



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: February 27, 2013

RE: AISIN Drivetrain, Inc./071-32610-00030

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot12/03/07



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Aisin Drivetrain, Inc.
1001 Industrial Way
Crothersville, Indiana 47229

(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.

| | |
|---|--|
| Operation Permit No.: M071-32610-00030 | |
| Issued by:  Nathan C. Bell, Section Chief Permits Branch Office of Air Quality | Issuance Date: February 27, 2013 Expiration Date: February 27, 2023 |

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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 automotive and industrial parts manufacturing plant.

| | |
|------------------------------|---|
| Source Address: | 1001 Industrial Way, Crothersville, Indiana 47229 |
| General Source Phone Number: | (812) 793-2427 |
| SIC Code: | 3714 |
| County Location: | Jackson |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories |

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) rust preventive spray booth, identified as PB1, constructed in 1997 on Drivetrain Assembly Line (T/M Line AS0100) using 0.27 gallons of hydrocarbon solvent per hour, controlled by a mist collector, and exhausting to Stack S1. The booth is also used for leak testing with a pinpoint developer. Developer does not have any VOC content;
- (b) One (1) manual spot cleaning and rust inhibitor spray booth, identified as AT-BOOTH, constructed in 2012, on Transmission Assembly Line, using 0.10 gallons of coating per hour, using dry filters for particulate control, and exhausting to stack S12. The booth is also used for leak testing with a pinpoint developer. The developer does not contain any VOCs;
- (c) One (1) paint booth located in Kaizen (continuous improvement) area, identified as CFN2001, constructed in 2005, Particulate emissions controlled by Jet Collector venting to interior of building. Non-production, intermittent use of aerosol spray paints;
- (d) One (1) adhesive coating line and press grooving, identified as ACL-01, constructed in December 2006, processing 25,228,800 clutch plate pieces per year, performing tempering press, degreasing, etching, adhesive coating operations on clutch plates, exhausting to Stacks S5, S6, S7, S8, S9, S10, and S11;
- (e) Nine (9) degreasers, identified as ATCL003 through ATCL007, ATCL014, CCL0015, CCL0024, and CCL0025, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by mist collectors, exhausting in the interior;
- (f) One (1) cold cleaner degreaser, identified as CCL0016, using 0.125 gallons of water based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, not controlled by mist collectors, and exhausting indoors;

- (g) Two (2) conveyORIZED degreasing operations, identified as ATCL002 and ATCL010, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by mist collectors, exhausting outdoors.
- (h) Three (3) conveyORIZED degreasing operations, identified as ATCL008, ATCL009-01, and ATCL013, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by a mist collector, exhausting to stack S4;
- (i) Five (5) cold cleaner degreasers, identified as CCL0017, CCL0020, CCL0023, CCL3000, and SMM1008, controlled by mist collector, with no VOC or HAP content, used for washing, and degreasing steel metal parts, and exhausting indoors;
- (j) One (1) conveyORIZED degreasing operation, identified as AT-WASH1, constructed in 2012, using 0.125 gallons of solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, uncontrolled, and exhausting to the interior;
- (k) Two (2) cold cleaner degreasers, identified as CCL0026 and CCL0027, constructed in 2012, each using 0.125 gallons of solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, uncontrolled, and exhausting to the interior;
- (l) One (1) manual parts cleaning operation for quality, using spray cans containing mineral spirits, constructed in 2007, using no controls, and exhausting indoors;
- (m) One (1) bonding line, identified as BL-04, approved for construction in 2013, processing 25,228,800 clutch plate pieces per year, adhesive recoating, code printing and dipping operations on clutch plates, using no controls and exhausting to Stack 11.
- (n) Two (2) bonding lines performing bonding, identified as BL-01 and BL-02, constructed in December 2006 and 2007 respectively, and processing 25,228,800 clutch plate pieces per year each, adhesive recoating, code printing and dipping operations on clutch plates, using no controls, and exhausting to stacks S8 and S9;
- (o) One(1) bonding line performing bonding using brush application method, identified as BL-03, constructed in 2008, processing 25,228,800 clutch plate pieces per year, code printing and dipping operations on clutch plates, using no controls, and exhausting to Stacks S8 and S9.
- (p) Natural gas combustion units consisting of the following:
 - (1) Thirteen (13) rooftop furnaces, identified as RTF-D1 through RTF-D6, RTF-F1, RTF-F2, and RTF-D9 through RTF-D13, each constructed in 1999, each with a heat input capacity of 0.570 MMBtu per hour, using no controls, and exhausting outdoors.
 - (2) One (1) rooftop furnace, identified as RTF-B1, constructed in 1995, with a heat input capacity of 0.01 MMBtu per hour, using no controls, and exhausting outdoors.
 - (3) Seven (7) rooftop furnaces, identified as RTF-A1 through RTF-A7, each constructed in 1995, each with a heat input capacity of 0.8 MMBtu per hour, using no controls, and exhausting outdoors.

- (4) Nine (9) rooftop furnaces, identified as C-1 through C-9, each constructed in 1997, each with a heat input capacity of 0.57 MMBtu per hour, using no controls, and exhausting outdoors.
 - (5) Two (2) propeller unit heaters, identified as PUH-B1 and PUH-B2, each constructed in 1995, each with a heat input capacity of 0.1 MMBtu per hour, using no controls, and exhausting outdoors.
 - (6) Six (6) propeller unit heaters, identified as D-1 through D-6, each constructed in 1997, each with a heat input capacity of 0.4 MMBtu per hour, using no controls, and exhausting outdoors.
 - (7) One (1) brazing furnace, identified as ATHT003, constructed in 2000, with a heat input capacity of 0.635 MMBtu per hour, using no controls, and exhausting to stack S3.
 - (8) One (1) air make-up unit, identified as DF AMU-A1, constructed in 1995, with a heat input capacity of 0.4 MMBtu per hour, using no controls, and exhausting indoors.
 - (9) Two (2) water heaters, identified as GWH#1 and GWH#2, both constructed in 1997, each with a heat input capacity of 0.3 MMBtu per hour, using no controls, and exhausting indoors.
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- (u) Eight (8) metal inert gas (MIG) welders with a maximum hourly consumption of 2.75 pounds of wire per station, and one with a maximum wire usage rate of 8.25 pounds per hour, each using no controls and exhausting indoors;
 - (v) Ten (10) lathe machines for machining, using a mist collector as control, and exhausting to the interior; with no emissions;
 - (w) Fifty (50) machine centers, using mist collectors as control, and exhausting to the interior; with no emissions
 - (x) Three (3) process water cooling towers, identified as CT1, CT2 and CT3, each constructed in 2000, each using no controls, and each exhausting outdoors; with no emissions;
 - (y) One (1) automatic transmission fluid storage tank, identified as ATF-TANK, constructed in 2012, with a maximum storage capacity of 10,000 gallons, using no controls, and exhausting indoors.
 - (z) One (1) dip tank installed in 2007 on Drivetrain Assembly Line (T/M Line AS0100) with 10 gallon capacity utilizing Toyota ATF WS Oil to dip clutch plates and is controlled by being sealed on three sides and the top of the tank.
 - (aa) Two (2) dip tanks, installed in 2007 and 2008, each with a 90 gallon capacity utilizing Toyota ATF WS Oil to dip clutch plates and is controlled by being sealed on four sides and the top.

