 Black	8.57	0.500	3.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission, Converter, Axle Housing, Differential Paint Booth																		
F77AC503 Gray	8.87	0.040	2.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
F77B551 Black	8.57	0.040	2.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PTB007																		
F77AC503 Gray	8.87	0.010	30.00	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
PTB012																		
F77B551 Black	8.57	0.400	4.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thinner for Cleaning																		
T260 Thinner	6.54	0.200	Gal/hr	0.00%	37.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	2.12	0.00	0.00	0.00	0.00	0.00	2.12
Total Potential Emissions											**1.96**	**11.52**	**0.04**	**0.04**	**0.24**	**2.16**	**0.11**	**15.96**

METHODOLOGY
(a) Material usages in each paint booth are mutually exclusive.
(b) HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Emission Calculations
VOC and Particulate
From Aerosol Spray Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Potential Emissions (uncontrolled)

Material (as applied)	Type	Net Weight per Can (lb/can)	Weight % VOC	Weight % Solid	Maximum Usage (cans/yr)	Potential VOC Emissions		Potential PM Emissions		Transfer Efficiency
						(lb/yr)	(ton/yr)	(lb/yr)	(ton/yr)	
3M 90	Adhesive	1.031	74.00%	11.00%	622	475	0.24	28.24	0.01	60.00%
3M Super 77	Adhesive	1.031	75.00%	25.00%	1881	1455	0.73	193.95	0.10	60.00%
711	Penetrating Oil	0.688	76.80%	23.20%	1214	641	0.32	77.46	0.04	60.00%
744	Penetrant Dye	0.563	98.70%	1.30%	396	220	0.11	1.16	0.00	60.00%
745	Developer	0.563	30.00%	8.00%	492	83	0.04	8.85	0.00	60.00%
BBQ Black 150	Paint	0.688	62.50%	15.00%	35	15	0.01	1.43	0.00	60.00%
Cast Blast	Paint	0.750	79.00%	15.00%	632	374	0.19	28.44	0.01	60.00%
Crest	Leak Trace	1.000	95.00%	5.00%	350	332	0.17	6.99	0.00	60.00%
Crown 6090N PR.Blue	Blue Marking Fluid	0.313	42.80%	4.00%	10	1	0.00	0.05	0.00	60.00%
DGF K5200K	Graphite Spray	0.563	98.60%	11.00%	3154	1749	0.87	78.07	0.04	60.00%
Dykem Steel Blue	Layout Fluid	1.000	94.40%	5.70%	12	11	0.01	0.26	0.00	60.00%
Engine Enamel C 1	Paint Column 1	0.688	48.00%	17.00%	6301	2079	1.04	294.57	0.15	60.00%
Engine Enamel C 2	Paint Column 2	0.688	50.00%	15.00%	548	188	0.09	22.58	0.01	60.00%
Engine Enamel C 3	Paint Column 3	0.688	60.50%	15.00%	1247	519	0.26	51.43	0.03	60.00%
LAS 16	Welding Anti Spat	0.750	4.50%	4.50%	323	11	0.01	4.36	0.00	60.00%
Locquic Primer T	Loctite Primer	0.375	4.10%	5.00%	119	2	0.00	0.89	0.00	60.00%
LPS 2	Penetrating Oil	0.688	70.00%	0.00%	3485	1677	0.84	0.00	0.00	60.00%
MF-10RI	Paint, Red Insulator	0.938	57.00%	18.00%	576	308	0.15	38.90	0.02	60.00%
MF-11 CC	Contact Cleaner	1.000	3.70%	0.00%	515	19	0.01	0.00	0.00	60.00%
Muscle AC-C	Carburetor Cleaner	0.953	90.00%	0.00%	2463	2113	1.06	0.00	0.00	60.00%
OMC Charcoal	Paint	1.000	56.00%	12.10%	12	6	0.00	0.56	0.00	60.00%
Pioneer Copper	Gasket Cement 4000	0.563	48.00%	17.00%	296	80	0.04	11.32	0.01	60.00%
Super Enamel Red Oxide Primer	Paint T-19	0.688	76.00%	15.00%	254	132	0.07	10.46	0.01	60.00%
Tractor Colors	Paint	0.688	50.00%	15.00%	346	119	0.06	14.26	0.01	60.00%
Olive Drab Green Semi Gloss	Paint	0.750	53.00%	15.00%	15	6	0.00	0.68	0.00	60.00%
Total Potential Emissions:						**12616**	**6.31**	**875**	**0.44**	

Methodology:

Potential VOC Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * VOC wt. % = lb VOC/yr * (1/2000) ton/lb = ton VOC / yr

Potential PM Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * PM wt. % * (1 - transfer %)= lb PM/yr * (1/2000) ton/lb = ton PM / yr

Appendix A: Emisions Calculations
HAPs from Aerosol Spray Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Material (as applied)	Type	Net Weight per Can (lb/can)	Maximum Usage (cans/yr)	Trichloroethyle Weight %	MIBK Weight %	Lead Weight %	Methylene Chloride Weight %	Toluene Weight %	1,1,1 Trichloroethylene Weight %	Xylene Weight %	Ethyl Benzene Weight %	Hexane Weight %	Glycol Ethers Weght %	Total
3M 90	Adhesive	1.031	622	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3M Super 77	Adhesive	1.031	1881	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	
711	Penetrating Oil	0.688	1214	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	
744	Penetrant Dye	0.563	396	0.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.00%	15.00%	
745	Developer	0.563	492	0.00%	0.00%	0.00%	0.00%	0.00%	62.00%	0.00%	0.00%	0.00%	0.00%	
BBQ Black 150	Paint	0.688	35	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	3.00%	0.00%	0.00%	0.00%	
Cast Blast	Paint	0.750	632	0.00%	0.00%	0.00%	0.00%	43.20%	0.00%	6.33%	1.58%	0.00%	0.00%	
Crest	Leak Trace	1.000	350	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	39.00%	0.00%	
Crown 6090N PR.Blue	Blue Marking Fluid	0.313	10	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
DGF K5200K	Graphite Spray	0.563	3154	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Dykem Steel Blue	Layout Fluid	1.000	12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Engine Enamel C 1	Paint Column 1	0.688	6301	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	
Engine Enamel C 2	Paint Column 2	0.688	548	0.00%	5.00%	3.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	
Engine Enamel C 3	Paint Column 3	0.688	1247	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.00%	0.00%	0.00%	0.00%	
LAS 16	Welding Anti Spat	0.750	323	0.00%	0.00%	0.00%	84.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Locquic Primer T	Loctite Primer	0.375	119	0.00%	0.00%	0.00%	0.00%	0.00%	90.00%	0.00%	0.00%	0.00%	0.00%	
LPS 2	Penetrating Oil	0.688	3485	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
MF-10RI	Paint, Red Insulator	0.938	576	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%	20.00%	0.00%	0.00%	0.00%	
MF-11 CC	Contact Cleaner	1.000	515	0.00%	0.00%	0.00%	0.00%	0.00%	95.00%	0.00%	0.00%	0.00%	0.00%	
Muscle AC-C	Carburetor Cleaner	0.953	2463	0.00%	4.00%	0.00%	0.00%	37.00%	0.00%	16.00%	4.00%	0.00%	0.00%	
OMC Charcoal	Paint	1.000	12	0.00%	0.00%	0.00%	19.27%	23.62%	0.00%	0.38%	0.00%	0.00%	1.23%	
Pioneer Copper	Gasket Cement 4000	0.563	296	0.00%	0.00%	0.00%	12.00%	1.00%	0.00%	0.00%	0.00%	2.00%	0.00%	
Super Enamel Red Oxide Primer	Paint T-19	0.688	254	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	
Tractor Colors	Paint	0.688	346	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	
Olive Drab Green Semi Gloss	Paint	0.750	15	0.00%	0.00%	0.00%	0.00%	13.77%	0.00%	13.66%	2.43%	0.00%	0.00%	

