NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a
Minor Source Operating Permit (MSOP)

for Jasper Engine Exchange, Inc. - Branch #50 in Dubois County

MSOP Renewal No.: M037-41778-00123

The Indiana Department of Environmental Management (IDEM) has received an application from Jasper Engine Exchange, Inc. - Branch #50 located at 733 W. Division Road, Jasper, Indiana 47546 for a renewal of its MSOP issued on December 12, 2014. If approved by IDEM’s Office of Air Quality (OAQ), this proposed renewal would allow Jasper Engine Exchange, Inc. - Branch #50 to continue to operate its existing source.

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-Dubois County Contractual Public Library
1116 Main Street
Jasper, Indiana 47546

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 posted on IDEM’s website (https://www.in.gov/idem/5474.htm) 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,
IDEEM will decide whether or not to hold a public hearing. IDEEM 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, IDEEM 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 IDEEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEEM 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 IDEEM’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 IDEEM at the address below. Please refer to permit number M037-41778-00123 in all correspondence.

Comments should be sent to:

L. David Cohen
IDEEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for L. David Cohen or (317) 233-0178
Or dial directly: (317) 233-9327
Fax: (317) 232-6749 attn: L. David Cohen
E-mail: LCohen@ideem.IN.gov

All comments will be considered by IDEEM 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. IDEEM 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 IDEEM Air Permits page on the Internet at: http://www.in.gov/ideem/airquality/2355.htm; and the Citizens’ Guide to IDEEM on the Internet at: http://www.in.gov/ideem/6900.htm.

What will happen after IDEEM makes a decision?

Following the end of the public comment period, IDEEM 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 IDEEM’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 IDEEM’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 IDEEM Regional Office indicated above, and the IDEEM 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 L. David Cohen of my staff at the above address.

Madhurima Moulak, Ph.D., Section Chief
Permits Branch
Office of Air Quality
Minor Source Operating Permit Renewal

OFFICE OF AIR QUALITY

Jasper Engine Exchange, Inc. - Branch #50
733 W. Division Road
Jasper, Indiana 47546

(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.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

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<th>Issued by:</th>
<th>Issuance Date:</th>
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<tr>
<td>Madhurima D. Moulik, Ph. D., Section Chief Permits Branch Office of Air Quality</td>
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<th>Master Agency Interest ID: 108440</th>
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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary electric motors and generators (non-auto related) repair plant.

| Source Address | 733 W. Division Road, Jasper, Indiana 47546 |
| General Source Phone Number | 812-482-1041 |
| SIC Code | 3621 (Motors and Generators) |
| County Location | Dubois |
| Source Location Status | Attainment for all criteria pollutants |
| Source Status | Minor Source Operating Permit Program |
| | Minor Source, under PSD Rules |
| | Minor Source, Section 112 of the Clean Air Act |
| | Not 1 of 28 Source Categories |

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) One (1) totally enclosed pneumatic coal slag blaster, identified as BLA112, constructed in 2008, with a maximum capacity of four hundred (400) pounds per hour (lb/hr) and maximum density of one hundred fifty-six (156) pounds per cubic feet (lbs/ft³), using baghouse DUC112 as control, and exhausting to stack DUC112.

(b) One (1) high volume low pressure (HVLP) spray application spray booth, identified as PTB016, constructed in 2012, with a maximum capacity of two (2) units per hour and five-hundredths (0.05) gallons of coating per unit, using dry filters for overspray control, and exhausting to stack PTB016.

(c) One (1) high volume low pressure (HVLP) spray application spray booth, identified as PTB017, constructed in 2013, with a maximum capacity of four (4) units per hour and three-hundredths (0.03) gallons of coating per unit, using dry filters for overspray control, and exhausting to stack PTB017.

(d) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE023, constructed in 2013, with a maximum throughput of seventy-five (75) pounds of equipment and one hundred twenty (120) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of five-tenths (0.5) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE023.

(e) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE026, constructed in 2013, with a maximum throughput of one thousand (1,000) pounds of equipment and one thousand two hundred twenty-five (1,225) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of nine-tenths (0.9) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE026.
(f) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE027, constructed in 2013, with a maximum throughput of five hundred (500) pounds of equipment and ninety-four (94) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of four-tenths (0.4) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE027.

(g) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE028, constructed in 2013, with a maximum throughput of five hundred (500) pounds of equipment and three hundred twenty (320) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of seven-tenths (0.7) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE028.

(h) Machining and grinding operations, constructed in 2013, controlled by one (1) baghouse, identified as DUC088 and exhausting indoors.

(i) One (1) degreasing unit without a remote solvent reservoir, identified as CLT314, constructed in 2013, with a maximum capacity of twenty (20) gallons and maximum throughput of two hundred forty (240) gallons per year, using no control, and exhausting indoors.

(j) One (1) coating operation for application of rust-preventative coating, identified as CLT159, constructed in 2013, with a maximum capacity of fifty-five (55) gallons and maximum throughput of fifty-five (55) gallons per year, using no control, and exhausting indoors.

(k) One (1) degreasing unit (where material is circulated back into container), identified as CLT333, constructed in 2013, with a maximum capacity of ten (10) gallons and maximum throughput of one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

(l) One (1) Vacuum Pressure Impregnation (VPI) system, identified as PEQ-226, constructed in 2013, with a maximum throughput of six hundred sixty (660) gallons per year, using no control, and exhausting indoors.

(m) One (1) solvent-less polyester resin tank, identified as TAN157, constructed in 2013, with a maximum capacity of one hundred twenty (120) gallons and maximum throughput of one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

(n) One (1) solvent-less polyester resin tank, identified as TAN207, constructed in 2019, with a maximum capacity of one hundred twenty (120) gallons and maximum throughput of one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

(o) One (1) degreasing unit without a remote solvent reservoir, identified as CLT315, constructed in 2019, with a maximum capacity of fifty (50) gallons and maximum throughput of six hundred (600) gallons per year, using no control, and exhausting indoors.

(p) Three (3) metal inert gas (MIG) welding stations, identified as WEL148, WEL151 and WEL201, constructed in 2019, with a maximum capacity to consume nine (9) pounds of welding wire per hour, using no control, and exhausting indoors.
(q) One (1) tungsten inert gas (TIG) welding station, identified as WEL150, constructed in 2019, with a maximum capacity of three-tenths (0.03) pounds per hour of electrode, using no control, and exhausting indoors.
SECTION B  GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]
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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]
(a) This permit, M037-41778-00123, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

B.3 Term of Conditions [326 IAC 2-1.1-9.5]
Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

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

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

B.4 Enforceability
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
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
This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information
(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 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 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

(c) The notification 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.

B.9 Preventive Maintenance Plan [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
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.

(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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M037-41778-00123 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

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

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source’s existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

(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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

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

(1) Submitted at least one hundred twenty (120) days 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 2-6.1 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 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

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

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

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

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.

(b) 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.18 Credible Evidence [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

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<th>Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]</th>
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<tbody>
<tr>
<td><strong>C.1 Permit Revocation [326 IAC 2-1.1-9]</strong></td>
</tr>
<tr>
<td>Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:</td>
</tr>
<tr>
<td>(a) Violation of any conditions of this permit.</td>
</tr>
<tr>
<td>(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.</td>
</tr>
<tr>
<td>(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.</td>
</tr>
<tr>
<td>(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.</td>
</tr>
<tr>
<td>(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.</td>
</tr>
</tbody>
</table>

| **C.2 Opacity [326 IAC 5-1]** |
| Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit: |
| (a) Opacity shall not exceed an average of 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.3 Open Burning [326 IAC 4-1] [IC 13-17-9]** |
| The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. |

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

| **C.5 Fugitive Dust Emissions [326 IAC 6-4]** |
| The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). |
C.6 Stack Height [326 IAC 1-7]

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

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

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

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

1. When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
2. If there is a change in the following:
   A. Asbestos removal or demolition start date;
   B. Removal or demolition contractor; or
   C. Waste disposal site.

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(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,
before 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 2-6.1-5(a)(2)]

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

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

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

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days
prior to the actual test date.

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

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

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

Compliance with applicable requirements shall be documented as required by this permit. The
Permittee shall be responsible for installing any necessary equipment and initiating any required
monitoring related to that equipment. All monitoring and record keeping requirements not already
legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

(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

C.12 Response to Excursions or Exceedances

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.13 Actions Related to Noncompliance Demonstrated by a Stack Test

(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.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, startups or shutdowns of any emission unit or emission control equipment, that results in violations of applicable air pollution control regulations or applicable emission limitations must be kept and retained for a period of three (3) years and be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any emission unit or emission control equipment occurs that lasts more than one (1) hour, the condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification must be made by telephone or other electronic means, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of the occurrence.