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, M071-32610-00030, 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
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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 M071-32610-00030 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

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

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (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.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (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.

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

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

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

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

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(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.

- (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, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall 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 facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (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) rust preventive spray booth, identified as PB1, constructed in 1997 on Drivetrain Assembly Line (T/M Line AS0100) using 0.27 gallons of hydrocarbon solvent per hour, controlled by a mist collector, and exhausting to Stack S1. The booth is also used for leak testing with a pinpoint developer. Developer does not have any VOC content;

(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 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

In order to render the requirements of 326 IAC 8-2-9 not applicable, the input of VOC to the rust preventive spray booth (PB1) in the T/M Line AS0100 shall be less than fifteen (15) pounds per day, including coatings, dilution solvents, and cleaning solvents, with compliance determined at the end of each day.

Compliance with this limit renders 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) not applicable.

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

Pursuant to 326 IAC 6-3-2(d), particulate from PB1, shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (a) Repair control device so that overspray is visibly detectable at the exhaust or accumulates on the ground.
- (b) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

Compliance Determination Requirements

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]

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

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

D.1.4 Record Keeping Requirement

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC input limit established in Condition D.1.1.
 - (1) The VOC content of each coating material and solvent used less water.
 - (2) The amount of coating material and solvent used on a daily basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (3) The VOC input to the rust preventive spray booth (PB1) each day.
- (b) Section C- General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this permit.

D.1.5 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.1 shall be submitted to the address listed in Section C- General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (e) Nine (9) degreasers, identified as ATCL003 through ATCL007, ATCL014, CCL0015, CCL0024, and CCL0025, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by mist collectors, exhausting in the interior;
- (f) One (1) cold cleaner degreaser, identified as CCL0016, using 0.125 gallons of water based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, not controlled by mist collectors, and exhausting indoors;
- (g) Two (2) conveyORIZED degreasing operations, identified as ATCL002 and ATCL010, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by mist collectors, exhausting outdoors.
- (h) Three (3) conveyORIZED degreasing operations, identified as ATCL008, ATCL009-01, and ATCL013, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by a mist collector, exhausting to stack S4;
- (i) Five (5) cold cleaner degreasers, identified as CCL0017, CCL0020, CCL0023, CCL3000, and SMM1008, controlled by mist collector, with no VOC or HAP content, used for washing, and degreasing steel metal parts, and exhausting indoors;
- (j) One (1) conveyORIZED degreasing operation, identified as AT-WASH1, constructed in 2012, using 0.125 gallons of solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, uncontrolled, and exhausting to the interior;
- (k) Two (2) cold cleaner degreasers, identified as CCL0026 and CCL0027, constructed in 2012, each using 0.125 gallons of solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, uncontrolled, and exhausting to the interior;

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

Pursuant to 326 IAC 8-3-2, for cold cleaning degreasers, identified as ACTL003 through ACTL007, ATCL014, CCL0015 through CCL0017, CCL0020, CCL0023 through CCL0027, CCL3000, and SMM1008, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements; and

- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another part, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-4]

Pursuant to 326 IAC 8-3-4, for conveyORIZED degreasers, identified as ATCL002, ATCL008, ATCL009-01, ATCL010, ATCL013, and AT-WASH1, the Permittee shall:

- (a) Minimize carryout emissions by:
 - (1) Racking parts for best drainage;
 - (2) Maintaining the vertical conveyor speed at less than 3.3 meters per minute (eleven (11) feet per minute);
- (b) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere;
- (c) Repair solvent leaks immediately, or shut down the degreaser;
- (d) Not use workplace fans near the degreaser opening;
- (e) Not allow water in solvent exiting the water separator; and
- (f) Provide a permanent, conspicuous label summarizing the operating requirements.

D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

Pursuant to 326 IAC 8-3-5(a) (Organic Solvent Degreasing Operations), for cold cleaner degreasers, identified as ACTL003 through ACTL007, ATCL014, CCL0015 through CCL0017, CCL0020, CCL0023 through CCL0027, CCL3000, and SMM1008, the Permittee shall ensure that the following control equipment requirements are met:

- (a) The Permittee shall ensure that the following equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in 326 IAC 8-3-5(b).
 - (4) The solvent spray, if used, must be solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used in insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) The owner or operator of the cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.2.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-7]

Pursuant to 326 IAC 8-3-7, for conveyORIZED degreasers identified as ATCL002, ATCL008, ATCL009-01, ATCL010, ATCL013, and AT-WASH1, the Permittee shall ensure that the following control equipment requirements are met:

- (a) The owner or operator of a conveyORIZED degreaser shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser's entrances and exits with downtime covers which are closed when the degreaser is not operating.
 - (2) Equip the degreaser with the following switches:
 - (A) A condenser flow switch and thermostat which shuts off sump heat if condenser coolant stops circulating or becomes too warm.
 - (B) A spray safety switch which shuts off spray pump if the vapor level drops more than ten (10) centimeters (four (4) inches).
 - (C) A vapor level control thermostat which shuts off sump heat when vapor level rises more than ten (10) centimeters (four (4) inches).

- (3) Equip the degreaser with entrances and exits which silhouette workloads in such a manner that the average clearance between the articles and the degreaser opening is either less than ten (10) centimeters (four (4) inches) less than ten percent (10%) of the width of the opening.
 - (4) Equip the degreaser with a drying tunnel, rotating or tumbling basket, or other equipment which prevents cleaned articles from carrying out solvent liquid or vapor.
 - (5) Equip the degreaser with a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (6) Equip the degreaser with one (1) of the following control devices:
 - (A) A refrigerated chiller.
 - (B) A carbon adsorption system with ventilation which, with the downtime covers open, achieves a ventilation rate of greater than or equal to fifteen (15) cubic meters per minute per square meter (fifty (50) cubic feet per minute per square foot) of air to solvent interface area, and an average of less than twenty-five (25) parts per million of solvent is exhausted over one (1) complete adsorption cycle.
 - (C) Other systems of demonstrated equivalent or better control as those outlined in clause (A) or (B). Such systems shall be submitted to the U.S. EPA as a SIP Revision.
- (b) The owner or operator of a conveyORIZED degreaser shall ensure that the following operating requirements are met:
- (1) Minimize solvent carryout emissions by the following:
 - (A) Racking articles to allow complete drainage.
 - (B) Maintaining the vertical conveyor speed at less than three and three-tenths (3.3) meters per minute (eleven (11) feet per minute).
 - (2) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.
 - (3) Repair solvent leaks immediately or shut down the degreaser if leaks cannot be repaired immediately.
 - (4) Prohibit the exhaust ventilation rate from exceeding twenty (20) cubic meters per minute per square meter (sixty-five (65) cubic feet per minute per square foot) of degreaser opening unless a greater ventilation rate is necessary to meet Occupational Safety and Health Administration requirements.
 - (5) Prohibit the use of workplace fans near the degreaser opening.
 - (6) Prohibit visually detectable water in the solvent exiting the water separator.
 - (7) Cover entrances and exits at all times except when processing workloads through the degreaser.