Material (as applied)	Type	Net Weight per Can (lb/can)	Maximum Usage (cans/yr)	Trichloroethyle tons/yr	MIBK tons/yr	Lead tons/yr	Methylene Chloride tons/yr	Toluene tons/yr	1,1,1 Trichloroethylene tons/yr	Xylene tons/yr	Ethyl Benzene tons/yr	Hexane tons/yr	Glycol Ethers tons/yr	**Total** (tons/yr)
3M 90				0	0	0	0	0	0	0	0	0	0	**0**
3M Super 77				0	0	0	0	0	0	0	0	0.02	0	**0.02**
711				0	0	0	0	0	0	0	0	0	0.02	**0.02**
744				0	0	0	0	7.8E-03	0	0	0	0	1.7E-02	**0.02**
745				0	0	0	0	0	0.09	0	0	0	0	**0.09**
BBQ Black 150				0	0	0	0	1.2E-03	0	3.6E-04	0	0	0	**1.5E-03**
Cast Blast				0	0	0	0	0.10	0	0.02	3.7E-03	0	0	**0.12**
Crest				0	0	0	0	0	0	0	0	0.07	0	**0.07**
Crown 6090N PR.Blue				1.1E-03	0	0	0	0	0	0	0	0	0	**1.1E-03**
DGF K5200K				0	0	0	0	0	0	0	0	0	0	**0**
Dykem Steel Blue				0	0	0	0	0	0	0	0	0	0	**0**
Engine Enamel C 1				0	0.11	0	0	0	0	0.22	0	0	0	**0.32**
Engine Enamel C 2				0	9.4E-03	5.6E-03	0	0	0	0.02	0	0	0	**0.03**
Engine Enamel C 3				0	0	0	0	0	0	0.16	0	0	0	**0.16**
LAS 16				0	0	0	0.10	0	0	0	0	0	0	**0.10**
Locquic Primer T				0	0	0	0	0	0.02	0	0	0	0	**0.02**
LPS 2				0	0	0	0	0	0	0	0	0	0	**0**
MF-10RI				0	0	0	0	0.01	0	0.05	0	0	0	**0.07**
MF-11 CC				0	0	0	0	0	0.24	0	0	0	0	**0.24**
Muscle AC-C				0	0.05	0	0	0.43	0	0.19	0.05	0	0	**0.72**
OMC Charcoal				0	0	0	1.1E-03	1.4E-03	0	2.2E-05	0	0	7.1E-05	**2.6E-03**
Pioneer Copper				0	0	0	0.01	8.3E-04	0	0	0	1.7E-03	0	**0.01**
Super Enamel Red Oxide Primer				0	0	0	0	0	0	0.03	0	0	0	**0.03**
Tractor Colors				0	5.94E-03	0	0	0	0	0.01	0	0	0	**0.02**
Olive Drab Green Semi Gloss				0	0	0	0	7.94E-04	0	7.87E-04	1.40E-04	0	0	**1.72E-03**
Total Potential Emissions:				**1.1E-03**	**0.17**	**5.6E-03**	**0.11**	**0.56**	**0.35**	**0.70**	**0.05**	**0.09**	**0.04**	**2.08**

Methodology:
Potential VOC Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * VOC wt. % = lb VOC/yr * (1/2000) ton/lb = ton VOC / yr
Potential PM Emissions = Pounds per Aerosol Can (lb/can) * Maximum Usage (cans/yr) * PM wt. % * (1 - transfer %)= lb PM/yr * (1/2000) ton/lb = ton PM / yr

Appendix A: Emission Calculations
VOC Emissions
From Misc. Cleaning & Final Wash Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

There are miscellaneous non-aerosol cleaning, machining and GP NR final wash operations throughout the plant. Emissions from these operations are summarized as follows:

I. Non-aerosol Cleaning and Maching Operations:

Based on the plant's usage records for operating 19 hr/day and 247 days/yr, the potential VOC emissions from non-aerosol cleaning and maching operations are:

Potential VOC emissions = 3173 lb actual usage/yr / (19 * 247 hr/yr) * 8760 hr/yr * (1/2000) ton/lb
= 2.96 ton/yr or = 16.23 lb/day

MSDS of materials used for cleaning and machining indicate that following HAPs were used:

Glycol Ethers

Actual	288 lb/yr	
Potential	288 lb/yr / (19 * 247 hr/yr) * 8760 hr/yr * (1/2000) lb/ton =	0.27 ton/yr

Methylene Chloride

Actual	22.5 lb/yr	
Potential	22.5 lb/yr / (19 * 247 hr/yr) * 8760 hr/yr * (1/2000) lb/ton =	0.02 ton/yr

II. GP NR Final Wash Usages:

6660 gallons of GP NR Final Wash were consumed for 16.25 hr/day and 247 day/yr. The material contains 5.8% VOC per gallon and 3% HAP (glycol ether) per gallon.

Potential VOC emissions = (1.08 lb/gal * 5.8 %) * (6660 gal/yr / (16.25 hr/day * 247 day/yr)) * 8760 hr/yr * 1/2000 lb/ton
= 0.46 ton/yr or = 2.49 lb/day

Potential HAP (glycol ether) emissions = (1.08 lb/gal * 3%) * (6660 gal/yr / (16.25 hr/day * 247 day/yr)) * 8760 hr/yr * 1/2000 lb/ton
= 0.22 ton/yr

Appendix A: Emission Calculations
Degreasing

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

State Potential Emissions (uncontrolled):

Material	Process	Date Unit Installed	Density (Lb/Gal)	Weight % Volatile (H20& Organics)	Weight % Water Water	Weight % Organics	Maximum Usage (gal/day)	Potential VOC pounds per day	Potential VOC tons per year
Units in Existence before 10/7/74									
Mineral Sprit	Service Area (D269)	1967	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Gas Hed, Skid, Pan Revomal	1967	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Trans Prep-Sanding Stations	1970	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas & Transmission Warranty (G262)	1970	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Transmission Builders-24 Pans	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Fuel Room (D266)	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Fuel Room (D267)	1970	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Teardown Soak Tank (D261)	1970	6.59	100.00%	0.00%	100.00%	1.5	9.89	1.80
Mineral Sprit	Diesel Wash	1970	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	Diesel Assembly (D263)	1970	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Diesel Dyno	1970	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
	Subtotal								**20.45**
Units in Existence after 10/7/74 and before 1/1/80									
Mineral Sprit	Oil Pump Rinse (G260)	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas Skid Wash	1975	6.59	100.00%	0.00%	100.00%	12.0	79.08	14.43
Mineral Sprit	Diesel Sanding Station	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Tool & Die Soak Tank (T262-CLT069)	1975	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Transmission Case Rinse-Teardown (T261)	1975	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	Transmission Rinse-Valve Body (T262-CLT072	1975	6.59	100.00%	0.00%	100.00%	10.0	65.90	12.03
Mineral Sprit	Transmission Prep Area NW (T265)	1976	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Transmission Prep Area NE (T266)	1976	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
	Subtotal								**39.09**
Units in Existence after 1/1/80 and before 7/1/90									
Mineral Sprit	Transmission Prep Area SW (T267)	1984	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Alum Head Parts Rinse (G265)	1984	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Oil Pump/Timing Cover Rinse (G263)	1984	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	High Performance #1 (G272)	1985	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Aluminum Head Flush (G270)	1985	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Assembly (D268)	1987	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Oil Cooler Flush (D270)	1988	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Diesel Assembly (D265)	1988	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
	Subtotal								**10.22**
Unit in Existence after 7/1/90									
Mineral Sprit	Diesel Assembly-Filter Base (D271)	1992	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Diesel Assembly (D264)	1992	6.59	100.00%	0.00%	100.00%	1.0	6.59	1.20
Mineral Sprit	Cam Rinse (G266)	1992	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Lifter Rinse (T261)	1992	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Torque Converter Rinse Table (T264)	1994	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
Mineral Sprit	Transmission Rinse Table - H.D. (T263)	1994	6.59	100.00%	0.00%	100.00%	5.0	32.95	6.01
Mineral Sprit	High Performance #2 (G273)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	High Performance #3 (G274)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Quality Control (G271)	1994	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Diesel Warranty Disassembly (D262)	1995	6.59	100.00%	0.00%	100.00%	1.5	9.89	1.80
Mineral Sprit	Gas Bold Sorting Area (G264)	1995	6.59	100.00%	0.00%	100.00%	0.5	3.30	0.60
Mineral Sprit	Gas Head (G276)	1996	6.59	100.00%	0.00%	100.00%	0.0	0.00	0.00
Mineral Sprit	Transmission Prep Area SE (T268)	1996	6.59	100.00%	0.00%	100.00%	2.0	13.18	2.41
	Subtotal								**21.65**
Total Potential Emissions:									**91.40**