(c) Failure to report a malfunction of any emission unit or emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information on the scope and expected duration of the malfunction must be provided, including the items specified in 326 IAC 1-6-2(c)(3)(A) through (E).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of 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

(b) 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.

(c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.
SECTION D.1  EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) totally enclosed pneumatic coal slag blaster, identified as BLA112, constructed in 2008, with a maximum capacity of four hundred (400) pounds per hour (lb/hr) and maximum density of one hundred fifty-six (156) pounds per cubic feet (lbs/ft³), using baghouse DUC112 as control, and exhausting to stack DUC112.

(h) Machining and grinding operations, constructed in 2013, controlled by one (1) baghouse, identified as DUC088 and exhausting indoors.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the blasting operation (BLA112) and the machining and grinding operation exhausting to baghouse, DUC088, shall each not exceed 0.03 grains per dry standard cubic foot.

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

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

Compliance Determination Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.3 Particulate Control

In order to comply with Condition D.1.1, 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:

<table>
<thead>
<tr>
<th>Baghouse ID</th>
<th>Emission Unit IDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUC112</td>
<td>BLA112</td>
</tr>
<tr>
<td>DUC088</td>
<td>machining and grinding operations</td>
</tr>
</tbody>
</table>
SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(d) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE023, constructed in 2013, with a maximum throughput of seventy-five (75) pounds of equipment and one hundred twenty (120) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of five-tenths (0.5) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE023.

(e) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE026, constructed in 2013, with a maximum throughput of one thousand (1,000) pounds of equipment and one thousand two hundred twenty-five (1,225) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of nine-tenths (0.9) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE026.

(f) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE027, constructed in 2013, with a maximum throughput of five hundred (500) pounds of equipment and ninety-four (94) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of four-tenths (0.4) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE027.

(g) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE028, constructed in 2013, with a maximum throughput of five hundred (500) pounds of equipment and three hundred twenty (320) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of seven-tenths (0.7) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE028.

(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 2-6.1-5(a)(1)]

D.2.1 Incinerators [326 IAC 4-2]

Pursuant to 326 IAC 4-2-2 (Incinerators), the Permittee shall comply with the following for the pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028:

(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.
D.2.2 Particulate Matter [326 IAC 6.5]  
Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from OVE023, OVE026, OVE027, and OVE028 shall each not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dsf)).

D.2.3 Preventive Maintenance Plan [326 IAC 1-6-3]  
A Preventive Maintenance Plan is required for each of the pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028, and their associated control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]  
D.2.4 Record Keeping Requirements  
To document the compliance status with Condition D.2.1(3)(B), the Permittee shall maintain a record showing that each incinerator operator has reviewed the operation and maintenance plan annually. This record shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.
SECTION D.3  EMISIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(k) One (1) degreasing unit (where material is circulated back into container), identified as CLT333, constructed in 2013, with a maximum capacity of ten (10) gallons and maximum throughput of one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

Pursuant to 326 IAC 8-3-2 (Cold cleaner degreaser control equipment and operating requirements), the Permittee shall comply with the requirements of 326 IAC 8-3-8 for the degreasing operations (CLT333):

(a) The Permittee shall ensure the following control equipment and operating requirements are met:

   (1) equip the degreaser with a cover.
   (2) equip the degreaser with a device for draining cleaned parts.
   (3) close the degreaser cover whenever parts are not being handled in the degreaser.
   (4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
   (5) provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
   (6) store waste solvent only in closed containers.
   (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) 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:

   (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
      (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
      (B) A water cover when solvent used is insoluble in, and heavier than, water.
      (C) A refrigerated chiller.
(D) Carbon adsorption.

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

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

(3) If used, solvent spray:

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

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

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.3.3 Record Keeping Requirements

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

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

(2) The date of purchase (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 contains the Permittee's obligations with regard to the records required by this condition.
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>Jasper Engine Exchange, Inc. - Branch #50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>733 W. Division Road</td>
</tr>
<tr>
<td>City:</td>
<td>Jasper, Indiana 47546</td>
</tr>
<tr>
<td>Phone #:</td>
<td>812-482-1041</td>
</tr>
<tr>
<td>MSOP #:</td>
<td>M037-41778-00123</td>
</tr>
</tbody>
</table>

I hereby certify that Jasper Engine Exchange, Inc. - Branch #50 is:  
☐ still in operation.  
☐ no longer in operation.

I hereby certify that Jasper Engine Exchange, Inc. - Branch #50 is:  
☐ in compliance with the requirements of MSOP M037-41778-00123.  
☐ not in compliance with the requirements of MSOP M037-41778-00123.

Authorized Individual (typed):  

Title:  

Signature:  

Date:  

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:
This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.


THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _______ OR, PERMIT CONDITION # _______ AND/OR PERMIT LIMIT OF _______________.

THIS INCIDENT MEETS THE DEFINITION OF “MALFUNCTION” AS LISTED ON REVERSE SIDE? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT? Y N

COMPANY:_________________________________________________________PHONE NO. (      )___________________

LOCATION: (CITY AND COUNTY)_________________________________________________________________________

PERMIT NO. ________________ AFS PLANT ID: ________________ AFS POINT ID: ________________ INSP:__________

CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:________________________________________
_____________________________________________________________________________________________________

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____    _________________________________________ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION:________________________________________

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE______/______/ 20____   _______________ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:________________________________________

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION:________________________________________

MEASURES TAKEN TO MINIMIZE EMISSIONS:______________________________________________________________
___________________________________________________________________________________________________

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:

INTERIM CONTROL MEASURES: (IF APPLICABLE)

______________________________________________________________________________________________

MALFUNCTION REPORTED BY:__________________________________TITLE:___________________________
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_______________________DATE:__________________TIME:__________________

*SEE PAGE 2

PAGE 1 OF 2
Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 “Malfunction” definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

*Essential services are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

________________________________________________________________________
________________________________________________________________________
Indiana Department of Environmental Management  
Office of Air Quality  

Technical Support Document (TSD) for a  
Minor Source Operating Permit (MSOP) Renewal  

Source Description and Location

<table>
<thead>
<tr>
<th>Source Name:</th>
<th>Jasper Engine Exchange, Inc. - Branch #50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Location:</td>
<td>733 W. Division Road, Jasper, Indiana 47546</td>
</tr>
<tr>
<td>County:</td>
<td>Dubois</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>3621 (Motors and Generators)</td>
</tr>
<tr>
<td>Permit Renewal No.:</td>
<td>M037-41778-00123</td>
</tr>
<tr>
<td>Permit Reviewer:</td>
<td>L. David Cohen</td>
</tr>
</tbody>
</table>

On August 9, 2019, Jasper Engine Exchange, Inc. – Branch #50 submitted an application to the Office of Air Quality (OAQ) requesting to renew its operating permit. OAQ has reviewed the operating permit renewal application from Jasper Engine Exchange, Inc. relating to the operation of an existing electric motors and generators (non-auto related) repair plant. Jasper Engine Exchange, Inc. – Branch #50 was issued its first MSOP (M037-34751-00123) on December 12, 2014.

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. The term “major source” is defined at 326 IAC 2-7-1(22). In order for these plants to be considered one major source, they must meet all three of the following criteria:

1. the plants must be under common ownership or common control;
2. the plants must have the same two-digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for another; and,
3. the plants must be located on the same, contiguous or adjacent properties.

Branch #1 and Branch #50 are owned by Jasper Engines & Transmissions, Inc. Branch #53 and Branch #70 are owned by Jasper Reality, Inc. All four (4) plants have the same corporate officers and directors. IDEM’s Nonrule Policy Document Air-005 states that if two entities share common corporate officers, in whole or in substantial part, who are responsible for the day-to-day operations of the entities, common ownership exists. Since all four (4) plants have the same corporate officers and directors, common ownership exists. Since common ownership exists, the first criterion of the definition of “major source” is met.

The SIC Code Manual of 1987 sets out how to determine the proper SIC Code for each type of business. More information about SIC Codes is available at [http://www.osha.gov/pls/imis/sic_manual.html](http://www.osha.gov/pls/imis/sic_manual.html) on the Internet. Branch #1, Branch #53, and Branch #70 are motor vehicle parts and accessories remanufacturing plants. The principal two-digit SIC Code for Branch #1, Branch #53, and Branch #70 is 37, for the Major Group Transportation Equipment. Branch #50 is an electric motors and generators (non-auto related) repair plant. The principal two-digit SIC Code for Branch #50 is 36, for the Major Group Electronic And Other Electrical Equipment And Components, Except Computer Equipment.