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (p) Natural gas combustion units consisting of the following:
- (1) Thirteen (13) rooftop furnaces, identified as RTF-D1 through RTF-D6, RTF-F1, RTF-F2, and RTF-D9 through RTF-D13, each constructed in 1999, each with a heat input capacity of 0.570 MMBtu per hour, using no controls, and exhausting outdoors.
 - (2) One (1) rooftop furnace, identified as RTF-B1, constructed in 1995, with a heat input capacity of 0.01 MMBtu per hour, using no controls, and exhausting outdoors.
 - (3) Seven (7) rooftop furnaces, identified as RTF-A1 through RTF-A7, each constructed in 1995, each with a heat input capacity of 0.8 MMBtu per hour, using no controls, and exhausting outdoors.
 - (4) Nine (9) rooftop furnaces, identified as C-1 through C-9, each constructed in 1997, each with a heat input capacity of 0.57 MMBtu per hour, using no controls, and exhausting outdoors.
 - (5) Two (2) propeller unit heaters, identified as PUH-B1 and PUH-B2, each constructed in 1995, each with a heat input capacity of 0.1 MMBtu per hour, using no controls, and exhausting outdoors.
 - (6) Six (6) propeller unit heaters, identified as D-1 through D-6, each constructed in 1997, each with a heat input capacity of 0.4 MMBtu per hour, using no controls, and exhausting outdoors.
 - (7) One (1) brazing furnace, identified as ATHT003, constructed in 2000, with a heat input capacity of 0.635 MMBtu per hour, using no controls, and exhausting to stack S3.
 - (8) One (1) air make-up unit, identified as DF AMU-A1, constructed in 1995, with a heat input capacity of 0.4 MMBtu per hour, using no controls, and exhausting indoors.
 - (9) Two (2) water heaters, identified as GWH#1 and GWH#2, both constructed in 1997, each with a heat input capacity of 0.3 MMBtu per hour, using no controls, 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 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, particulate matter emissions from the two (2) hot water heaters shall not exceed 0.6 pounds per million Btu (lb/MMBtu) heat input.

SECTION D.4

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (aa) Two (2) dip tanks, installed in 2007 and 2008, each with a 90 gallon capacity utilizing Toyota ATF WS Oil to dip clutch plates and is controlled by being sealed on four sides and the top.

(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.4.1 VOC [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, no owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any VOC in excess of the following:

- (a) Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator that applies clear coatings. A clear coating is a coating that:
- (1) lacks color or opacity; and
 - (2) is transparent and uses the undercoat as a reflectant base or undertone color.
- (b) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).
- (c) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water delivered to a coating applicator that applies extreme performance coatings. Extreme performance coatings are coatings designed for exposure to:
- (1) temperatures consistently above ninety-five (95) degrees Celsius;
 - (2) detergents;
 - (3) abrasive or souring agents;
 - (4) solvents;
 - (5) corrosive atmosphere;
 - (6) outdoor weather at all times; or
 - (7) similar environmental conditions.
- (d) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from

mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to the following:

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

Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

Source Name: Aisin Drivetrain, Inc.
 Source Address: 1001 Industrial Way, Crothersville, Indiana 47229
 MSOP Permit No.: M071-32610-00030
 Source/Facility: Rust preventive spray booth (PB1) in the T/M Line AS0100
 Pollutant: VOC Input
 Limit: The input of VOC to the rust preventive spray booth (PB1) in the T/M Line AS0100 shall be less than fifteen (15) pounds per day, including coatings, dilution solvents, and cleaning solvents, with compliance determined at the end of each day.

Month: _____ Year: _____

| Day | Input this day (ton/day) | Input for the last 365 day period | Day | Input this day (ton/day) | Input for the last 365 day period |
|-----|--------------------------|-----------------------------------|--------------|--------------------------|-----------------------------------|
| 1 | | | 17 | | |
| 2 | | | 18 | | |
| 3 | | | 19 | | |
| 4 | | | 20 | | |
| 5 | | | 21 | | |
| 6 | | | 22 | | |
| 7 | | | 23 | | |
| 8 | | | 24 | | |
| 9 | | | 25 | | |
| 10 | | | 26 | | |
| 11 | | | 27 | | |
| 12 | | | 28 | | |
| 13 | | | 29 | | |
| 14 | | | 30 | | |
| 15 | | | 31 | | |
| 16 | | | TOTAL | | |

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**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).

| | |
|----------------------|------------------------------|
| Company Name: | Aisin Drivetrain, Inc. |
| Address: | 1001 Industrial Way |
| City: | Crothersville, Indiana 47229 |
| Phone #: | (812) 793-2427 |
| MSOP #: | M071-32610-00030 |

I hereby certify that Aisin Drivetrain, Inc. is :

still in operation.

no longer in operation.

I hereby certify that Aisin Drivetrain, Inc. is :

in compliance with the requirements of MSOP M071-32610-00030.

not in compliance with the requirements of MSOP M071-32610-00030.

| |
|---------------------------------------|
| 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: |
| |
| |
| |
| |

MALFUNCTION REPORT
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865

**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 FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

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

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 Renewal

| |
|--|
| Source Background and Description |
|--|

| | |
|----------------------------|---|
| Source Name: | Aisin Drivetrain, Inc |
| Source Location: | 1001 Industrial Way, Crothersville, IN 47229 |
| County: | Jackson |
| SIC Code: | 3714 (Motor Vehicle Parts and Accessories) |
| Permit Renewal No.: | M071-32610-00030 |
| Permit Reviewer: | Deena Patton |

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Aisin Drivetrain, Inc. relating to the operation of a stationary automotive and industrial parts manufacturing plant (drivetrain, chassis, and brake components). On December 10, 2012, Aisin Drivetrain, Inc. submitted an application to the OAQ requesting to renew its operating permit. Aisin Drivetrain, Inc. was issued an initial MSOP M071-25726-00030 on April 8, 2008.

| |
|---|
| Permitted Emission Units and Pollution Control Equipment |
|---|

The source consists of the following permitted emission units:

- (a) One (1) rust preventive spray booth, identified as PB1, constructed in 1997 on Drivetrain Assembly Line (T/M Line AS0100) using 0.27 gallons of hydrocarbon solvent per hour, controlled by a mist collector, and exhausting to Stack S1. The booth is also used for leak testing with a pinpoint developer. Developer does not have any VOC content;
- (b) One (1) manual spot cleaning and rust inhibitor spray booth, identified as AT-BOOTH, constructed in 2012, on Transmission Assembly Line, using 0.10 gallons of coating per hour, using dry filters for particulate control, and exhausting to stack S12. The booth is also used for leak testing with a pinpoint developer. The developer does not contain any VOCs;
- (c) One (1) paint booth located in Kaizen (continuous improvement) area, identified as CFN2001, constructed in 2005, Particulate emissions controlled by Jet Collector venting to interior of building. Non-production, intermittent use of aerosol spray paints;
- (d) One (1) adhesive coating line and press grooving, identified as ACL-01, constructed in December 2006, processing 25,228,800 clutch plate pieces per year, performing tempering press, degreasing, etching, adhesive coating operations on clutch plates, exhausting to Stacks S5, S6, S7, S8, S9, S10, and S11;
- (e) Nine (9) degreasers, identified as ATCL003 through ATCL007, ATCL014, CCL0015, CCL0024, and CCL0025, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by mist collectors, exhausting in the interior;
- (f) One (1) cold cleaner degreaser, identified as CCL0016, using 0.125 gallons of water based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, not controlled by mist collectors, and exhausting indoors;

- (g) Two (2) conveyORIZED degreasing operations, identified as ATCL002 and ATCL010, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by mist collectors, exhausting outdoors.
- (h) Three (3) conveyORIZED degreasing operations, identified as ATCL008, ATCL009-01, and ATCL013, using 0.125 gallons of water-based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, controlled by a mist collector, exhausting to stack S4;
- (i) Five (5) cold cleaner degreasers, identified as CCL0017, CCL0020, CCL0023, CCL3000, and SMM1008, controlled by mist collector, with no VOC or HAP content, used for washing, and degreasing steel metal parts, and exhausting indoors;
- (j) One (1) conveyORIZED degreasing operation, identified as AT-WASH1, constructed in 2012, using 0.125 gallons of solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, uncontrolled, and exhausting to the interior;
- (k) Two (2) cold cleaner degreasers, identified as CCL0026 and CCL0027, constructed in 2012, each using 0.125 gallons of solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, uncontrolled, and exhausting to the interior;
- (l) One (1) manual parts cleaning operation for quality, using spray cans containing mineral spirits, constructed in 2007, using no controls, and exhausting indoors;
- (m) One (1) bonding line, identified as BL-04, approved for construction in 2013, processing 25,228,800 clutch plate pieces per year, adhesive recoating, code printing and dipping operations on clutch plates, using no controls and exhausting to Stack 11.
- (n) Two (2) bonding lines performing bonding, identified as BL-01 and BL-02, constructed in December 2006 and 2007 respectively, and processing 25,228,800 clutch plate pieces per year each, adhesive recoating, code printing and dipping operations on clutch plates, using no controls, and exhausting to stacks S8 and S9;
- (o) One(1) bonding line performing bonding using brush application method, identified as BL-03, constructed in 2008, processing 25,228,800 clutch plate pieces per year, code printing and dipping operations on clutch plates, using no controls, and exhausting to Stacks S8 and S9.
- (p) Natural gas combustion units consisting of the following:
 - (1) Thirteen (13) rooftop furnaces, identified as RTF-D1 through RTF-D6, RTF-F1, RTF-F2, and RTF-D9 through RTF-D13, each constructed in 1999, each with a heat input capacity of 0.570 MMBtu per hour, using no controls, and exhausting outdoors.
 - (2) One (1) rooftop furnace, identified as RTF-B1, constructed in 1995, with a heat input capacity of 0.01 MMBtu per hour, using no controls, and exhausting outdoors.
 - (3) Seven (7) rooftop furnaces, identified as RTF-A1 through RTF-A7, each constructed in 1995, each with a heat input capacity of 0.8 MMBtu per hour, using no controls, and exhausting outdoors.

- (4) Nine (9) rooftop furnaces, identified as C-1 through C-9, each constructed in 1997, each with a heat input capacity of 0.57 MMBtu per hour, using no controls, and exhausting outdoors.
- (5) Two (2) propeller unit heaters, identified as PUH-B1 and PUH-B2, each constructed in 1995, each with a heat input capacity of 0.1 MMBtu per hour, using no controls, and exhausting outdoors.
- (6) Six (6) propeller unit heaters, identified as D-1 through D-6, each constructed in 1997, each with a heat input capacity of 0.4 MMBtu per hour, using no controls, and exhausting outdoors.
- (7) One (1) brazing furnace, identified as ATHT003, constructed in 2000, with a heat input capacity of 0.635 MMBtu per hour, using no controls, and exhausting to stack S3.
- (8) One (1) air make-up unit, identified as DF AMU-A1, constructed in 1995, with a heat input capacity of 0.4 MMBtu per hour, using no controls, and exhausting indoors.
- (9) Two (2) water heaters, identified as GWH#1 and GWH#2, both constructed in 1997, each with a heat input capacity of 0.3 MMBtu per hour, using no controls, and exhausting indoors.
- (u) Eight (8) metal inert gas (MIG) welders with a maximum hourly consumption of 2.75 pounds of wire per station, and one with a maximum wire usage rate of 8.25 pounds per hour, each using no controls and exhausting indoors;
- (v) Ten (10) lathe machines for machining, using a mist collector as control, and exhausting to the interior; with no emissions;
- (w) Fifty (50) machine centers, using mist collectors as control, and exhausting to the interior; with no emissions
- (x) Three (3) process water cooling towers, identified as CT1, CT2 and CT3, each constructed in 2000, each using no controls, and each exhausting outdoors; with no emissions;
- (y) One (1) automatic transmission fluid storage tank, identified as ATF-TANK, constructed in 2012, with a maximum storage capacity of 10,000 gallons, using no controls, and exhausting indoors.
- (z) One (1) dip tank installed in 2007 on Drivetrain Assembly Line (T/M Line AS0100) with 10 gallon capacity utilizing Toyota ATF WS Oil to dip clutch plates and is controlled by being sealed on three sides and the top of the tank.

| |
|---|
| Unpermitted Emission Units and Pollution Control Equipment |
|---|

The source consists of the following unpermitted emission units:

- (a) Two (2) dip tanks, installed in 2007 and 2008, each with a 90 gallon capacity utilizing Toyota ATF WS Oil to dip clutch plates and is controlled by being sealed on four sides and the top.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

- (a) One (1) degreaser (ATCL011) using 0.125 gallons of water based alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, not controlled by mist collectors.
- (b) One (1) manual silent guard mixer drum cleaning operation, using spray bottles containing 0.90 gallons per day VOC containing solvent, constructed in 2008;
- (c) One (1) batch mixing operation in the existing Silent Guard Mixer (SG MIX 1), approved for two new formulations- 423A and 411A to be added in 2008, with a maximum material input of 13,829.3 pounds per batch or 8,076.3 tons per year. VOC and PM emissions are generated during the manual loading of solvents and powder materials. The mixing operation is equipped with a dust collector (DC-1) for PM emission control and exhausting through one (1) stack identified as S MIX1. VOC emissions are collected in the hood over the mixer and exhaust through one (1) stack identified as S MIX 3. The empty powder material bags are stored in a Waste Bag Storage Area, producing negligible PM emissions, equipped with a dust collector (DC MIX 2) for industrial hygiene and cleanliness and exhausting through one (1) stack identified as S MIX 2;

Existing Approvals

Since the issuance of the MSOP M071-25726-00030 on April 8, 2008, the source has constructed or has been operating under the following additional approvals:

- (a) Notice Only Change No. 071-26798-00030 issued on July 30, 2008;
- (b) Notice Only Change No. 071-26817-00030 issued on August 4, 2008;
- (c) Notice Only Change No. 071-29784-00030 issued on October 25, 2010;
- (d) Notice Only Change No. 071-31559-00030 issued on March 20, 2012; and
- (e) Notice Only Change No. 071-31851-00030 issued on June 6, 2012.