Methodology:

Potential VOC Tons per Year = Pounds of VOC per Gallon Solvent (lb/gal) * Solvent Usage Rate (gal/day) * (365 day/yr) * (1 ton/2000 lbs)

Appendix A: Emissions Calculations
Degreasing II

Company Name: **Jasper Engine Exchange, Inc.**
Source Address: **815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547**
Significant Source Modification: **037-40381-00089**
Reviewer: **Kelsey Bonhivert**

Emission Unit ID	Emission Unit description	Emission Unit ID	chemical	usage (gallons/yr)	VOC content (lbs/gal)	PTE VOC (tons/yr)
CLT096	differential cleaning tank	CLT096	ET-109	330	0.02	0.0033
ADJ015	AJA Lift	ADJ015	ET-109	110	0.02	0.0011

Emission Unit ID	Emission Unit description	Emission Unit ID	chemical	usage (pounds/yr)	VOC content (lbs/lb)	PTE VOC (tons/yr)
CLT064	spray wash cabinet	CLT064	P-5000	234	0.01	0.00117

Total PTE (tons/yr) **0.00557**

Methodology
According to the MSDS, these compounds contain no HAPs
PTE VOC (tons/yr) = Usage (gallons/yr) * VOC content (lbs/gal) * (1 ton / 2000 lbs)
PTE VOC (tons/yr) = Usage (lbs/yr) * VOC content (lbs/lb) * (1 ton / 2000 lbs)
Usage (in gallons/yr or lbs/yr, where applicable) provided by the source.
VOC content (lbs/gal or lbs/lb, where applicable) according to the MSDS provided by the source.

Appendix A: Emission Calculations
From Fuel Combustion Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Unlimited/Uncontrolled Potential to Emit

Source Type	No. of Equip.	Total Capacity (MMBtu/hr)	Fuel Usage (MMcf/yr) or (kgal/yr)	Fuel Usage Units	Emission Factor Units	Emission Factors (lb/unit) (a)							Potential Emissions (ton/yr)						
						PM	PM10	PM2.5	SO2	NOx	VOC	CO	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Non-Engine Units																			
Nat. Gas Fired Heaters (<0.3 MMBtu/hr) (b)	109	10.37	90.8	(MMcf/yr)	(lb/MMcf)	1.9	7.6	7.6	0.6	100.0	5.5	84.0	0.09	0.35	0.35	0.03	4.54	0.25	3.82
Nat. Gas Fired Heaters (>0.3 & < 10 MMBtu/hr) (c)	24	19.44	170.3	(MMcf/yr)	(lb/MMcf)	1.9	7.6	7.6	0.6	100.0	5.5	84.0	0.16	0.65	0.65	0.05	8.51	0.47	7.15
Nat. Gas Fired Boiler (c)	1	4.50	39.4	(MMcf/yr)	(lb/MMcf)	1.9	7.6	7.6	0.6	100.0	5.5	84.0	0.04	0.15	0.15	0.01	1.97	0.11	1.66
Engines (unlimited)																			
IC Engines - Nat. Gas Fired (e)	17	8.89	77.9	(MMcf/yr)	(lb/MMBtu)	9.91E-03	7.71E-05	7.71E-05	5.88E-04	4.08	1.18E-01	0.32	0.39	0.00	0.00	0.02	158.89	4.60	12.34
IC Engines - Diesel Fuel Fired <= 600 HP (f)	2	7.00	444.3	(kgal/yr)	(lb/MMBtu)	0.31	0.31	0.31	0.29	4.41	0.36	0.95	9.50	9.50	9.50	8.89	135.21	11.04	29.13
IC Engines - Diesel Fuel Fired > 600 HP (f)	2	21.00	1333.0	(kgal/yr)	(lb/MMBtu)	0.10	0.06	0.06	0.51	3.20	0.09	0.85	9.20	5.27	5.11	46.45	294.34	8.28	78.18
IC Engines - Gasoline Fired (g)	2	14.00	1114.9	(kgal/yr)	(lb/MMBtu)	0.10	0.10	0.10	0.084	1.63	3.03	0.99	6.13	6.13	6.13	5.15	99.95	185.80	60.71
												Total Unlimited/Uncontrolled Potential to Emit (tons/year)	**25.51**	**22.05**	**21.90**	**60.61**	**703.41**	**210.54**	**192.98**

Limited Potential to Emit

	Fuel Heat Content
Diesel (MMBtu/kgal)	138.00
Gasoline (MMBtu/kgal)	110

	NOx	CO
Diesel Combustion Limit (lb/kgal)	608.58	131.10
Gasoline Combustion Limit (lb/kgal)	179.30	108.90

Source Type	No. of Equip.	Total Capacity (MMBtu/hr)	Fuel Limit (MMcf/yr) or (kgal/yr)	Fuel Usage Units	Emission Factor Units	Emission Factors (lb/unit) (a)							Limited Emissions (ton/yr)						
						PM	PM10	PM2.5	SO2	NOx	VOC	CO	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Engines (limited)																			
IC Engines - Diesel Fuel Fired <= 600 HP (f)*	2	7.00	38.0	(kgal/yr)	(lb/MMBtu)	0.31	0.31	0.31	0.29	4.41	0.36	0.95	0.81	0.81	0.81	1.32	11.56	0.94	2.49
IC Engines - Diesel Fuel Fired > 600 HP (f)*	2	21.00		(kgal/yr)	(lb/MMBtu)	0.10	0.06	0.06	0.51	3.20	0.09	0.85							
IC Engines - Gasoline Fired (g)	2	14.00	10.0	(kgal/yr)	(lb/MMBtu)	0.10	0.10	0.10	0.08	1.63	3.03	0.99	0.06	0.06	0.06	0.05	0.90	1.67	0.54
												Total Limited Potential to Emit (tons/year)	**1.54**	**2.01**	**2.01**	**1.48**	**186.37**	**8.03**	**28.00**

Methodology:

(a) Unit = MMcf for natural gas; 1000 gallons for waste oil; and MMBtu for IC Engines liquid fuel combustion

(b) Emission Factors from AP-42, Chapter 1.4, No SCC

(c) Emission Factors from AP-42, Chapter 1.4, SCC #1-03-006-03

(d) Emission Factors from AP-42, Chapter 1.11, SCC #1-05-001-14 & #1-05-002-14; using a maximum ash content of 1% and a maximum sulfur content of 0.03%.

(e) Emission Factors from AP-42, Chapter 3.2, SCC #2-02-002-53 (4-Stroke Lean Burn Engines)

(f) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-001-02 & #2-03-001-01

(g) Emission Factors from AP-42, Chapter 3.3, SCC #2-02-003-02 & #2-03-003-01

(h) The source will limit the IC Engine combustions to: (1) 10,000 gal/yr of gasoline; and (2) 38,000 gal/yr of diesel fuel.