A plant is a support facility to another plant if it dedicates 50% or more of its output to another plant. The four (4) branches do not supply support to each other, with one exception. Branch #1 sometimes
purchases repaired engine heads from Branch #53. This accounts for less than 20% of Branch #53’s total output and less than 5% of Branch #1’s total production. Therefore, there is no support relationship between any of the four (4) branches. However, since Branch #1, Branch #53, and Branch #70 have the same two-digit SIC Code they meet the second criterion of the major source definition. Branch #50 does not meet the second criterion of the major source definition with any of the other branches.

The last criterion of the major source definition is whether the plants are on the same, contiguous or adjacent properties. Branch #50 is located on property contiguous with Branch #1, separated only by a highway right-of-way, so Branch #50 meets the third part of the major source definition with Branch #1. Branch #50 is also located on property contiguous with Branch #53, so Branch #50 meets the third criterion of the major source definition with Branch #53.

No other plant is located on the same or contiguous properties. Therefore, IDEM, OAQ must determine if any of the plants are located on adjacent properties. The term “adjacent” is not defined in Indiana’s air permitting rules. IDEM, OAQ has located a May 21, 1988 letter from U.S. EPA Region VIII to the Utah Division of Air Quality regarding the term “adjacent”. This letter is in no way binding on IDEM, OAQ, but it is persuasive. Region VIII stated that any evaluation of what is “adjacent” must relate to the guiding principal of a common sense notion of “source”. The evaluation should look at whether the distance between the plants is sufficiently small that it enables them to operate as a single source. Some sample questions are:

1. Are materials routinely transferred between the plants?
2. Do managers or other workers frequently shuttle back and forth to be involved actively in the plants?
3. Is the production process itself split in any way between the plants?

The closest distance between Branch #70 and Branch #50 is approximately 0.4 miles. Branch #70 and Branch #50 each produce products for their own manufacture, sale, and distribution. Neither branch furnishes parts to the other. No managers or production workers shuttle between the plants. The production process is not split in any way between the plants. The only employees common to both plants are nonproduction security staff, grounds keeping service, and upper level management. Considering all of these factors, IDEM, OAQ finds that these two plants are not located on adjacent properties and do not meet the third criterion of the major source definition.

The closest distance between Branch #1 and Branch #70 is approximately 0.5 miles. Branch #1 and Branch #70 each produce products for their own manufacture, sale, and distribution. Neither branch furnishes parts to the other. No managers or production workers shuttle between the plants. The production process is not split in any way between the plants. The only employees common to both plants are nonproduction security staff, grounds keeping service, and upper level management. Considering all of these factors, IDEM, OAQ finds that these two plants are not located on adjacent properties and do not meet the third criterion of the major source definition.

The closest distance between Branch #1 and Branch #53 is approximately 600 feet. Branch #1 and Branch #53 each produce products for their own manufacture, sale, and distribution. Branch #1 sometimes purchases repaired engine heads from Branch #53. This accounts for less than 20% of Branch #53’s total output and less than 5% of Branch #1’s total production. In other words, only a small part of the production process is split between the plants. No managers or production workers shuttle between the plants. The only employees common to both plants are nonproduction security staff, grounds keeping service, and upper level management. Considering all of these factors, IDEM, OAQ finds that these two plants are located on adjacent properties, meeting the third criterion of the major source definition.

The closest distance between Branch #53 and Branch #70 is approximately 0.4 miles. Branch #53 and Branch #70 each produce products for their own manufacture, sale, and distribution. Neither branch furnishes parts to the other. No managers or production workers shuttle between the plants. The production process is not split in any way between the plants. The only employees common to both plants are nonproduction security staff, grounds keeping service, and upper level management.
Considering all of these factors, IDEM, OAQ finds that these two plants are not located on adjacent properties and do not meet the third criterion of the major source definition.

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 initially made under MSOP No. M037-34751-00123, issued on December 12, 2014.

### Existing Approvals

The source was issued MSOP No. M037-34751-00123 on December 12, 2014. There have been no subsequent approvals issued.

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

### Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

(a) One (1) totally enclosed pneumatic coal slag blaster, identified as BLA112, constructed in 2008, with a maximum capacity of four hundred (400) pounds per hour (lb/hr) and maximum density of one hundred fifty-six (156) pounds per cubic feet (lbs/ft³), using baghouse DUC112 as control, and exhausting to stack DUC112.

(b) One (1) high volume low pressure (HVLP) spray application spray booth, identified as PTB016, constructed in 2012, with a maximum capacity of two (2) units per hour and five-hundredths (0.05) gallons of coating per unit, using dry filters for overspray control, and exhausting to stack PTB016.

(c) One (1) high volume low pressure (HVLP) spray application spray booth, identified as PTB017, constructed in 2013, with a maximum capacity of four (4) units per hour and three-hundredths (0.03) gallons of coating per unit, using dry filters for overspray control, and exhausting to stack PTB017.

(d) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE023, constructed in 2013, with a maximum throughput of seventy-five (75) pounds of equipment and one hundred twenty (120) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of five-tenths (0.5) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE023.

(e) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE026, constructed in 2013, with a maximum throughput of one thousand (1,000) pounds of equipment and one thousand two hundred twenty-five (1,225) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of nine-tenths (0.9) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE026.

(f) One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE027, constructed in 2013, with a maximum throughput of five hundred (500) pounds of equipment and ninety-four (94) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of four-tenths (0.4) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE027.
One (1) natural gas-controlled pyrolysis cleaning furnace, identified as OVE028, constructed in 2013, with a maximum throughput of five hundred (500) pounds of equipment and three hundred twenty (320) pounds of combustible material per eight (8) hour cycle, and with a total maximum heat input capacity of seven-tenths (0.7) million British thermal units per hour (MMBtu/hr), using a natural gas afterburner as control, and exhausting to stack OVE028.

One (1) degreasing unit without a remote solvent reservoir, identified as CLT314, constructed in 2013, with a maximum capacity of thirty-six (36) gallons twenty (20) gallons and maximum throughput of two thousand four hundred (2,400) gallons two hundred forty (240) gallons per year, using no control, and exhausting indoors.

One (1) coating operation for application of rust-preventative coating, identified as CLT159, constructed in 2013, with a maximum capacity of one hundred twenty (120) gallons and maximum throughput of four thousand two hundred (4,200) gallons fifty-five (55) gallons per year, using no control, and exhausting indoors.

One (1) degreasing unit (where material is circulated back into container), identified as CLT333, constructed in 2013, with a maximum capacity of ten (10) gallons and maximum throughput of five hundred (550) gallons one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

One (1) Vacuum Pressure Impregnation (VPI) system, identified as PEQ-226, constructed in 2013, with a maximum throughput of six hundred sixty (660) gallons per year, using no control, and exhausting indoors.

One (1) solvent-less polyester resin tank, identified as TAN157, constructed in 2013, with a maximum capacity of sixty-four (64) gallons one hundred twenty (120) gallons and maximum throughput of two thousand five hundred sixty (2,560) gallons one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

As part of this permitting action, the source requested to add the following existing emission unit(s) constructed under the provisions of 326 IAC 2-1.1-3 (Exemptions):

One (1) solvent-less polyester resin tank, identified as TAN207, constructed in 2019, with a maximum capacity of one hundred twenty (120) gallons and maximum throughput of one hundred twenty (120) gallons per year, using no control, and exhausting indoors.

One (1) degreasing unit without a remote solvent reservoir, identified as CLT315, constructed in 2019, with a maximum capacity of fifty (50) gallons and maximum throughput of six hundred (600) gallons per year, using no control, and exhausting indoors.

Three (3) metal inert gas (MIG) welding stations, identified as WEL148, WEL151 and WEL201, constructed in 2019, with a maximum capacity to consume nine (9) pounds of welding wire per hour, using no control, and exhausting indoors.

One (1) tungsten inert gas (TIG) welding station, identified as WEL150, constructed in 2019, with a maximum capacity of three-tenths (0.03) pounds per hour of electrode, using no control, and exhausting indoors.

The total potential to emit of the emission unit(s) is less than levels specified at 326 IAC 2-1.1-3(e)(1)(A) through (G) and the addition of the emission unit(s) did not require the source to transition to a higher operation permit level. Therefore, pursuant to 326 IAC 2-1.1-3(e), 326 IAC 2-6.1-6, including the
requirement to submit an application, do not apply to the emission unit(s). See Appendix A of this Technical Support Document for detailed emission calculations.

In addition, the potential to emit of pollutants from the paint booths PTB016 and PTB017 have been updated based on new paints used at these booths.

### Enforcement Issue

There are no enforcement actions pending.