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.

Enforcement Issue

IDEM is aware that the two existing dip tanks were constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take appropriate action. This draft MSOP Renewal contains provisions to bring unpermitted equipment into compliance with construction and operation permit rules.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Jackson County.

| Pollutant | Designation |
|---|---|
| SO ₂ | Better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| O ₃ | Attainment effective December 29, 2005, for the 8-hour ozone standard. ¹ |
| PM ₁₀ | Unclassifiable effective November 15, 1990. |
| NO ₂ | Cannot be classified or better than national standards. |
| Pb | Not designated. |
| ¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} . | |

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

- (b) **PM_{2.5}**
 Jackson County has been classified as attainment for PM_{2.5}. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (c) **Other Criteria Pollutants**
 Jackson County has been classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

| Unrestricted Potential Emissions | |
|----------------------------------|----------------|
| Pollutant | Tons/year |
| PM | 1.83 |
| PM10 | 2.38 |
| PM2.5 | 2.38 |
| SO2 | 0.06 |
| NOx | 9.61 |
| VOC | 25.34 |
| CO | 8.07 |
| GHGs as CO2e | 11605 |
| Worst Single HAP | 0.25 (Toluene) |
| Total HAPs | 0.86 |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants, excluding GHGs, is less than 100 tons per year. However, VOC is equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) 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(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

Potential to Emit After Issuance

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

| Process/ Emission Unit | Potential To Emit of the Entire Source After Issuance of Renewal (tons/year) | | | | | | | | | |
|---------------------------|--|--------------------|---------------------|-----------------|-----------------|------|------|---------------------------------|---------------|----------------------------|
| | PM | PM ₁₀ * | PM _{2.5} * | SO ₂ | NO _x | VOC | CO | GHGs as CO ₂ e | Total HAPs | Worst Single HAP |
| PB1 | 0.78 | 0.78 | 0.78 | - | - | 2.74 | - | - | - | - |
| AT-BOOTH | 0.21 | 0.21 | 0.21 | - | - | 1.65 | - | - | - | - |
| CFN2001 | 0.39 | 0.39 | 0.39 | - | - | 0.63 | - | - | 0.31 | 0.25 (Toluene) |
| ACL-01 | - | - | - | - | - | 2.21 | - | - | 0.16 | 0.16 (Phenol) |
| Degreasers | - | - | - | - | - | 0.22 | - | - | - | - |
| Mineral Spirits | - | - | - | - | - | 2.08 | - | - | - | - |
| BL-01 through BL-04 | - | - | - | - | - | 2.68 | - | - | 0.14 | 0.08 (Salt of Chromium) |
| Natural Gas Combustion | 0.18 | 0.73 | 0.73 | 0.06 | 9.61 | 0.53 | 8.07 | 11605 | 0.18 | 3.3E-4 (Toluene) |
| MIG Welders | 0.24 | 0.24 | 0.24 | - | - | - | - | - | 0.06 | 0.05 (Nickel) |

| Process/ Emission Unit | Potential To Emit of the Entire Source After Issuance of Renewal (tons/year) | | | | | | | | | |
|--|--|--------------------|---------------------|-----------------|-----------------|--------------|-------------|---------------------------------|---------------|---------------------------|
| | PM | PM ₁₀ * | PM _{2.5} * | SO ₂ | NO _x | VOC | CO | GHGs as CO ₂ e | Total HAPs | Worst Single HAP |
| Lathe Machines | - | - | - | - | - | - | - | - | - | - |
| Machine Centers | - | - | - | - | - | - | - | - | - | - |
| CT1 through CT3 | - | - | - | - | - | - | - | - | - | - |
| ATF-TANK | - | - | - | - | - | 1.3E-3 | - | - | - | - |
| Dip Tanks | - | - | - | - | - | 9.10 | - | - | - | - |
| Total PTE of Entire Source | 1.83 | 2.38 | 2.38 | 0.06 | 9.61 | 21.83 | 8.07 | 11605 | 0.86 | 0.25 (Toluene) |
| Title V Major Source Thresholds | NA | 100 | 100 | 100 | 100 | 100 | 100 | 100,000 CO ₂ e | 25 | 10 |
| PSD Major Source Thresholds | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 100,000 CO ₂ e | NA | NA |
| *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . | | | | | | | | | | |

Federal Rule Applicability

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.

NSPS

- (b) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978, 40 CFR 60.110, Subpart K, (326 IAC 12), are not included in the permit for the automatic transmission fluid storage tank (ATF-TANK), since this tank is not used to store petroleum liquids as defined in §60.111(b).
- (c) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978 and Prior to July 23, 1984, 40 CFR 60.110a, Subpart Ka, (326 IAC 12), are not included in the permit for the automatic transmission fluid storage tank (ATF-TANK), since this tank is not used to store petroleum liquids as defined in §60.111a(b).
- (d) 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, 40 CFR 60.110b, Subpart Kb, (326 IAC 12), are not included in the permit for the automatic transmission fluid storage tank (ATF-TANK), since this tank is not used to store petroleum liquids as defined in §60.111b(b).
- (e) The requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60.310, Subpart EE, (326 IAC 12) are not included in the permit for the spray and paint booths, since these units do not coat metal furniture as described in §60.310(a).

- (f) The requirements of the New Source Performance Standard for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR 60.390, Subpart MM, (326 IAC 12), are not included in the permit for the spray and paint booths, since these units do not reside in an automobile or light duty truck assembly plant as described in §60.390(a).
- (g) The requirements of the New Source Performance Standard for Metal Coil Surface Coating, 40 CFR 60.460, Subpart TT, (326 IAC 12), are not included in the permit for the spray and paint booths, since these units do not coat metal coils.