These limitations will limit source wide VOC, NOx and CO emissions to less than 250 tons/yr. Therefore, the requirements of PSD, 326 IAC 2-2, do not apply.

*The Limited PTE of the diesel fuel-fired engines is based on the maximum emissions bewteen engines <= 600 HP and engines > 600HP.

Appendix A: Emission Calculations
HAP Emissions from Combustion

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Emission Factors																					
Source Type	Emission Factor Units	Emission Factors (lb/unit) (a)																			
		Benzene	Phenol	Xylene	Toluene	Hexane	Methanol	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein	Dichlorobenzene	Arsenic	Cadmium	Chromium	Cobalt	Lead	Manganese	Mercury	Nickel	Total PAH
Non-Engine Units																					
Nat. Gas Fired Heaters (<0.3 MMBtu/hr)	(lb/MMcf)	2.10E-03	0	0	3.40E-03	1.80E+00	0	7.50E-02	0	0	0	1.20E-03	2.00E-04	1.10E-03	1.40E-03	8.40E-05	5.00E-04	3.80E-04	2.60E-04	2.10E-03	0
Nat. Gas Fired Heaters (>0.3 & < 10 MMBtu/h)	(lb/MMcf)	2.10E-03	0	0	3.40E-03	1.80E+00	0	7.50E-02	0	0	0	1.20E-03	2.00E-04	1.10E-03	1.40E-03	8.40E-05	5.00E-04	3.80E-04	2.60E-04	2.10E-03	0
Nat. Gas Fired Boiler	(lb/MMcf)	2.10E-03	0	0	3.40E-03	1.80E+00	0	7.50E-02	0	0	0	1.20E-03	2.00E-04	1.10E-03	1.40E-03	8.40E-05	5.00E-04	3.80E-04	2.60E-04	2.10E-03	0
Engines																					
IC Engines - Nat. Gas Fired (a)	(lb/MMBtu)	1.58E-03	0	1.95E-04	5.58E-04	0	3.06E-03	2.05E-02	6.63E-04	2.79E-03	2.63E-03	0	0	0	0	0	0	0	0	0	1.41E-04
IC Engines - Diesel Fuel Fired	(lb/MMBtu)	9.33E-04	0	2.85E-04	4.09E-04	0	0	1.18E-03	3.91E-05	7.67E-04	9.25E-05	0	0	0	0	0	0	0	0	0	1.68E-04
IC Engines - Gasoline Fired	(lb/MMBtu)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Potential Emissions (uncontrolled):

Source Type	Total Capacity (MMBtu/hr)	Fuel Usage (MMcf/yr) or (kgal/yr)	Fuel Usage Units		Potential Emissions (Uncontrolled)																			
					Benzene (tons/yr)	Phenol (tons/yr)	Xylene (tons/yr)	Toluene (tons/yr)	Hexane (tons/yr)	Methanol (tons/yr)	Formaldehyde (tons/yr)	1,3-Butadiene (tons/yr)	Acetaldehyde (tons/yr)	Acrolein (tons/yr)	Dichlorobenzene (tons/yr)	Arsenic (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Cobalt (tons/yr)	Lead (tons/yr)	Manganese (tons/yr)	Mercury (tons/yr)	Nickel (tons/yr)	Total PAH (tons/yr)	**Total**
Non-Engine Units																								
Nat. Gas Fired Heaters (<0.3 MMBtu/hr)	10.37	90.8	(MMcf/yr)		9.5E-05	0	0	1.5E-04	0.08	0	3.4E-03	0	0	0	5.5E-05	9.1E-06	5.0E-05	6.4E-05	3.8E-06	2.3E-05	1.7E-05	1.2E-05	9.5E-05	0	0.09
Nat. Gas Fired Heaters (>0.3 & < 10 MMBtu/h)	19.44	170.3	(MMcf/yr)		1.8E-04	0	0	2.9E-04	0.15	0	6.4E-03	0	0	0	1.0E-04	1.7E-05	9.4E-05	1.2E-04	7.2E-06	4.3E-05	3.2E-05	2.2E-05	1.8E-04	0	0.16
Nat. Gas Fired Boiler	4.50	39.4	(MMcf/yr)		4.1E-05	0	0	6.7E-05	0.04	0	1.5E-03	0	0	0	2.4E-05	3.9E-06	2.2E-05	2.8E-05	1.7E-06	9.9E-06	7.5E-06	5.1E-06	4.1E-05	0	0.04
Engines (unlimited)																								
IC Engines - Nat. Gas Fired	8.89	77.9	(MMcf/yr)		0.06	0	0.01	0.02	0	0.12	0.80	0.03	0.11	0.10	0	0	0	0	0	0	0	0	0	5.5E-03	1.25
IC Engines - Diesel Fuel Fired	28.00	1777.4	(kgal/yr)		0.11	0	0.03	0.05	0	0	0.14	4.8E-03	0.09	0.01	0	0	0	0	0	0	0	0	0	0.02	0.48
IC Engines - Gasoline Fired	14.00	1114.9	(kgal/yr)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Potential Emissions (uncontrolled):					**0.18**	**0.0E+00**	**0.04**	**0.07**	**0.27**	**0.12**	**0.95**	**0.03**	**0.20**	**0.11**	**1.8E-04**	**3.0E-05**	**1.7E-04**	**2.1E-04**	**1.3E-05**	**7.5E-05**	**5.7E-05**	**3.9E-05**	**3.2E-04**	**0.03**	**2.01**
Limited Emissions																								
Engines (limited) (b)																								
IC Engines - Diesel Fuel Fired	28.00	38.00	(kgal/yr)		2.4E-03	0	7.5E-04	1.1E-03	0	0	3.1E-03	1.03E-04	2.0E-03	2.4E-04	0	0	0	0	0	0	0	0	0	4.4E-04	0.01
IC Engines - Gasoline Fired	14.00	10.0	(kgal/yr)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Limited Emissions (c)					**0.06**	**0.0E+00**	**0.01**	**2.3E-02**	**0.27**	**1.2E-01**	**0.81**	**2.6E-02**	**0.11**	**1.0E-01**	**0.00**	**3.0E-05**	**0.00**	**2.1E-04**	**0.00**	**7.5E-05**	**0.00**	**3.9E-05**	**0.00**	**0.01**	**1.5E+00**

Methodology:
(a) Unit = MMcf for natural gas; 1000 gallons for waste oil; and MMBtu for IC Engines liquid fuel combustion
(b) The source will limit the IC Engine combustions to (1) 10,000 gal/yr gasoline and (2) 38,000 gal/yr of diesel fuel.
(c) Total limited emissions include emissions from non-engine units.
(d) Emission Factors from AP-42, Chapter 1.11, SCC #1-05-001-14 & #1-05-002-14; using a maximum chlorine content of 0.2%.