### Emission Calculations

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

### County Attainment Status

The source is located in Dubois County.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO₂</td>
<td>Better than national standards.</td>
</tr>
<tr>
<td>CO</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
</tr>
<tr>
<td>O₃</td>
<td>Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.¹</td>
</tr>
<tr>
<td>PM₂.₅</td>
<td>Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM₂.₅ standard.</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>Unclassifiable effective November 15, 1990.</td>
</tr>
<tr>
<td>NO₂</td>
<td>Unclassifiable or attainment effective January 29, 2012, for the 2010 NO₂ standard.</td>
</tr>
<tr>
<td>Pb</td>
<td>Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.</td>
</tr>
</tbody>
</table>

¹Unclassifiable 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 (NOₓ) 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 NOₓ 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 NOₓ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) **PM₂.₅**

Dubois County has been classified as attainment for PM₂.₅. Therefore, direct PM₂.₅, SO₂, 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, Emission Offset, and Part 70 Permit applicability.

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

The fugitive emissions of criteria pollutants and hazardous air pollutants (HAP) are counted toward the determination of MSOP (326 IAC 2-6.1) applicability and source status under Section 112 of the Clean Air Act (CAA).

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**Greenhouse Gas (GHG) Emissions**

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

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

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### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

<table>
<thead>
<tr>
<th>Unrestricted Potential Emissions (ton/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM¹</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>Total PTE of Entire Source Excluding Fugitive Emissions*</td>
</tr>
<tr>
<td>Title V Major Source Thresholds</td>
</tr>
<tr>
<td>MSOP Thresholds</td>
</tr>
</tbody>
</table>

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

²PM₂.₅ listed is direct PM₂.₅.

³Single highest source-wide HAP.

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

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

(a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of all regulated pollutants is less than 100 tons per year. However, PM, PM₁₀, PM₂.₅, SO₂, VOC and CO are each equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. The source will be issued an MSOP Renewal.

(b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of
HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7. The source will be issued an MSOP Renewal.

### Potential to Emit After Issuance

The table below summarizes the uncontrolled/unlimited potential to emit of the entire source. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

<table>
<thead>
<tr>
<th>Potential To Emit of the Entire Source After Issuance of Renewal (tons/year) (Uncontrolled/Unlimited)</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}$</th>
<th>SO$_2$</th>
<th>NO$_x$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total PTE of Entire Source Excluding Fugitive Emissions*</td>
<td>53.76</td>
<td>53.82</td>
<td>53.82</td>
<td>30.49</td>
<td>4.23</td>
<td>96.49</td>
<td>48.38</td>
<td>1.67 (Toluene)</td>
<td>3.40</td>
</tr>
<tr>
<td>Title V Major Source Thresholds</td>
<td>--</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>10</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>MSOP Thresholds</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>&lt; 100</td>
<td>&lt; 10</td>
<td>&lt; 25</td>
<td></td>
</tr>
<tr>
<td>PSD Major Source Thresholds</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

1Under the Part 70 Permit program (40 CFR 70), PM$_{10}$ and PM$_{2.5}$, not particulate matter (PM), are each considered as a "regulated air pollutant."

2PM$_{2.5}$ listed is direct PM$_{2.5}$.

3Single highest source-wide HAP

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

Appendix A of this TSD reflects the detailed unlimited/uncontrolled emissions of the source.

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).

(b) This existing source is not a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

### Federal Rule Applicability

Federal rule applicability for this source 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 this source, because each of the natural gas-controlled pyrolysis cleaning furnaces is not considered an incinerator as defined at §60.51. The pyrolysis cleaning furnaces will not becombusting refuse, more than 50 percent of which is municipal type waste consisting of a mixture of paper, wood, yard wastes, food wastes, plastics, leather, rubber, and other combustibles, and noncombustible materials such as glass and rock. The pyrolysis cleaning furnaces are used to remove cured varnish from electric motor wiring.

(b) The requirements of the New Source Performance Standard for Large Municipal Waste Combustors for Which Construction is Commenced after December 20, 1989 and on or before
September 20, 1994, 40 CFR 60, Subpart Ea and 326 IAC 12, are not included in the permit for this source, because the furnaces are not considered municipal waste combustors as defined 40 CFR 60.51a, since they do not combust municipal waste.

(c) The requirements of the New Source Performance Standard for Large Municipal Waste Combustors for Which Construction is Commenced after September 20, 1994, or for Which Modification or Reconstruction is commenced after June 19, 1996, 40 CFR 60, Subpart Eb and 326 IAC 12, are not included in the permit for this source, because the furnaces do not combust municipal waste.

(d) The requirements of the New Source Performance Standard for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced after January 20, 1996, 40 CFR 60, Subpart Ec and 326 IAC 12, are not included in the permit for this source, because each of these units is not considered a hospital/medical/infectious waste incinerator.

(e) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 19, 1978 and Prior to May 19, 1978, 40 CFR 60, Subpart K and 326 IAC 12, are not included in the permit for this source, because construction of the solventless polyester resin tank commenced after May 19, 1978 and has a capacity of less than forty thousand (40,000) gallons as defined in §60.110(a).

(f) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 and Prior to July 23, 1984, 40 CFR 60, Subpart Ka and 326 IAC 12, are not included in the permit for this source, because construction of the solventless polyester resin tank commenced after July 23, 1984 and has a capacity of less than forty thousand (40,000) gallons as defined in §60.110(a)(a).

(g) The requirements of the New Source Performance Standard for Volatile Organic Liquid Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, 40 CFR 60, Subpart Kb and 326 IAC 12, are not included in the permit for this source, because the solventless polyester resin tank has a capacity of less than nineteen thousand eight hundred (19,800) gallons as defined in §60.110b(a).

(h) The requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60, Subpart EE and 326 IAC 12, are not included in the permit for this source, because this source does not coat metal furniture as described in §60.310(a).

(i) The requirements of the New Source Performance Standard for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR 60, Subpart MM and 326 IAC 12, are not included in the permit for this source, because this source does not coat automobiles or light duty trucks as described in §60.390(a).

(j) The requirements of the New Source Performance Standard for Industrial Surface Coating: Large Appliances, 40 CFR 60, Subpart SS and 326 IAC 12, are not included in the permit for this source, because this source does not coat large appliances as described in §60.450(a).

(k) The requirements of the New Source Performance Standard for Metal Coil Surface Coating, 40 CFR 60, Subpart TT and 326 IAC 12, are not included in the permit for this source, because this source does not coat metal coils as described in §60.460(a).

(l) The requirements of the New Source Performance Standard for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines, 40 CFR 60, Subpart TTT and 326 IAC 12, are not included in the permit for this source, because this source does not coat plastic parts for business machines as defined in §60.721(a).
The requirements of the New Source Performance Standard for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999 or for Which Modification or Reconstruction is Commenced After June 6, 2001, 40 CFR 60, Subpart AAAA and 326 IAC 12, are not included in the permit for this source, because the pyrolysis cleaning furnaces are not considered municipal waste combustion units as defined 40 CFR 60.1465 since they do not combust municipal waste.

The requirements of the New Source Performance Standard for Commercial and Industrial Solid Waste Incinerations Units for Which Construction is Commenced After November 30, 1999 or for Which Modification or Reconstruction is Commenced on or After June 1, 2001, 40 CFR 60, Subpart CCCC and 326 IAC 12, are not included in the permit for this source, because pyrolysis cleaning furnaces are not considered commercial and industrial solid waste incineration (CISWI) units as defined by 40 CFR 60.2265, since the furnaces do not combust commercial or industrial waste.

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 this source, because the pyrolysis cleaning furnaces were not constructed after December 9, 2004, were not modified or reconstructed after June 16, 2006, and are not considered other solid waste incineration (OSWI) units as defined by 40 CFR 60.2977, since the furnaces do not combust municipal solid waste or institutional waste.

There are no New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T and 326 IAC 20-6 are not included in the permit for this source, since the degreasing operations do not use solvents containing methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichloroethylene (CAS No. 79-01-6), 1,1,1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3), or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent.

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Hazardous Waste Combustors, 40 CFR 63, Subpart EEE and 326 IAC 20-28 are not included in the permit for this source, since these units do not burn hazardous waste as defined in 40 CFR 63.1201.

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Automobiles and Light-Duty Trucks, 40 CFR 63, Subpart IIII and 326 IAC 20-85 are not included in the permit for this source, since this source does not coat new automobile or new light-duty truck bodies or body parts for new automobiles or new light-duty trucks and is not located at a plant site that is a major source of HAPs as defined in 40 CFR Part 63, Subpart A, §63.2.