NESHAP

- (h) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Organic Hazardous Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater, 40 CFR 63, Subpart G, is not included in this permit for the automatic transmission fluid storage tank (ATF-TANK) since this source is not a major source of HAPs and is not subject to 40 CFR 63, Subpart F as described in §63.110(a).
- (i) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T, (326 IAC 20-6), is not included in this permit for the twenty-three (23) degreasers, since each of these degreasers are not considered a major source of HAPs and do not contain any HAPs per the MSDS.
- (j) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP): Surface Coating of Automobiles and Light-Duty Trucks, 40 CFR 63, Subpart IIII (4I), (326 IAC 20-85), is not included in this permit, since this source does not coat automobile or light duty truck body parts and is not a major source of HAPs.
- (k) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM, (326 IAC 20-80), is not included in this permit, since this source is not considered a major source of HAPs.
- (l) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP): Surface Coating of Metal Furniture, 40 CFR 63, Subpart RRRR, (326 IAC 20-78), is not included in this permit, since this source does not coat metal furniture and is not a major source of HAPs.
- (m) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP): Surface Coating of Metal Coil, 40 CFR 63, Subpart SSSS, (326 IAC 20-64), is not included in this permit, since this source does not coat metal coils and is not considered a major source of HAPs.
- (n) The requirements of the National Emission Standards for the Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, (326 IAC 20-95), are not included in this permit, since this source is not considered a major source of HAPs.
- (o) The requirements of the National Emission Standards for the Hazardous Air Pollutants (NESHAP): Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH (6H), though ink 5157E contains salts of chromium which is a compound of chromium, the ink is stamped on the material not sprayed as defined in §63.11180, thus the requirements of Subpart HHHHHH are not applicable to this source.

- (p) The requirements of the National Emissions Standards for the Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ (6J), are not included in this permit, since the two (2) natural gas-fired water heaters are not subject to this subpart as defined in §63.11195(e).
- (q) The requirements of the National Emissions Standards for the Hazardous Air Pollutants (NESHAP) for Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX (6X), are not included in this permit since this source does not have a dry abrasive blasting operation that uses materials that contain MFHAPs, a machining operation that uses materials that contain MFHAPs, a dry grinding or polishing operation that use materials that contain MFHAPs, a spray painting operation that uses materials that contain MFHAPs, or a welding operation that use materials that contain MFHAPs. In addition, 40 CFR 63, Subpart XXXXXX (6X), are not included in this permit because the operations at this source falls under SIC codes 3714 (NAICS codes 336340), which is not one of the nine source categories listed in 40 CFR 63.11514 (see Federal Register, 73 FR 43000, July 23, 2008, for the list of NAICS codes for regulated source categories)

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| State Rule Applicability - Entire Source |
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- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of CO₂e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit 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 2-4.1.
- (d) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

- (f) 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.
- (g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year.
- (h) 326 IAC 6.8 (PM Limitations for Lake County)
This source is not subject to 326 IAC 6.8 because it is not located in Lake County and it does not have the potential to emit particulate matter is equal to or greater than 10 tons per year.
- (i) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (j) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

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| State Rule Applicability – Individual Facilities |
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Rust Preventive Spray Booth (PB1)

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

Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to PB1 since the paint booth uses more than five (5) gallons per day of coating and is located anywhere in the state. Pursuant to 326 IAC 6-3-2(d), particulate from PB1, shall be controlled by dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (a) Repair control device so that overspray is visibly detectable at the exhaust or accumulates on the ground.
- (b) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to PB1 since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to PB1, since the potential emissions are less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 are applicable to miscellaneous metal parts coating operations with potential emissions greater than fifteen (15) pounds per day before add on controls. Rust Preventive Spray Booth (PB1) has potential VOC emissions of greater than fifteen (15) pounds per day before add on controls. However, the Permittee has agreed to limit the VOC input to PB1 to less than 15 pounds per day, in order to render 326 IAC 8-2-9 not applicable.

In order to render the requirements of 326 IAC 8-2-9 not applicable, the input of VOC to the rust preventive spray booth (PB1) in the T/M Line AS0100 shall be less than fifteen (15) pounds per day, including coatings, dilution solvents, and cleaning solvents, with compliance determined at the end of each day.

Compliance with this limit renders 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) not applicable.

Manual Spot Cleaning and Rust Inhibitor Spray Booth (AT-BOOTH)

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

Pursuant to 326 IAC 6-3-1(b)(15), 326 IAC 6-3-2 is not applicable to AT-BOOTH since the potential usage of surface coatings is less than 5 gallons per day.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to AT-BOOTH since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to AT-BOOTH, since the potential emissions are less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 do not apply to AT-BOOTH, since the potential emissions are less than fifteen (15) pounds per day of VOC before add on controls.

Paint Booth located in Kaizen area (CFN2001)

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

Pursuant to 326 IAC 6-3-1(b)(15), 326 IAC 6-3-2 is not applicable to CFN2001 since the potential usage of surface coatings is less than 5 gallons per day.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to CFN2001 since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to CFN2001, since the potential emissions are less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 do not apply to CFN2001, since the potential emissions are less than fifteen (15) pounds per day of VOC before add on control.

Adhesive Coating Line (ACL-01)

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

Pursuant to 326 IAC 6-3-1(b)(15), 326 IAC 6-3-2 is not applicable to ACL-01 since the potential usage of surface coatings is less than 5 gallons per day.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to ACL-01 since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to ACL-01, since the potential emissions are less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 do not apply to ACL-01, since the potential emissions are less than fifteen (15) pounds per day of VOC before add on control.

Cold Cleaner Degreasers (ACTL003 through ACTL007, ACTL014, CCL0015 through CCL0017, CCL0020, CCL0023 through CCL0027, CCL3000, and SMM1008)

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to each of the cold cleaner degreasers since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to each of the cold cleaner degreasers since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to each of the cold cleaner degreasers, since the potential emissions of each unit are less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-3-1(a)(2), the requirements of 326 IAC 8-3-2 are applicable to ACTL003 through ACTL007, ATCL014, CCL0015 through CCL0017, CCL0020, CCL0023 through CCL0027, CCL3000, and SMM1008, since each of the units were constructed after January 1, 1980 and are located anywhere in the state. Pursuant to 326 IAC 8-3-2 the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements; and
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another part, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Organic Solvent Degreaser Operation)

Pursuant to 326 IAC 8-3-1(a)(2), the requirements of 326 IAC 8-3-5 are applicable to ACTL003 through ACTL007, ATCL014, CCL0015 through CCL0017, CCL0020, CCL0023 through CCL0027, CCL3000, and SMM1008, since each of the units were constructed after January 1, 1980 and are located anywhere in the state. Pursuant to 326 IAC 8-3-2 the Permittee shall ensure that the following control equipment requirements are met:

- (a) The Permittee shall ensure that the following equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in 326 IAC 8-3-5(b).
 - (4) The solvent spray, if used, must be solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (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) Other systems of demonstrated equivalent control such as refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) The owner or operator of the cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.

- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Conveyorized Degreasers (ATCL002, ATCL008, ATCL009-01, ATCL010, ACTL013, and AT-WASH1)

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to each of the conveyorized degreasers since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to each of the conveyorized degreasers since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to each of the conveyorized degreasers, since the potential emissions of each unit are less than twenty-five (25) tons of VOC per year.