Appendix A: Emission Calculations
From Fuel Combustion Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Potential Emissions (uncontrolled):

Source Type	No. of Equip.	Total Capacity (MMBtu/hr)	Fuel Usage (MMcf/yr) or (kgal/yr)	Fuel Usage Units	Emission Factor Units	Emission Factors (lb/unit) (a)			Potential Emissions (ton/yr)		
						CO2	CH4	N2O	CO2	CH4	N2O
Non-Engine Units											
Nat. Gas Fired Heaters (<0.3 MMBtu/hr) (b)	109	10.37	90.8	(MMcf/yr)	(lb/MMcf)	120,000	2.3	2.2	5,450	0.10	0.10
Nat. Gas Fired Heaters (>0.3 & < 10 MMBtu/hr) (c)	24	19.44	170.3	(MMcf/yr)	(lb/MMcf)	120,000	2.3	2.2	10,218	0.20	0.19
Nat. Gas Fired Boiler (c)	1	4.50	39.4	(MMcf/yr)	(lb/MMcf)	120,000	2.3	2.2	2,365	0.05	0.04
Engines (unlimited)											
IC Engines - Nat. Gas Fired (e)	21	8.89	77.9	(MMcf/yr)	(lb/MMBtu)	110	1.25	0.0022	4,284	48.68	0.08
IC Engines - Diesel Fuel Fired (f)	4	28.00	1777.4	(kgal/yr)	(lb/MMBtu)	164	6.61E-03	1.32E-03	20,113	0.81	0.16
IC Engines - Gasoline Fired (g)	2	14.00	1114.9	(kgal/yr)	(lb/MMBtu)	154.81	6.61E-03	1.32E-03	9,493	0.41	0.08
Total Potential Emissions:									**51,923**	**50.24**	**0.66**
SuMMed Potential Emissions in tons/yr										**51,974**	
CO2e Total in tons/yr										**53,375**	
Engines (limited)											
IC Engines - Diesel Fuel Fired (f)	4	28.00	38.0	(kgal/yr)	(lb/MMBtu)	164	6.61E-03	1.32E-03	430	1.73E-02	3.46E-03
IC Engines - Gasoline Fired (g)	2	14.00	10.0	(kgal/yr)	(lb/MMBtu)	154.81	6.61E-03	1.32E-03	85	3.64E-03	7.28E-04
Total Limited Emissions:									**22,832**	**49**	**4.19E-01**
SuMMed Potential Emissions in tons/yr										**22,882**	
CO2e Total in tons/yr										**24,183**	

Methodology:

(a) Unit = MMcf for natural gas; 1000 gallons for waste oil; and MMBtu for IC Engines liquid fuel combustion
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.
Emission Factor Units for waste oil and IC Engines are in kg/MMBtu.
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

Emission Factors from Tables C-1 and 2 of 40 CFR Part 98 Subpart C. Waste oil is called Used oil in 40 CFR 98.
Potential Emission (tons/yr) = Heat Input Capacity MMBtu/hr x Emission Factor (kg/MMBtu) x 2.20462 lb/kg x 8760 hrs/yr /2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emission Calculations
Propane Combustion

Company Name: **Jasper Engine Exchange, Inc.**
Source Address: **815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547**
Significant Source Modification: **037-40381-00089**
Reviewer: **Kelsey Bonhivert**

Emission Unit	MMBtu/hr
OVE009	0.2
OVE018	0.2
OVE022	0.2
OVE31	0.2
OVE33	0.2

Total Heat Input Capacity MMBtu/hr: 1.00

Potential Throughput kgals/year: 95.74

SO2 Emission factor = 0.10 x S
S = Sulfur Content = 15.00 grains/100ft^3

	Pollutant						
	PM*	PM10*	direct PM2.5**	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.2	0.7	0.7	1.5	13.0	1.0	7.5
				(0.10S)		**TOC value	
Potential Emission in tons/yr	0.01	0.03	0.03	0.07	0.62	0.05	0.36

*PM emission factor is filterable PM only. PM emissions are stated to be all less than 10 microns in aerodynamic equivalent diameter, footnote in Table 1.5-1, therefore PM10 is based on the filterable and condensable PM emission factors.

** No direct PM2.5 emission factor was given. Direct PM2.5 is a subset of PM10. If one assumes all PM10 to be all direct PM2.5, then a worst case assumption of direct PM2.5 can be made.

**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology
1 gallon of LPG has a heating value of 94,000 Btu
1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)
(Source - AP-42 (Supplement B 10/96) page 1.5-1)
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu
Emission Factors are from AP42 (7/08), Table 1.5-1 (SCC #1-03-010-02)
Propane Emission Factors shown. Please see AP-42 for butane.
Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/kgal	12,500	0.2	0.9
Potential Emission in tons/yr	598	0.01	0.04
Summed Potential Emissions in tons/yr	598		
CO2e Total in tons/yr	611		

Methodology
The CO2 Emission Factor for Propane is 12500. The CO2 Emission Factor for Butane is 14300.
Emission Factors are from AP 42 (7/08), Table 1.5-1 (SCC #1-03-010-02)
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emissions Calculations
Natural Gas Combustion (Less than 100 MMBtu/hr) for Cleaning Furnaces

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

			Pollutant						
			PM*	PM10*	direct PM2.5	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF			1.9	7.6	7.6	0.6	100.0	5.5	84.0
							**see below		
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)						
OVE001	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE002	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE003	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE004	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE013	0.72	6.307	0.006	0.024	0.024	0.002	0.315	0.017	0.265
OVE014	0.43	3.767	0.004	0.014	0.014	0.001	0.188	0.010	0.158
OVE016	0.72	6.307	0.006	0.024	0.024	0.002	0.315	0.017	0.265
OVE029	0.72	6.307	0.006	0.024	0.024	0.002	0.315	0.017	0.265
OVE036	0.72	6.307	0.006	0.024	0.024	0.002	0.315	0.017	0.265
OVE042	0.39	3.416	0.003	0.013	0.013	0.001	0.171	0.009	0.143
Totals	**5.420**	**47.479**	**0.05**	**0.18**	**0.18**	**0.01**	**2.37**	**0.13**	**1.99**

*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

			HAPs - Organics				
			Benzene	Dichlorobenzen	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMCF			2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)				
OVE001	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE002	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE003	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE004	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE013	0.72	6.307	6.6E-06	3.8E-06	2.4E-04	5.7E-03	1.1E-05
OVE014	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE015	0.43	3.767	4.0E-06	2.3E-06	1.4E-04	3.4E-03	6.4E-06
OVE016	0.72	6.307	6.6E-06	3.8E-06	2.4E-04	5.7E-03	1.1E-05
OVE036	0.72	6.307	6.6E-06	3.8E-06	2.4E-04	5.7E-03	1.1E-05
OVE042	0.39	3.416	3.6E-06	2.0E-06	1.3E-04	3.1E-03	5.8E-06
Total			**4.7E-05**	**2.7E-05**	**1.7E-03**	**4.0E-02**	**7.6E-05**

			HAPs - Metals					
			Lead	Cadmium	Chromium	Manganese	Nickel	**Total HAPs (Organics+Metals)**
Emission Factor in lb/MMCF			5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Potential Emissions (tons/yr)					
OVE001	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE002	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE003	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE004	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE013	0.72	6.307	1.6E-06	3.5E-06	4.4E-06	1.2E-06	6.6E-06	6.0E-03
OVE014	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE015	0.43	3.767	9.4E-07	2.1E-06	2.6E-06	7.2E-07	4.0E-06	3.6E-03
OVE016	0.72	6.307	1.6E-06	3.5E-06	4.4E-06	1.2E-06	6.6E-06	6.0E-03
OVE036	0.72	6.307	1.6E-06	3.5E-06	4.4E-06	1.2E-06	6.6E-06	
OVE042	0.39	3.416	8.5E-07	1.9E-06	2.4E-06	6.5E-07	3.6E-06	3.22E-03
Total	**5.13**	**44.939**	**1.1E-05**	**8.3E-06**	**1.1E-05**	**2.9E-06**	**1.6E-05**	**0.04**

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

Methodology
All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Heating Value of Natural Gas is assumed to be 1000 MMBTU/MMCF

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

Emission Unit	Date of Construction	MMBTU/hr
HTR171	12/29/2005	0.3
HTR172	12/29/2005	0.3
HTR173	12/29/2005	0.3
HTR174	12/29/2005	0.3

Company Name: **Jasper Engine Exchange, Inc.**
Source Address: **815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547**
Significant Source Modification: **037-40381-00089**
Reviewer: **Kelsey Bonhivert**

Total Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
1.2	1020	10.3

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.01	0.04	0.04	0.003	0.52	0.03	0.43

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

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

HAPS Calculations

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.10E-03	1.20E-03	7.50E-02	1.80E+00	3.40E-03	
Potential Emission in tons/yr	1.1E-05	6.2E-06	3.9E-04	9.3E-03	1.8E-05	**9.7E-03**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	2.6E-06	5.7E-06	7.2E-06	2.0E-06	1.1E-05	**2.8E-05**
					Total HAPs	**9.7E-03**
					Worst HAP	**9.3E-03**