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM and 326 IAC 20-80 are not included in the permit for this source, since this source does not coat new large appliances and is not located at a plant site that is a major source of HAPs as defined in 40 CFR Part 63, Subpart A, §63.2.
(f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Plastic Parts and Products, 40 CFR 63, Subpart PPPP and 326 IAC 20-81 are not included in the permit for this source, since this source is not a major source of HAPs as defined in 40 CFR Part 63, Subpart A, §63.2.

(g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Metal Furniture, 40 CFR 63, Subpart RRRR and 326 IAC 20-78 are not included in the permit for this source, since this source does not coat metal furniture and is not located at a plant site that is a major source of HAPs as defined in 40 CFR Part 63, Subpart A, §63.2.

(h) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Metal Coil, 40 CFR 63, Subpart SSSS and 326 IAC 20-64 are not included in the permit for this source, since this source does not coat metal coil and is not located at a plant site that is a major source of HAPs as defined in 40 CFR Part 63, Subpart A, §63.2.

(i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH are not included in the permit for this source, since the source does not have paint stripping operations that involve the use of chemical strippers that contain methylene chloride (MeCl) in paint removal processes, the source does not have auto body refinishing operations, and the source does not spray apply coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), collectively referred to as the target HAP to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles or mobile equipment.

(j) There are no National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included in the permit.

**Compliance Assurance Monitoring (CAM):**

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

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**State Rule Applicability - Entire Source**

State rule applicability for this source has been reviewed as follows:

326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Potential to Emit After Issuance section of this document.

326 IAC 2-2 (PSD)
PSD applicability is discussed under the Potential to Emit After Issuance section of this document.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The provisions of 326 IAC 2-4.1 apply to any owner or operator who constructs or reconstructs a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.41, after July 27, 1997, unless the major source has been specifically regulated under or exempted from regulation under a NESHAP that was issued pursuant to Section 112(d), 112(h), or 112(j) of the Clean Air Act (CAA) and incorporated under 40 CFR 63. On and after June 29, 1998, 326 IAC 2-4.1 is intended to implement the requirements of Section 112(g)(2)(B) of the Clean Air Act (CAA).

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

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

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

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

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

State Rule Applicability – Individual Facilities

State rule applicability has been reviewed as follows:

Blasting

326 IAC 6.5 (PM Limitations Except Lake County)
This source is subject to 326 IAC 6.5-1-2, since this source is located in Dubois County, this source is not specifically listed in 326 IAC 6.5-2 through 326 IAC, and this source has the potential to emit ten (10) tons or more of particulate matter per year. Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from the blasting operation (BLA112) and the machining and grinding operation exhausting to baghouse, DUC088, shall each not exceed 0.03 grains per dry standard cubic foot.

Based on the PM emission rates and the flow rates specified in the table below, PM emissions from the blasting operation (BLA112) and the machining and grinding operation exhausting to baghouse DUC088 have the following grain loading emission rates before and after control:

<table>
<thead>
<tr>
<th>Control Device ID</th>
<th>Unit IDs</th>
<th>Unit Descriptions</th>
<th>Flowrate (acfm)</th>
<th>Potential Grain Loading Before Control (grain/dscf)</th>
<th>Potential Grain Loading After Control (grain/dscf)</th>
<th>326 IAC 6.5-1-2 Limit (grains/dscf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUC112</td>
<td>BLA112</td>
<td>coal slag blast unit</td>
<td>900</td>
<td>0.52</td>
<td>0.01</td>
<td>0.03</td>
</tr>
<tr>
<td>DUC088</td>
<td></td>
<td>machining and grinding</td>
<td>4,500</td>
<td>0.06</td>
<td>6.40E-04</td>
<td>0.03</td>
</tr>
</tbody>
</table>

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from BLA112 and the machining and grinding operation shall each not exceed nine-hundredths (0.09) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)). In order to comply with this limit, the baghouses for particulate control (DUC112 and DUC088) shall be in operation and control emissions from BLA112 and the machining and grinding operation, respectively, at all times that BLA112 and the machining and grinding operation are in operation.

Surface Coating
**326 IAC 6.5-1-2 (PM Limitations Except Lake County)**

This source is subject to 326 IAC 6.5-1-2, since this source is located in Dubois County, this source is not specifically listed in 326 IAC 6.5-2 through 326 IAC, and this source has the potential to emit ten (10) tons or more of particulate matter per year. However, pursuant to 326 IAC 6.5-1(c)(5), the spray booths (PTB016 and PTB017) are each not subject to the requirements of 326 IAC 6.5-1-2, since each booth has a potential paint usage of less than 5 gallons per day.

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

Even though, the two (2) surface coating booths, identified as PTB016 and PTB017, were each constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because their unlimited VOC potential emissions are each less than twenty-five (25) tons per year.

**326 IAC 8-2-9 (Miscellaneous Metal and Plastic Parts Coating Operations)**

Pursuant to 326 IAC 8-2-1(a)(4) the two (2) surface coating booths, identified as PTB016 and PTB017, are each not subject to the requirements of 326 IAC 8-2-9 because they do not have potential emissions of greater than fifteen (15) pounds of VOC per day before add-on controls.

**Furnaces**

**326 IAC 4-2 (Incinerators)**

Each of the four (4) controlled pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028, used to remove cured varnish from electric motor wiring, is subject to the requirements of 326 IAC 4-2-2, because each meets the definition of incinerator in 326 IAC 1-2-34 and is 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 furnaces 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 cleaning furnaces 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 furnaces, electric motors are heated for a specified time and at a specified temperature to the point where the cured varnish on the electric motor wiring 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 furnaces at this source, IDEM OAQ has determined that the cured varnishes being removed from the electric motor wiring 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".

Pursuant to 326 IAC 4-2-2 (Incinerators), the Permittee shall comply with the following for the pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028:

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.

326 IAC 6.5-1-2 (Particulate Emission limitations)
This source is subject to 326 IAC 6.5-1-2, since this source is located in Dubois County, this source is not specifically listed in 326 IAC 6.5-2 through 326 IAC, and this source has the potential to emit ten (10) tons or more of particulate matter per year. Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from each of the four (4) controlled pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028, shall each not exceed 0.03 grains per dry standard cubic foot.
326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
The four (4) controlled pyrolysis cleaning furnaces, identified as OVE023, OVE026, OVE027 and OVE028, are each not subject to 326 IAC 7-1.1 because they each have a potential to emit (or limited potential to emit) sulfur dioxide (SO2) of less than 25 tons per year or 10 pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Even though, the four (4) controlled pyrolysis cleaning furnaces, identified as OVE023, OVE026, OVE027 and OVE028, were each constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because their unlimited VOC potential emissions are each less than twenty-five (25) tons per year.

326 IAC 9-1 (Carbon Monoxide Emission Limits)
The requirements of 326 IAC 9-1 do not apply to the four (4) controlled pyrolysis cleaning furnaces, identified as OVE023, OVE026, OVE027 and OVE028, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

326 IAC 11-6 (Hospital/Medical/Infectious Waste Incinerators)
Pursuant to 326 IAC 11-6, each of the four (4) controlled pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028, is not subject to the requirements of 326 IAC 11-6, because each is not a hospital/medical/ infectious waste incinerator.

326 IAC 11-7 (Emission Limitations for Municipal Waste Combustors)
Pursuant to 326 IAC 11-7, each of the four (4) controlled pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028, is not subject to the requirements of 326 IAC 11-7, since each is not a municipal waste combustor and is exempted from this rule under 326 IAC 11-7-1(b)(4). Pursuant to 326 IAC 11-7-1(b)(4), any materials recovery facility that combusts waste for the primary purpose of recovering metals is exempt from 326 IAC 11-7.

326 IAC 11-8 (Commercial and Industrial Solid Waste Incineration Units)
Pursuant to 326 IAC 11-8, each of the four (4) controlled pyrolysis cleaning furnaces, OVE023, OVE026, OVE027, and OVE028, is not subject to the requirements of 326 IAC 11-8, because each is not considered a commercial and industrial solid waste incineration (CISWI) unit as defined 40 CFR 60.2875 and is exempted from this rule under 326 IAC 11-8-1(b)(8). Pursuant to 326 IAC 11-8-1(b)(8), any materials recovery facility that combusts waste for the primary purpose of recovering metals is exempt from 326 IAC 11-8.

Pursuant to the definitions under 40 CFR 60.2875, a commercial and industrial solid waste incineration (CISWI) unit does not include any of the fifteen types of units described in 40 CFR 60.2555. Pursuant to 40 CFR 60.2555(h), materials recovery units that combust waste for the primary purpose of recovering metals are not considered commercial and industrial solid waste incineration (CISWI) units.

Degreasing

326 IAC 8-3 (Organic Solvent Degreasing Operations)
Pursuant to 326 IAC 8-3-1:

(1) The requirements of 326 IAC 8-3-2(a) apply to degreasers constructed on or before January 1, 1980, that are located at sources that have potential emissions of 100 tons or greater per year of VOC, and degreasers constructed after January 1, 1980, located anywhere in the state.