326 IAC 8-3-4 (Conveyorized Degreaser Operation)

Pursuant to 326 IAC 8-3-1(a)(2), the requirements of 326 IAC 8-3-4 are applicable to ATCL002, ATCL008, ATCL009-01, ATCL010, ATCL013, and AT-WASH1 since each of the units were constructed after January 1, 1980 and are located anywhere in the state. Pursuant to 326 IAC 8-3-4 the Permittee shall:

- (a) Minimize carryout emissions by:
 - (1) Racking parts for best drainage;
 - (2) Maintaining the vertical conveyor speed at less than 3.3 meters per minute (eleven (11) feet per minute);
- (b) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere;
- (c) Repair solvent leaks immediately, or shut down the degreaser;
- (d) Not use workplace fans near the degreaser opening;
- (e) Not allow water in solvent exiting the water separator; and
- (f) Provide a permanent, conspicuous label summarizing the operating requirements.

326 IAC 8-3-7 (Conveyorized Degreaser Operation and Control)

Pursuant to 326 IAC 8-3-1(a)(2), the requirements of 326 IAC 8-3-4 are applicable to ATCL002, ATCL008, ATCL009-01, ATCL010, ATCL013, and AT-WASH1 since each of the units were constructed after January 1, 1980 and are located anywhere in the state. Pursuant to 326 IAC 8-3-7 the Permittee shall ensure that the following control equipment requirements are met:

- (a) The owner or operator of a conveyORIZED degreaser shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser's entrances and exits with downtime covers which are closed when the degreaser is not operating.
 - (2) Equip the degreaser with the following switches:
 - (A) A condenser flow switch and thermostat which shuts off sump heat if condenser coolant stops circulating or becomes too warm.
 - (B) A spray safety switch which shuts off spray pump if the vapor level drops more than ten (10) centimeters (four (4) inches).
 - (C) A vapor level control thermostat which shuts off sump heat when vapor level rises more than ten (10) centimeters (four (4) inches).
 - (3) Equip the degreaser with entrances and exits which silhouette workloads in such a manner that the average clearance between the articles and the degreaser opening is either less than ten (10) centimeters (four (4) inches) less than ten percent (10%) of the width of the opening.
 - (4) Equip the degreaser with a drying tunnel, rotating or tumbling basket, or other equipment which prevents cleaned articles from carrying out solvent liquid or vapor.
 - (5) Equip the degreaser with a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (6) Equip the degreaser with one (1) of the following control devices:
 - (A) A refrigerated chiller.
 - (B) A carbon adsorption system with ventilation which, with the downtime covers open, achieves a ventilation rate of greater than or equal to fifteen (15) cubic meters per minute per square meter (fifty (50) cubic feet per minute per square foot) of air to solvent interface area, and an average of less than twenty-five (25) parts per million of solvent is exhausted over one (1) complete adsorption cycle.
 - (C) Other systems of demonstrated equivalent or better control as those outlined in clause (A) or (B). Such systems shall be submitted to the U.S. EPA as a SIP Revision.
- (b) The owner or operator of a conveyORIZED degreaser shall ensure that the following operating requirements are met:
 - (1) Minimize solvent carryout emissions by the following:
 - (A) Racking articles to allow complete drainage.
 - (B) Maintaining the vertical conveyor speed at less than three and three-tenths (3.3) meters per minute (eleven (11) feet per minute).

- (2) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.
- (3) Repair solvent leaks immediately or shut down the degreaser if leaks cannot be repaired immediately.
- (4) Prohibit the exhaust ventilation rate from exceeding twenty (20) cubic meters per minute per square meter (sixty-five (65) cubic feet per minute per square foot) of degreaser opening unless a greater ventilation rate is necessary to meet Occupational Safety and Health Administration requirements.
- (5) Prohibit the use of workplace fans near the degreaser opening.
- (6) Prohibit visually detectable water in the solvent exiting the water separator.
- (7) Cover entrances and exits at all times except when processing workloads through the degreaser.

Bonding Lines (BL-01 through BL-04)

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

Pursuant to 326 IAC 6-3-1(b)(8), 326 IAC 6-3-2 is not applicable to BL-01 through BL-04 since these units apply surface coatings using brush application.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to BL-01 through BL-04 since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to BL-01 through BL-04, since the potential emissions are each less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 do not apply to BL-01 through BL-04, since the potential emissions are each less than fifteen (15) pounds per day of VOC before add on control.

326 IAC 8-22-3 (Miscellaneous Industrial Adhesives)

Pursuant to 326 IAC 8-22-1(a)(1), the requirements of 326 IAC 8-22-3 do not apply to BL-01 through BL-04, since the bonding lines are not located in Lake or Porter County.

Natural Gas Combustion Units (30 rooftop furnaces, 8 propeller unit heaters, 1 brazing furnace (ATHT003), 1 Air Make Up Unit, 2 water heaters)

326 IAC 6-2-4 (Particulate Matter Limitations for Indirect Heating)

Pursuant to 326 IAC 6-2-4, since the total maximum operating capacity rating (Q) for all indirect heating units is less than 10 MMBtu/hr, the particulate emissions (Pt) from the indirect heating facilities (the two Hot Water Heaters) constructed after September 21, 1983, shall each not exceed 0.6 lb/MMBtu heat input.

Pursuant to 6-2-1(a), the thirty (30) rooftop furnaces, eight (8) propeller unit heaters, one (1) brazing furnace (ATHT003) and the one (1) air make up unit are not subject to 326 IAC 6-2-4, since they are not sources of indirect heating.

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

The natural gas combustion units are each not subject to the requirements of 326 IAC 6-3-2, since they each are not a "manufacturing process" as defined by 326 IAC 6-3-1.5.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Pursuant to 326 IAC 7-1.1-1, the natural gas combustion units are not subject to 326 IAC 7-1.1, since each unit has potential emissions less than twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to each of the natural gas combustion units, since the potential emissions of each unit are less than twenty-five (25) tons of VOC per year.

Metal Inert Gas Welders

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

Pursuant to 326 IAC 6-3-1(b)(9), 326 IAC 6-3-2 is not applicable to each of the eight (8) Metal Inert Gas Welders since the potential to consume welding wire for each of the welders is less than six hundred twenty-five (625) pounds per day.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to each of the eight (8) Metal Inert Gas Welders since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

Lathe Machines

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to the Lathe Machines since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to the Lathe Machines since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to the lathe machines, since the potential emissions are less than twenty-five (25) tons of VOC per year.

Machine Centers

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to the machining centers since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to the machining centers since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to the machine centers, since the potential emissions are less than twenty-five (25) tons of VOC per year.

Process Water Cooling Towers (CT1 through CT3)

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to each of the CT1 through CT3 since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to each of the CT1 through CT3 since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to each of the CT1 through CT3, since the potential emissions of the units are less than twenty-five (25) tons of VOC per year.

326 IAC 8-9-4 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1(a), the requirements of 326 IAC 8-9-4 are not applicable to the CT1 through CT3, since each of the towers are not located in Clark, Floyd, Lake, or Porter County.