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

Greenhouse Gas Calculations

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	618	0.01	0.01
Summed Potential Emissions in tons/yr	618		
CO2e Total in tons/yr	622		

Methodology
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Emergency Generator (UPS027)

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	227.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	113,500

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.12	0.12	0.12	0.12	1.76	0.14	0.38

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	3.7E-04	1.6E-04	1.1E-04	1.6E-05	4.7E-04	3.0E-04	3.7E-05	6.7E-05

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**1.5E-03**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Potential Emission in tons/yr	65.26	2.6E-03	5.3E-04

Summed Potential Emissions in tons/yr	**65.27**
CO2e Total in tons/yr	**65.48**

Methodology
Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emission Calculations
Cleaning Furnaces

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Unit ID	Controlled PTE (lb/hr) as Provided by the Manufacturer							Controlled PTE (ton/year)							Uncontrolled PTE (tons/year)						
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	PM	PM10	PM2.5	SO2	NOx	VOC	CO	PM	PM10	PM2.5	SO2	NOx	VOC	CO
OVE001	0.0133	0.0133	0.0133	0.0018	0.0271	0.0174	0.05	0.058	0.058	0.058	0.008	0.119	0.076	0.219	5.825	5.825	5.825	0.008	0.119	7.621	21.900
OVE002	0.0133	0.0133	0.0133	0.0018	0.0271	0.0174	0.05	0.058	0.058	0.058	0.008	0.119	0.076	0.219	5.825	5.825	5.825	0.008	0.119	7.621	21.900
OVE003	0.0133	0.0133	0.0133	0.0018	0.0271	0.0174	0.05	0.058	0.058	0.058	0.008	0.119	0.076	0.219	5.825	5.825	5.825	0.008	0.119	7.621	21.900
OVE004	0.0133	0.0133	0.0133	0.0018	0.0271	0.0174	0.05	0.058	0.058	0.058	0.008	0.119	0.076	0.219	5.825	5.825	5.825	0.008	0.119	7.621	21.900
OVE013	0.027	0.027	0.027	0.0036	0.0542	0.0348	0.1	0.118	0.118	0.118	0.016	0.237	0.152	0.438	11.826	11.826	11.826	0.016	0.237	15.242	43.800
OVE014	0.0133	0.0133	0.0133	0.0018	0.0271	0.0174	0.05	0.058	0.058	0.058	0.008	0.119	0.076	0.219	5.825	5.825	5.825	0.008	0.119	7.621	21.900
OVE016	0.027	0.027	0.027	0.0036	0.0542	0.0348	0.1	0.118	0.118	0.118	0.016	0.237	0.152	0.438	11.826	11.826	11.826	0.016	0.237	15.242	43.800
OVE029*	0.027	0.027	0.027	0.0036	0.0542	0.0348	0.1	0.118	0.118	0.118	0.016	0.237	0.152	0.438	11.826	11.826	11.826	0.016	0.237	15.242	43.800
OVE036	0.027	0.027	0.027	0.0036	0.0542	0.0348	0.1	0.118	0.118	0.118	0.016	0.237	0.152	0.438	11.826	11.826	11.826	0.016	0.237	15.242	43.800
OVE042	0.0133	0.0133	0.0133	0.0018	0.271	0.0174	0.05	0.058	0.058	0.058	0.008	1.187	0.076	0.219	5.825	5.825	5.825	0.008	1.187	7.621	21.900
Total	**0.19**	**0.19**	**0.19**	**0.03**	**0.62**	**0.24**	**0.70**	**0.82**	**0.82**	**0.82**	**0.11**	**2.73**	**1.07**	**3.07**	**82.26**	**82.26**	**82.26**	**0.11**	**2.73**	**106.70**	**306.60**

*OVE015 was removed and replaced by OVE029

Methodology
- Controlled PTE (lb/hr) = Average controlled emissions exiting the furnace as provided by the manufacturer based on laboratory testing
- PM10 and PM2.5 are assumed to equal PM
- Controlled PTE (ton/year) = Controlled PTE (lb/hr) * (8760 hr/yr) * (1 ton / 2000 lb)
- Uncontrolled PTE (ton/year) = Controlled PTE (ton/year) / (1 - Assumed Control Efficiency)
- Assumed Control Efficiency (conservative) = 99% control for PM, PM10, PM2.5, VOC, and CO

Allowable Emissions Pursuant to 326 IAC 6.5-1-2

Unit ID	Flowrate (acfm)	326 IAC 6.5-1-2 Allowable PM (lb/hr)
OVE001	650	0.167
OVE002	650	0.167
OVE003	650	0.167
OVE004	650	0.167
OVE013	650	0.167
OVE014	650	0.167
OVE016	428	0.110
OVE029	650	0.167
OVE036		
OVE042	650	0.167

Allowable Emissions Pursuant to 326 IAC 2-2

Unit ID	VOC (lb/hr)	CO (lb/hr)	VOC (ton/yr)	CO (ton/yr)
OVE001	1.04	3	4.5552	13.14
OVE002	1.04	3	4.5552	13.14
OVE003	1.04	3	4.5552	13.14
OVE004	1.04	3	4.5552	13.14
OVE013	2.09	6	9.1542	26.28
OVE014	1.04	3	4.5552	13.14
OVE016	2.09	6	9.1542	26.28
OVE029	2.09	6	9.1542	26.28
OVE036	2.09	6	9.1542	26.28
OVE042	1.04	3	4.5552	13.14
			63.948	**183.96**

Methodology
326 IAC 6.5-1-2 Allowable PM (lb/hr) = (0.03 gr/dscf) * Flowrate (acfm) * (60 min/hr) * (1 lb/7000 gr)

Appendix A: Emission Calculations
Blasting

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasp
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