(2) The requirements of 326 IAC 8-3-2 apply to degreasers constructed after July 1, 1990, which do not have a remote solvent reservoir.

(3) The requirements of 326 IAC 8-3-8 apply to any source that uses solvent for use in cold cleaner degreasers on and after January 1, 2015, anywhere in the state.
The Permittee shall comply with the requirements of 326 IAC 8-3-8 for all of the degreasers at this source on and after January 1, 2015.

The degreasing operation, identified as CLT333, is subject to the requirements of 326 IAC 8-3-2, since it was constructed after January 1, 1980, located anywhere in the state, and does not have a remote solvent reservoir.

The two (2) units, identified as CLT314 and CLT315, are not subject to the requirements of 326 IAC 8-3-2, since they utilize a solvent that does not contain VOCs.

Pursuant to 326 IAC 8-3-2(a) (Cold Cleaner Degreaser Operation), the owner or operator of a cold cleaner degreaser shall ensure the following control equipment and operating requirements are met for all of the degreasers at this source:

(a) Equip the degreaser with a cover.

(b) Equip the degreaser with a device 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 operating requirements in subdivisions (c), (d), (f), and (g).

(f) Store waste solvent only in closed containers.

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

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

The one (1) degreasing unit, identified as CLT159, is not subject to the requirements of 326 IAC 8-3-8, since the solvent is used to apply a rust preventative and is considered surface coating.

The two (2) units, identified as CLT314 and CLT315, are not subject to the requirements of 326 IAC 8-3-28, since they utilize a solid solvent that does not contain VOCs.

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

Pursuant to 326 IAC 8-2-1(a) the unit CLT159, is not subject to the requirements of 326 IAC 8-2-9 because it emits less than fifteen (15) pounds of VOC per day.

Vacuum Pressure Impregnation (VPI) System

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

Even though, this unit was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions are less than twenty-five (25) tons per year.

Welding

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

Pursuant to 326 IAC 6-3-1(b)(9), the three (3) metal inert gas (MIG) welders and one (1) tungsten inert gas (TIG) welders are each not subject to the requirements of 326 IAC 6-3, since the maximum electrode consumption per welding unit is less than six hundred twenty-five (625) pounds per day.
Compliance Determination and Monitoring Requirements

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

(1) The afterburners for particulate control and carbon monoxide control shall be in operation and control emissions from the controlled pyrolysis cleaning furnaces (OVE023, OVE026, OVE027, and OVE028) at all times the controlled pyrolysis cleaning furnaces are in operation.

(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:

<table>
<thead>
<tr>
<th>Baghouse ID</th>
<th>Emission Unit IDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUC112</td>
<td>BLA112</td>
</tr>
<tr>
<td>DUC088</td>
<td>machining and grinding operations</td>
</tr>
</tbody>
</table>

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 8, 2019.

The operation of this existing electric motors and generators (non-auto related) repair plant shall be subject to the conditions of the attached proposed MSOP Renewal No. M037-41778-00123.

The staff recommends to the Commissioner that the MSOP Renewal be approved.

IDEM Contact

(a) If you have any questions regarding this permit, please contact L. David Cohen, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 233-0178 or (800) 451-6027, and ask for L. David Cohen or (317) 233-9327.

(b) A copy of the findings is available on the Internet at: [http://www.in.gov/ai/appfiles/idem-caats/](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](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](http://www.in.gov/idem/6900.htm).
**Appendix A: Emissions Calculations**

**Emissions Summary**

**Company Name:** Jasper Engine Exchange, Inc. - Branch #50  
**Source Address:** 733 W. Division Road, Jasper, Indiana 47546  
**Permit Renewal No.:** M037-41778-00123  
**Reviewer:** L. David Cohen

### Uncontrolled Potential to Emit

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>Highest Single HAP (toluene)</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Coating</td>
<td>1.45</td>
<td>1.45</td>
<td>1.45</td>
<td>-</td>
<td>-</td>
<td>4.75</td>
<td>-</td>
<td>1.67</td>
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<tr>
<td>Blasting</td>
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<td>Furnaces</td>
<td>23.30</td>
<td>23.30</td>
<td>23.30</td>
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<td>87.60</td>
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<tr>
<td>Natural Gas Combustion</td>
<td>0.02</td>
<td>0.08</td>
<td>0.08</td>
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<tr>
<td>Degreasing</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.42</td>
<td>-</td>
<td>4.26E-05</td>
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<td>VPI System</td>
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<td>-</td>
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<td>-</td>
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<td><strong>Total</strong></td>
<td>53.76</td>
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<td>96.49</td>
<td>48.38</td>
<td>1.67</td>
<td>3.40</td>
</tr>
</tbody>
</table>
### Appendix A: Emission Calculations

#### Surface Coating

**PTE PM and VOC**

<table>
<thead>
<tr>
<th>Paint Booth material as applied</th>
<th>Density (lbs/gal)</th>
<th>Volatile Water + Organic Exempt</th>
<th>Volatile Water</th>
<th>Non-Volatile (Solids)</th>
<th>Gal of Mat (gal/unit)</th>
<th>Maximum (unit/hr)</th>
<th>Pounds VOC per gallon of coating less water</th>
<th>pounds of VOC per gallon of coating</th>
<th>Potential VOC pounds per hour</th>
<th>Potential VOC pounds per day</th>
<th>Potential VOC tons per year</th>
<th>Particulate Potential (ton/yr)</th>
<th>PM Control Efficiency</th>
<th>Controlled Particulate (ton/yr)</th>
<th>b VOC/gal solids</th>
<th>Transfer Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PTB016</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>quick dry enamel machine tool gray (F77A)</td>
<td>7.88</td>
<td>61.86%</td>
<td>0%</td>
<td>61.70%</td>
<td>0%</td>
<td>30.00%</td>
<td>0.05</td>
<td>2</td>
<td>2.40</td>
<td>4.9</td>
<td>4.66</td>
<td>0.49</td>
<td>11.67</td>
<td>2.13</td>
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<td>85%</td>
</tr>
<tr>
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<td>7.68</td>
<td>64.10%</td>
<td>0%</td>
<td>64.10%</td>
<td>0%</td>
<td>29.10%</td>
<td>0.05</td>
<td>2</td>
<td>2.40</td>
<td>4.9</td>
<td>4.92</td>
<td>0.49</td>
<td>11.81</td>
<td>2.16</td>
<td>0.60</td>
<td>85%</td>
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<tr>
<td>quick dry enamel gloss black (F77B1)</td>
<td>7.51</td>
<td>66.60%</td>
<td>0%</td>
<td>66.60%</td>
<td>0%</td>
<td>27.60%</td>
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<td>2.19</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>61.86%</td>
<td>0%</td>
<td>61.86%</td>
<td>0%</td>
<td>30.00%</td>
<td>0.03</td>
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<td>64.10%</td>
<td>0%</td>
<td>64.10%</td>
<td>0%</td>
<td>29.10%</td>
<td>0.05</td>
<td>2</td>
<td>2.40</td>
<td>4.9</td>
<td>4.92</td>
<td>0.49</td>
<td>11.81</td>
<td>2.16</td>
<td>0.60</td>
<td>85%</td>
</tr>
<tr>
<td>quick dry enamel gloss black (F77B1)</td>
<td>7.51</td>
<td>66.60%</td>
<td>0%</td>
<td>66.60%</td>
<td>0%</td>
<td>27.60%</td>
<td>0.05</td>
<td>2</td>
<td>2.40</td>
<td>5.0</td>
<td>5.00</td>
<td>0.50</td>
<td>12.00</td>
<td>2.19</td>
<td>0.55</td>
<td>85%</td>
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<tr>
<td><strong>Worst Case Usage</strong></td>
<td>0.05</td>
<td>4.00</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td><strong>Total Worst Case Uncontrolled Potential Emissions:</strong></td>
<td></td>
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<td></td>
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**PTE HAPs**

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<thead>
<tr>
<th>Paint Booth material as applied</th>
<th>Density (lbs/gal)</th>
<th>Volatile Water + Organic Exempt</th>
<th>Volatile Water</th>
<th>Non-Volatile (Solids)</th>
<th>Gal of Mat (gal/unit)</th>
<th>Maximum (unit/hr)</th>
<th>Weight % % toluene</th>
<th>Weight % ethylbenzene</th>
<th>Weight % xylene</th>
<th>Weight % naphthalene</th>
<th>toluene (tons/yr)</th>
<th>ethylbenzene (tons/yr)</th>
<th>xylene (tons/yr)</th>
<th>naphthalene (tons/yr)</th>
<th>Total</th>
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<tbody>
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<td><strong>PTB016</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>quick dry enamel machine tool gray (F77A)</td>
<td>7.88</td>
<td>0.05</td>
<td>2</td>
<td>32%</td>
<td>3%</td>
<td>17%</td>
<td>0.1</td>
<td>0.16</td>
<td>0.10</td>
<td>0.59</td>
<td>3.425e-03</td>
<td>1.48</td>
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<tr>
<td>quick dry enamel motor blue (F77B)</td>
<td>7.68</td>
<td>0.05</td>
<td>2</td>
<td>32%</td>
<td>3%</td>
<td>19%</td>
<td>0.1</td>
<td>0.14</td>
<td>0.10</td>
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<td>3.362e-03</td>
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<td>0.05</td>
<td>2</td>
<td>31%</td>
<td>3%</td>
<td>18%</td>
<td>0.1</td>
<td>0.09</td>
<td>0.10</td>
<td>0.59</td>
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<td>0.64</td>
<td>0.00</td>
<td>1.31</td>
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<td></td>
</tr>
<tr>
<td>quick dry enamel machine tool gray (F77A)</td>
<td>7.88</td>
<td>0.03</td>
<td>4</td>
<td>22%</td>
<td>3%</td>
<td>17%</td>
<td>0.1</td>
<td>0.91</td>
<td>0.12</td>
<td>0.75</td>
<td>4.146e-03</td>
<td>1.74</td>
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<td>7.68</td>
<td>0.03</td>
<td>4</td>
<td>22%</td>
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<tr>
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<td>0.03</td>
<td>4</td>
<td>31%</td>
<td>3%</td>
<td>18%</td>
<td>0.1</td>
<td>0.83</td>
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<td>0.91</td>
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<td>0.00</td>
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<td>1.87</td>
<td>0.23</td>
<td>1.41</td>
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</tbody>
</table>

**Methodology**

- **Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * (Weight % Organics) / (1 - Volume % water))**
- **Pounds of VOC per Gallon Coating = (Density (lbs/gal)) * (Weight % Organics)**
- **Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (unit/hr)**
- **Potential VOC Control Effi ciency = 1 - Control Efficiency**
- **Potential VOC Pounds per Day = Potential VOC Pounds per Hour * 24 (hrs/day)**
- **Potential VOC Tons per Year = Potential VOC Pounds per Day / 2000 lbs**
- **Particulate Potential Tons per Year = (uncontrolled usage) * (gal/unit/hr) * (lbs/gal) * (1 - Efficiency) / (8760 hrs/yr) / 1 ton/2000 lbs**
- **Particulate Potential Tons per Year = Particulate Potential Tons per Hour / 24 (hrs/day)**

**Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)**

**HAPs PTE (tons/yr) = Density (lbs/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr / 1 ton/2000 lbs**
### Appendix A: Emission Calculations

#### Blasting

**Company Name:** Jasper Engine Exchange, Inc. - Branch #50  
**Source Address:** 733 W. Division Road, Jasper, Indiana 47546  
**Permit Renewal No.:** M037-41778-00123  
**Reviewer:** L. David Cohen

**Unit Descriptions**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Unit ID</th>
<th>Control Efficiency</th>
<th>Uncontrolled Emissions</th>
<th>Controlled Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machining and grinding</td>
<td>DUC088</td>
<td>99.00%</td>
<td>10.81</td>
<td>2.47</td>
</tr>
</tbody>
</table>

**Total** 28.33 PM/PM10/PM2.5 (tons/year)

#### Methodology

**Blast Rate (lb/hr)** was provided by the applicant.


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)

#### Methodology

Potential Grain Loading Before Control (grain/dscf) = Uncontrolled PM PTE (tons/yr) * (2000 lbs/ton) * (1 yr / 8760 hrs) * (1 / flow rate in acfm) * (1 hr / 60 min) * (7000 grains/lb)

Potential Grain Loading After Control (grain/dscf) = Controlled PM PTE (tons/yr) * (2000 lbs/ton) * (1 yr / 8760 hrs) * (1 / flow rate in acfm) * (1 hr / 60 min) * (7000 grains/lb)
Appendix A: Emission Calculations

Cleaning Furnaces

Company Name: Jasper Engine Exchange, Inc. - Branch #50
Source Address: 733 W. Division Road, Jasper, Indiana 47546
Permit Renewal No.: M037-41778-00123
Reviewer: L. David Cohen

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

Pursuant to 326 IAC 6.5-1-2(a), particulate matter emissions from OVE023, OVE026, OVE027, and OVE028 shall each not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)). In order to comply with this limit, the natural gas afterburners shall be in operation and control emissions from OVE023, OVE026, OVE027, and OVE028, respectively, at all times that OVE023, OVE026, OVE027, and OVE028 are in operation.

Methodology

Potential Grain Loading Before Control (grain/dscf) = Uncontrolled PM PTE (tons)/yr * 7000 grains/lb
Potential Grain Loading After Control (grain/dscf) = Controlled PM PTE (tons)/yr * 7000 grains/lb
### Appendix A: Emissions Calculations

**Natural Gas Combustion Only**

**Emission Unit** | **MM BTU/hr**  
--- | ---  
OVE023 | 0.5  
OVE026 | 0.9  
OVE027 | 0.4  
OVE028 | 0.7

**Company Name:** Jasper Engine Exchange, Inc. - Branch #50  
**Source Address:** 733 W. Division Road, Jasper, Indiana 47546  
**Permit Renewal No.:** M037-41778-00123  
**Reviewer:** L. David Cohen

#### Natural Gas Combustion Only

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>MM BTU/hr</th>
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</thead>
<tbody>
<tr>
<td>OVE023</td>
<td>0.5</td>
</tr>
<tr>
<td>OVE026</td>
<td>0.9</td>
</tr>
<tr>
<td>OVE027</td>
<td>0.4</td>
</tr>
<tr>
<td>OVE028</td>
<td>0.7</td>
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<table>
<thead>
<tr>
<th>Total</th>
<th>HHV</th>
<th>Potential Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MM BTU/hr</td>
</tr>
<tr>
<td>2.5</td>
<td>1020</td>
<td>21.5</td>
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</table>

**Pollutant**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/MMCF</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM*</td>
<td>1.9</td>
<td>0.02</td>
</tr>
<tr>
<td>PM10*</td>
<td>7.6</td>
<td>0.06</td>
</tr>
<tr>
<td>direct PM2.5*</td>
<td>7.6</td>
<td>0.06</td>
</tr>
<tr>
<td>SO2</td>
<td>0.6</td>
<td>1.07</td>
</tr>
<tr>
<td>NOx</td>
<td>100</td>
<td>5.5</td>
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<tr>
<td>VOC</td>
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</table>

**Methodology**

All emission factors are based on normal firing.

**MMBtu = 1,000,000 Btu**  
**MMCF = 1,000,000 Cubic Feet of Gas**

Potential Throughput (MMCF) = Heat Input Capacity (MM BTU/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

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

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

**HAPs Calculations**

#### HAPs - Organics

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/MMCF</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>2.1E-03</td>
<td>2.3E-05</td>
</tr>
<tr>
<td>Dichlorobenzene</td>
<td>1.2E-03</td>
<td>1.3E-05</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>7.5E-02</td>
<td>7.1E-04</td>
</tr>
<tr>
<td>Hexane</td>
<td>1.8E+00</td>
<td>1.9E-02</td>
</tr>
<tr>
<td>Toluene</td>
<td>3.4E-03</td>
<td>3.7E-05</td>
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</table>

#### HAPs - Metals

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/MMCF</th>
<th>Potential Emission in tons/yr</th>
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</thead>
<tbody>
<tr>
<td>Lead</td>
<td>5.4E-06</td>
<td>5.9E-05</td>
</tr>
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<td>Cadmium</td>
<td>1.2E-05</td>
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<td>Chromium</td>
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<td>1.5E-05</td>
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<tr>
<td>Manganese</td>
<td>4.1E-06</td>
<td>4.1E-06</td>
</tr>
<tr>
<td>Nickel</td>
<td>2.3E-05</td>
<td>2.3E-05</td>
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</table>

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.