PTE by Individual Blaster

Unit ID	Control Unit ID	Blast Media	Blast Rate (lb/hr)	Emission Factor		Uncontrolled PTE (tons/year)		Particulate Recovery System (Cyclone / Air Wash	Recovery Control Efficiency	Uncontrolled PTE After Integral Equipment (tons/year)		Control Efficiency	Controlled PTE (tons/year)	
				PM (lb/lb blast media)	PM10 / PM2.5 (lb/lb PM)	PM	PM10 / PM2.5			PM	PM10 / PM2.5		PM	PM10 / PM2.5
BLA020	DUC029	Aluminum Oxide	315	0.01	1	13.80	13.80	Cyclone	95.0%	0.690	0.690	99.0%	0.007	0.007
BLA009	DUC081	Coal Slag	182	0.01	1	7.97	7.97	Cyclone	95.0%	0.399	0.399	99.0%	0.004	0.004
BLA011	DUC081	Coal Slag	182	0.01	1	7.97	7.97	Cyclone	95.0%	0.399	0.399	99.0%	0.004	0.004
BLA018	DUC081	Sand	182	0.041	0.7	32.68	22.88	Cyclone	95.0%	1.634	1.144	99.0%	0.016	0.011
BLA026	DUC081	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA056	DUC081	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA063	DUC081	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA066	DUC081	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA067	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA076	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA077	DUC081	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA081	DUC081	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA084	DUC081	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA085	DUC081	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA086	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA087	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA088	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA090	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA100	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA019	DUC082	Steel Shot	600	0.004	0.86	10.51	9.04	Air Wash	95.0%	0.526	0.452	99.0%	0.005	0.005
BLA033	DUC082	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA046	DUC082	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA068	DUC082	Steel Shot	600	0.004	0.86	10.51	9.04	Air Wash	95.0%	0.526	0.452	99.0%	0.005	0.005
BLA073	DUC082	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA078	DUC082	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA079	DUC082	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA080	DUC082	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA089	DUC082	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA098	DUC082	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA099	DUC082	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA008	DUC083	Coal Slag	182	0.01	1	7.97	7.97	Cyclone	95.0%	0.399	0.399	99.0%	0.004	0.004
BLA031	DUC083	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA032	DUC083	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA034	DUC083	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA042	DUC083	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA057	DUC083	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA074	DUC083	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA075	DUC083	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA094	DUC083	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA097	DUC083	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA105	DUC083	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA007	DUC084	Coal Slag	182	0.01	1	7.97	7.97	Cyclone	95.0%	0.399	0.399	99.0%	0.004	0.004
BLA037	DUC084	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA041	DUC084	Coal Slag	182	0.01	1	7.97	7.97	Cyclone	95.0%	0.399	0.399	99.0%	0.004	0.004
BLA045	DUC084	Plastic Bead	116	0.01	1	5.08	5.08	Cyclone	95.0%	0.254	0.254	99.0%	0.003	0.003
BLA064	DUC084	Sodium Bicarbonate	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA065	DUC084	Aluminum Oxide	315	0.01	1	13.80	13.80	Cyclone	95.0%	0.690	0.690	99.0%	0.007	0.007
BLA069	DUC084	Armex Blast Media	12.5	0.01	1	0.55	0.55	N/A	0.0%	0.548	0.548	99.0%	0.005	0.005
BLA083	DUC091	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.701	0.603	99.0%	0.007	0.006
BLA061	DUC092	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA091	DUC093	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.237	0.237	99.0%	0.002	0.002
BLA108	DUC063*	steel	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.70	0.60	99.0%	0.01	0.01
BLA113	DUC063*	soda/Armex	66	0.01	1	2.89	2.89	N/A	0.0%	2.89	2.89	99.0%	0.03	0.03
BLA114	DUC063*	steel	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.70	0.60	99.0%	0.01	0.01
BLA119	DUC063*	steel	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.70	0.60	99.0%	0.01	0.01
BLA115	DUC083	steel	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.70	0.60	99.0%	0.01	0.01
BLA116	DUC083	plastic	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.24	0.24	99.0%	0.00	0.00
BLA152	DUC063	Steel Shot	800	0.004	0.86	14.02	12.05	Air Wash	95.0%	0.70	0.60	99.0%	0.01	0.01
BLA154	DUC081	Plastic Bead	108	0.01	1	4.73	4.73	Cyclone	95.0%	0.24	0.24	99.0%	0.00	0.00
Total						**405.25**	**366.99**			**31.331**	**29.418**		**0.313**	**0.294**

Operation	ID #	Outlet Loading (gr/acf)	CFM	Controlled Emissions PM/PM10/PM2.5 (ton/yr)	Controlled Emissions PM/PM10/PM2.5 (lb/hr)	Control Efficiency	Uncontrolled Emissions PM/PM10/PM2.5 (ton/yr)		Uncontrolled Emissions PM/PM10/PM2.5 (lb/hr)
miscellaneous buffing and grinding	DUC094*	0.000013	2,200	1.07E-03	2.45E-04	99.00%	0.11		0.02
miscellaneous buffing and grinding	DUC096*	0.000013	2,200	1.07E-03	2.45E-04	99.00%	0.11		0.02
Total				**2.15E-03**	**4.90E-04**		**0.21**		**0.05**

Methodology
Blast rate (lb/hr) was provided by the applicant
Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
There were no emission factors for PM2.5. Therefore, assume PM10 = PM2.5.
Uncontrolled PTE PM (tons/year) = Blast Rate (lb/hr) * PM Emission Factor (lb/lb blast media) * (8760 hr/yr) * (1 ton/2000 lb)
Uncontrolled PTE PM10 (tons/year) = Uncontrolled PTE PM (tons/year) * PM10 Emission Factor (lb/lb PM)
Controlled PTE (tons/year) = Uncontrolled PTE * (1 - Control Efficiency)
OR
Potential emissions = Outlet loading (gr/acf) * Air Flow Rate (cfm) * 60 min/hr * (1/7000) lb/gr * 8760 hr/yr / 2000 lb/ton / (1-control efficiency)

PTE by Control Device

Control Device ID	Unit IDs	Unit Descriptions		Flowrate (acfm)	326 IAC 6.5-1-2 Limit (grains/dscf)	326 IAC 6.5-1-2 Allowable PM (lb/hr)	Controlled Emissions (tons/year) PM	Controlled Emissions (tons/year) PM10 / PM2.5	Uncontrolled PTE (tons/year) PM	Uncontrolled PTE (tons/year) PM10 / PM2.5	Limited Effciency	PSD Minor Limited Emissions (tons/year) PM	PSD Minor Limited Emissions (tons/year) PM10 / PM2.5	PSD Minor Limited Emissions (lbs/hour) PM	PSD Minor Limited Emissions (lbs/hour) PM10 / PM2.5	Control Device ID
DUC029	BLA020	Aluminum Oxide Blast Unit		6400	0.03	1.65	0.69	0.69	13.80	13.80	77%	3.17	3.17	0.72	0.72	DUC029
DUC063*	BLA119, BLA108, BLA113, BLA114, BL152	Plastic Bead, Steel Shot, and Soda/Armex Blast Units		12,000	0.03	3.09	0.06	0.05	5.69	5.30	77%	1.31	1.22	0.30	0.28	DUC063
DUC081	BLA009, BLA011, BLA018, BLA056, BLA076, BLA077, BLA081, BLA067, BLA085, BLA086, BLA087, BLA088, BLA084, BLA090, BLA100, BLA026, BLA063, BLA068, BL154	Plastic Bead, Steel Shot, Sodium Bicarbonate, and Armex Blast Units		40,000	0.03	10.29	0.09	0.08	9.47	8.49	77%	2.18	1.95	0.50	0.45	DUC081
DUC082	BLA073, BLA078, BLA079, BLA089, BLA033, BLA046, BLA098, BLA099, BLA019, BLA068, BLA080	Plastic Bead, Steel Shot, Sodium Bicarbonate, and Armex Blast Units		40,000	0.03	10.29	4.58	4.33	60.33	55.43	77%	13.88	12.75	3.17	2.91	DUC082
DUC083	BLA057, BLA074, BLA075, BLA031, BLA032, BLA034, BLA042, BLA008, BLA061, BLA105, BLA097, BLA094, BLA115*, BLA116*	Plastic Bead, Steel Shot, Sodium Bicarbonate, Armex, and Coal Slag Blast Units		40,000	0.03	10.29	5.40	5.31	35.28	33.32	77%	8.11	7.66	1.85	1.75	DUC083
DUC084	BLA007, BLA037, BLA045, BLA065, BLA069, BLA041, BLA064	Sodium Bicarbonate, Aluminum Oxide, Armex, and Coal Slag Blast Units		40,000	0.03	10.29	3.38	3.38	36.46	36.46	77%	8.39	8.39	1.91	1.91	DUC084
DUC091*	BLA083	Steel Shot Blast Unit		2,200	0.03	0.57	0.70	0.60	14.02	12.05	0%	14.02	12.05	3.20	2.75	DUC091
DUC092*	BLA061	Plastic Bead Blast Unit		2,200	0.03	0.57	2.37E-01	2.37E-01	4.73	4.73	0%	4.73	4.73	1.08	1.08	DUC092
DUC093	BLA091	Plastic Bead Blast Unit		2,200	0.03	0.57	0.24	0.24	4.73	4.73	0%	4.73	4.73	1.08	1.08	DUC093
DUC094	buffing, grinding			2,200	0.03	0.57	1.07E-03	1.07E-03	0.11	0.11	0%	0.11	0.11	0.02	0.02	DUC094
DUC096	buffing, grinding			2,200	0.03	0.57	1.07E-03	1.07E-03	0.11	0.11	0%	0.11	0.11	0.02	0.02	DUC096
Total							**15.38**	**14.93**	**184.73**	**174.53**		**60.73**	**56.87**	**13.87**	**12.98**	