**Methodology**

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

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

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

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).
## Appendix A: Emissions Calculations

### Degreasing and Parts Touch-Up

**Company Name:** Jasper Engine Exchange, Inc. - Branch #50  
**Source Address:** 733 W. Division Road, Jasper, Indiana 47546  
**Permit Renewal No.:** M037-41778-00123  
**Reviewer:** L. David Cohen

<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>chemical</th>
<th>maximum usage (gallons/yr)</th>
<th>volatility (grams/liter)</th>
<th>VOC content (lbs/gal)</th>
<th>PTE VOC (tons/yr)</th>
<th>% naphthalene</th>
<th>% ethylbenzene</th>
<th>% benzene</th>
<th>% toluene</th>
<th>Total PTE (tons/yr)</th>
<th>Methodology</th>
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<tbody>
<tr>
<td>CLT314</td>
<td>Spray-Kab Special JE (solid)*</td>
<td>240</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.42</td>
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<td>CLT315</td>
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<td>-</td>
<td>-</td>
<td>0.42</td>
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<td>CLT159</td>
<td>Compound RP-111 NC (liquid)**</td>
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<td>100</td>
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<td>0.001</td>
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<td>0.001</td>
<td>0.42</td>
<td>**</td>
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<td>CLT333</td>
<td>142 Solvent 66/3 (liquid)</td>
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<td>794</td>
<td>6.626</td>
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<td>0.001</td>
<td>0.001</td>
<td>0.42</td>
<td></td>
</tr>
</tbody>
</table>

**Methodology**

*According to MSDS, these compounds contain no VOCs or HAPs  
**According to MSDS, compound contains no HAPs  

VOC content (lbs/gal) = volatility (grams/liter) * (3.785412 liters / gallon) * (1 lb / 453.5924 grams)

PTE VOC (tons/yr) = maximum usage (gallons/yr) * VOC content (lbs/gallon) * (1 ton / 2000 lbs)

Maximum usage (gallons/yr) provided by the source.

VOC content (lbs/gal) from MSDS.
### Emission Calculations

**Company Name:** Jasper Engine Exchange, Inc. - Branch #50  
**Source Address:** 733 W. Division Road, Jasper, Indiana 47546  
**Permit Renewal No.:** M037-41778-00123  
**Reviewer:** L. David Cohen

<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>chemical</th>
<th>maximum usage (gallons/yr)</th>
<th>% by weight VOC</th>
<th>bulk density (kg/m³)</th>
<th>PTE VOC (tons/yr)</th>
<th>Weight % xylene (mixed isomers)</th>
<th>xylene (tons/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEQ226</td>
<td>Sterling PB 302-LV-2 (liquid)</td>
<td>660</td>
<td>30%</td>
<td>930</td>
<td>2.56</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TAN157</td>
<td>Dolphon XL-2103</td>
<td>120</td>
<td>2%</td>
<td>1102</td>
<td>0.55</td>
<td>1.00%</td>
<td>5.52E-03</td>
</tr>
<tr>
<td>TAN207</td>
<td>Dolphon XL-2103</td>
<td>120</td>
<td>2%</td>
<td>1102</td>
<td>0.55</td>
<td>1.00%</td>
<td>5.52E-03</td>
</tr>
</tbody>
</table>

**Total PTE (tons/yr)** 3.66  
**1.10E-02**

### Methodology

According to the MSDS, this compound contains no HAPs.

PTE VOC (tons/yr) = bulk density (kg/m³) * (1 m³ / 264.1721 gallons) * maximum usage (gallons/yr) * (1 lb / 0.4535924) * (1 ton / 2000 lbs)

Maximum usage (gallons/yr) provided by the source.

% by weight VOC and bulk density from MSDS
## Appendix A: Emissions Calculations

**Welding**

**Company Name:** Jasper Engine Exchange, Inc. - Branch #50  
**Source Address:** 733 W. Division Road, Jasper, Indiana 47546  
**Permit Renewal No.:** M037-41778-00123  
**Reviewer:** L. David Cohen

### Process Emissions

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>Number of Stations</th>
<th>Max. electrode consumption per station (lbs/hr)</th>
<th>EMISSION FACTORS* (lb pollutant/lb electrode)</th>
<th>EMISSIONS (lbs/hr)</th>
<th>HAPs (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal Inert Gas (MIG) (carbon steel)</td>
<td>3</td>
<td>0.0055</td>
<td>Mn: 0.0014, Ni: ND, Cr: 0.014</td>
<td>0.149</td>
<td>0.014</td>
</tr>
<tr>
<td>Tungsten Inert Gas (TIG) (carbon steel)</td>
<td>1</td>
<td>0.30</td>
<td>Mn: 0.0055, Ni: 0.0005, Cr: ND</td>
<td>0.002</td>
<td>1.5E-04</td>
</tr>
</tbody>
</table>

### Emission Totals

- **Potential Emissions lbs/hr:** 0.15
- **Potential Emissions lbs/day:** 3.60
- **Potential Emissions tons/year:** 0.66

### Methodology:

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

Using AWS average values: 
\[(0.0022 \text{ lb/g}) / (39.37 \text{ in./m}) \times (0.25 \text{ g/min}) / (3.6 \text{ m/min}) \times (1,000 \text{ in.}) = 0.0039 \text{ lb/1,000 in. cut, 8 mm thick} \]

Emissions, lbs/hr = emissions, lbs/hr x 24 hrs/day
Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lb
October 11, 2019

Mr. Benjamin Schwenk
Jasper Engine Exchange, Inc. – Branch #50
P.O. Box 650
Jasper, Indiana 47547

Re: Public Notice
Jasper Engine Exchange, Inc. – Branch #50
Permit Level: MSOP Renewal
Permit Number: 037-41778-00123

Dear Mr. Schwenk:

Enclosed is a copy of your draft MSOP Renewal, Technical Support Document, emission calculations, and the Public Notice.

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

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

OAQ has submitted the draft permit package to the Jasper-Dubois County Contractual 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 Mr. L. David Cohen, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-0178 or dial (317) 233-0178.

Sincerely,

John F. Jackson
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter 4/12/19
October 11, 2019

To: Jasper-Dubois County Contractual 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. #50
Permit Number: 037-41778-00123

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. Please make this information readily available until you receive a copy of the final package.

If you have any questions concerning this public review process, please contact Joanne Smiddle-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 4/2019
Notice of Public Comment

October 11, 2019
Jasper Engine Exchange, Inc. – Branch #50
037-41778-00123

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM’s Public Notice website at https://www.in.gov/idem/5474.htm.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana’s Air Permitting Program.

Please Note: If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact 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 4/12/2019
### Mail Code 61-53

**IDEM Staff**  
**JACKSON 10/11/2019**  
**Jasper Engine Exchange Inc - Branch #50 037-41778-00123 (DRAFT)***

**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

<table>
<thead>
<tr>
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<th>Article Number</th>
<th>Name, Address, Street and Post Office Address</th>
<th>Postage</th>
<th>Handling Charges</th>
<th>Act. Value (If Registered)</th>
<th>Insured Value</th>
<th>Due Send if COD</th>
<th>R.R. Fee</th>
<th>S.D. Fee</th>
<th>S.H. Fee</th>
<th>Rest. Del. Fee</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| 1    |                | Benjamin Schwenk  
Jasper Engine Exchange Inc - Branch #50 PO Box 650 Jasper IN 47547 (Source CAATS) |        |                 |                           |              |                 |          |          |          |               |         |
| 2    |                | Tornado Teds Family Prop LLC US 231 South Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 3    |                | TNW Properties, LLC  
1026 W Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 4    |                | L&W LLC  
1016 West Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 5    |                | Charles Kruger  
1006 W Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 6    |                | Gary & Deborah Clark  
914 West Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 7    |                | Dubois County Commissioners  
One Courthouse Square Jasper IN 47546 (Local Official) |        |                 |                           |              |                 |          |          |          |               |         |
| 8    |                | Jasper City Council and Mayors Office  
PO Box 29, 610 Main Jasper IN 47546 (Local Official) |        |                 |                           |              |                 |          |          |          |               |         |
| 9    |                | Mr. Alec Kalla  
8733 W. Summit Circle Drive French Lick IN 47432 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 10   |                | Jasper Public Library  
1116 Main Street Jasper IN 47546 (Library) |        |                 |                           |              |                 |          |          |          |               |         |
| 11   |                | Dubois County Health Department  
1187 S St. Charles Street Jasper IN 47546 (Health Department) |        |                 |                           |              |                 |          |          |          |               |         |
| 12   |                | John Blair  
800 Adams Ave Evansville IN 47713 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 13   |                | Kimberly Ann Brown  
894 W Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 14   |                | Mark A Petry  
874 W Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |
| 15   |                | Paul & Anna Marie Bohnert  
854 W Division Road Jasper IN 47546 (Affected Party) |        |                 |                           |              |                 |          |          |          |               |         |

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 mail 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 insured and COD mail. See *International Mail Manual* for limitations of coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
### Mail Code 61-53

| 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 |

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<td>1</td>
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<td>Ida 570 Kruger Lane Jasper IN 47546 (Affected Party)</td>
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