Methodology
326 IAC 6.5-1-2 Allowable PM (lb/hr) = (0.03 gr/dscf) * Flowrate (acfm) * (60 min/hr) * (1 lb/7000 gr)

Appendix A: Emissions Calculations
Welding and Thermal Cutting

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Welding Station	PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	Max. electrode consumption per station (lbs/day)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)							
	WELDING				PM = PM10	Mn	Ni	Cr	PM = PM10		Mn		Ni		Cr	
									(lbs/hr)	(ton/yr)	(lbs/hr)	(ton/yr)	(lbs/hr)	(ton/yr)	(lbs/hr)	(ton/yr)
WEL083	Stick (6013 electrode)[A]	1	20	480	0.0384	0.0945	0.0002	0.0004	0.768	3.364	1.890	8.278	0.004	0.018	0.008	0.03504
WEL002 and WEL073	Metal Inert Gas (MIG)(carbon steel)	2	9	216	0.0055	0.0005			0.099	0.434	0.009	0.039	0	0	0	0
WEL037 and WEL118	Tungsten Inert Gas (TIG)(carbon steel	2	0.3	7.2	0.0055	0.0005			0.003	0.014	3.00E-04	0.001	0	0	0	0
WEL200	Tungsten Inert Gas (TIG)(carbon steel	1	0.3	7.2	0.0055	0.0005			0.002	0.007	1.50E-04	0.001	0	0	0	0
		Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)							
	FLAME CUTTING				PM = PM10	Mn	Ni	Cr	PM = PM10		Mn		Ni		Cr	
									(lbs/hr)	(ton/yr)	(lbs/hr)	(ton/yr)	(lbs/hr)	(ton/yr)	(lbs/hr)	(ton/yr)
WEL142	Plasma**	1	0.75	1	0.0039				1.76E-04	7.69E-04	0	0	0	0	0	0
								EMISSION TOTALS	**0.872**	**3.820**	**1.899**	**8.320**	**0.004**	**0.018**	**0.008**	**0.035**
											Total HAPs	**8.4**				

Methodology:

[A]6013 electrode is the worst case of the two types of electrodes (6011 and 6013) used at welding station WEL083.
*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculting the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick
Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)
Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)
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
Woodworking Operations

Company Name: Jasper Engine Exchange, Inc.
Source Address: 815 Wernsing Rd. and 911 W. Division Rd. Jasper, Indiana 47547
Significant Source Modification: 037-40381-00089
Reviewer: Kelsey Bonhivert

Unit ID	Equipment Description
SAW048	12" Table Saw
SAW049	Panel Saw
SAW050	Table Saw
SAW051	14" Band Saw
SAW052	12" Compound Miter Saw
SAW053	Sliding Miter Saw
SAN058	Horizontal Edge Sander
CTL001	Router Table
CTL002	8" Stationary Jointer
CTL003	20" Stationary Jointer

All equipment listed above located at Branch #1

Portable Dust Collectors

Unit ID	Maximum Air Flow (acfm)	Overall control efficiency	Design Outlet Grain Loading (gr/acf)	6.5-1-2 Limit (gr/dscf)	6.5-1-2 Allowable Emission Rate (lb/hr)	After Control Emissions (lb/hr)	After Control Emissions (ton/yr)	Before Control Emissions (lb/hr)	Before Control Emissions (ton/yr)
DUC036	1200	99.0%	0.000013	0.03	0.31	1.34E-04	5.86E-04	0.01	0.06
DUC056	1100	99.0%	0.000013	0.03	0.28	1.23E-04	5.37E-04	0.01	0.05
			Total			**2.56E-04**	**1.12E-03**	**0.03**	**0.11**

Methodology:
After Control Emissions (lb/hr)= (Design Outlet Grain Loading (gr/acf) * (Maximum Air Flow (acfm)) * (60 min/hr) / (7000 gr/lb)
After Control Emissions (ton/yr) = After Control Emissions (lb/hr) * 8760 hrs / 2000 lbs
Before Control Emissions (lb/hr) = (After Control emission rate (lb/hr)) / (1- control efficiency)
Before Control Emissions (ton/yr) = Before Control Emissiosn (lb/hr) * 8760 hrs / 2000 lbs
326 IAC 6.5-1-2 Allowable PM (lb/hr) = (0.03 gr/dscf) * Flowrate (acfm) * (60 min/hr) * (1 lb/7000 gr)

In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, the potential to emit particulate matter from the woodworking operations were calculated after consideration of the controls for determining operating permit level and for determining the applicability of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

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

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

October 31, 2018

Benjamin Schwenk
Jasper Engine Exchange, Inc.
P.O. Box 650
Jasper, Indiana 47547

Re: Public Notice
Jasper Engine Exchange, Inc.
Permit Level: Title V SSM (Minor PSD) and Title V SPM
Permit Number: 037-40481-00089 and 037-40449-00089

Dear Mr. Schwenk:

Enclosed is a copy of your draft Title V Significant Source Modification (Minor PSD) and draft Title V Significant Permit Modification, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that The Herald in Jasper, Indiana publish the abbreviated version of the public notice no later than November 2, 2018. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Jasper Public Library, 1116 Main Street in Jasper, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Brian Wright , 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 4-6544 or dial (317) 234-6544.

Sincerely,

John F. Jackson

John F. Jackson
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter 1/9/2017

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

November 2, 2018

The Herald
P.O. Box 31
Jasper, Indiana 47547

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Jasper Engine Exchange, Inc., Dubois County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than November 2, 2018.

Please send the invoice, notarized form, clippings showing the date of publication to Bo Liu, at the Indiana Department of Environmental Management, Accounting, Room N1340, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call John Jackson at 800-451-6027 and ask for extension 3-1449 or dial 317-233-1449.

Sincerely,

John F. Jackson

John F. Jackson
Permit Branch
Office of Air Quality

Permit Level: Title V Significant Source Modification (Minor PSD) and
Title V Significant Permit Modification
Permit Number: 037-40381-00089 and 037-40449-00089

Enclosure

PN Newspaper Letter 8/22/2018

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

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

October 31, 2018

To: Jasper 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: Jasper Engine Exchange, Inc.
Permit Number: 037-40381-00089 and 037-40449-00089

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library 1/9/2017

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

Notice of Public Comment

October 31, 2018
Jasper Engine Exchange, Inc.
037-40381-00089 and 037-40449-00089

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover Letter 1/9/2017

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Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD
DRAFT INDIANA AIR PERMIT

October 31, 2018

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

Permit Number: **037-40381-00089 and 037-40449-00089**
Applicant Name: **Jasper Engine Exchange, Inc.**
Location: **Jasper, Dubois County, Indiana**

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:
http://www.in.gov/ai/appfiles/idem-caats/

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

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

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

Mail Code 61-53

IDEM Staff	JJACKSON 10/31/2018 JASPER ENGINE EXCHANGE INC 037-40381-00089 and 037-40449-00089 (draft)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Benjamin Schwenk JASPER ENGINE EXCHANGE INC PO Box 650 Jasper IN 47547 (Source CAATS)									
2		Michael Schwenk Vice President JASPER ENGINE EXCHANGE INC PO Box 650 Jasper IN 475470650 *(RO CAATS)*									
3		Dubois County Commissioners One Courthouse Square Jasper IN 47546 *(Local Official)*									
4		Jasper City Council and Mayors Office PO Box 29, 610 Main Jasper IN 47546 *(Local Official)*									
5		Mr. Alec Kalla 8733 W. Summit Circle Drive French Lick IN 47432 *(Affected Party)*									
6		Jasper Public Library 1116 Main Street Jasper IN 47546 *(Library)*									
7		DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 *(Health Department)*									
8		John Blair 800 Adams Ave Evansville IN 47713 *(Affected Party)*									
9											
10											
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.

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