Automatic Transmission Fluid Storage Tank (ATF-TANK)

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to the ATF-TANK since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to the ATF-TANK since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to the ATF-TANK, since the potential emissions of the unit is less than twenty-five (25) tons of VOC per year.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

Pursuant to 326 IAC 8-4-3(a) the requirements of 326 IAC 8-4-3 are not applicable to the ATF-TANK, since the solvent has a true vapor pressure less than 10.5 kPa (1.52psi).

326 IAC 8-9-4 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1(a), the requirements of 326 IAC 8-9-4 are not applicable to the ATF-TANK, since the tank is not located in Clark, Floyd, Lake, or Porter County.

Dip Tanks

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

Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3-2 is not applicable to each of the dip tanks, since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 6.5 (Particulate Emission Limitations Except Lake County)

Pursuant to 326 IAC 6.5-1-1(a), 326 IAC 6.5 does not apply to each of the dip tanks, since the source is not located in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County.

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

Pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 are not applicable to each of the dip tanks, since the potential emissions of the units are less than twenty-five (25) tons of VOC per year.

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

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 are not applicable to the one (1) dip tank on Drivetrain Assembly Line (T/M Line ASO1000) since the potential emissions of the unit is less than fifteen (15) pounds of VOC per day before add on control.

Pursuant to 326 IAC 8-2-1(a)(4), the requirements of 326 IAC 8-2-9 are applicable to the two (2) dip tanks installed in 2007 and 2008, since they each have potential emissions greater than fifteen (15) pounds of VOC per day before add on control.

Pursuant to 326 IAC 8-2-9, no owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any VOC in excess of the following:

- (a) Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator that applies clear coatings. A clear coating is a coating that:
 - (1) lacks color or opacity; and
 - (2) is transparent and uses the undercoat as a reflectant base or undertone color.
- (b) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).
- (c) Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water delivered to a coating applicator that applies extreme performance coatings. Extreme performance coatings are coatings designed for exposure to:
 - (1) temperatures consistently above ninety-five (95) degrees Celsius;
 - (2) detergents
 - (3) abrasive or souring agents;
 - (4) solvents;
 - (5) corrosive atmosphere;
 - (6) outdoor weather at all times; or
 - (7) similar environmental conditions.
- (d) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.

Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:

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

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

There are no compliance monitoring requirements applicable to this source.

Recommendation

The staff recommends to the Commissioner that the MSOP Renewal be approved. This recommendation is based on the following facts and conditions:

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

An application for the purposes of this review was received on December 10, 2012.

Conclusion

The operation of this stationary automotive and industrial parts manufacturing plant shall be subject to the conditions of the attached MSOP Renewal No. M071-32610-00030.

| |
|---------------------|
| IDEM Contact |
|---------------------|

- (a) Questions regarding this proposed permit can be directed to Deena Patton at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5400 or toll free at 1-800-451-6027 extension 4-5400.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emissions Calculations
Emission Summary**

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Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

| Uncontrolled/Unlimited Potential to Emit (tons/year) | | | | | | | | | | | |
|--|-------------|------------------|-------------------|-----------------|-----------------|--------------|-------------|--------------|-------------|-------------------------------|------------------|
| Emission Units/IDs | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOC | CO | GHGs | HAP | Worst Single HAP (Toluene) | |
| PB1 | 0.78 | 0.78 | 0.78 | 0.00 | 0.00 | 6.24 | 0.00 | 0 | 0.00 | 0.00 | NA |
| AT-BOOTH | 0.21 | 0.21 | 0.21 | 0.00 | 0.00 | 1.65 | 0.00 | 0 | 0.00 | 0.00 | NA |
| CFN2001 | 0.39 | 0.39 | 0.39 | 0.00 | 0.00 | 0.63 | 0.00 | 0 | 0.31 | 0.25 | Toluene |
| ACL-01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 0.00 | 0 | 0.16 | 0.16 | Phenol |
| Degreasers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0 | 0.00 | 0.00 | NA |
| Mineral Spirits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.08 | 0.00 | 0 | 0.00 | 0.00 | NA |
| BL-01 through BL-04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0 | 0.14 | 0.08 | Salt of Chromium |
| Natural Gas Combustion | 0.18 | 0.73 | 0.73 | 0.06 | 9.61 | 0.53 | 8.07 | 11605 | 0.18 | 3.27E-04 | Toluene |
| MIG Welders | 0.26 | 0.26 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.06 | 0.06 | Nickel |
| *Lathe Machines | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | NA |
| *Machine Centers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | NA |
| *CT1 through CT3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | NA |
| ATF-TANK | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.27E-03 | 0.00 | 0 | 0.00 | 0.00 | NA |
| Dip Tanks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.10 | 0.00 | 0 | 0.00 | 0.00 | NA |
| Total | 1.83 | 2.38 | 2.38 | 0.06 | 9.61 | 25.34 | 8.07 | 11605 | 0.86 | 0.25 | Toluene |

*The lathe machines and the machining center use a water based coolant with low VOC and HAP content and is diluted 90% with water, leading to negligible emissions.

CT1 through CT3 are water cooling towers that are sealed and release no emissions.

Assumes PM10 = PM2.5

| Controlled Potential to Emit (tons/year) | | | | | | | | | | | |
|--|-------------|------------------|-------------------|-----------------|-----------------|--------------|-------------|--------------|-------------|-------------------------------|------------------|
| Emission Units/IDs | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOC | CO | GHGs | HAP | Worst Single HAP (Toluene) | |
| PB1 | 0.78 | 0.78 | 0.78 | 0.00 | 0.00 | 2.74 | 0.00 | 0 | 0.00 | 0.00 | NA |
| AT-BOOTH | 0.21 | 0.21 | 0.21 | 0.00 | 0.00 | 1.65 | 0.00 | 0 | 0.00 | 0.00 | NA |
| CFN2001 | 0.39 | 0.39 | 0.39 | 0.00 | 0.00 | 0.63 | 0.00 | 0 | 0.31 | 0.25 | Toluene |
| ACL-01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.21 | 0.00 | 0 | 0.16 | 0.16 | Phenol |
| Degreasers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0 | 0.00 | 0.00 | NA |
| Mineral Spirits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.08 | 0.00 | 0 | 0.00 | 0.00 | NA |
| BL-01 through BL-04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0 | 0.14 | 0.08 | Salt of Chromium |
| Natural Gas Combustion | 0.18 | 0.73 | 0.73 | 0.06 | 9.61 | 0.53 | 8.07 | 11605 | 0.18 | 3.27E-04 | Toluene |
| MIG Welders | 0.26 | 0.26 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.06 | 0.06 | Nickel |
| *Lathe Machines | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | NA |
| *Machine Centers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | NA |
| *CT1 through CT3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | NA |
| ATF-TANK | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.27E-03 | 0.00 | 0 | 0.00 | 0.00 | NA |
| Dip Tanks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.10 | 0.00 | 0 | 0.00 | 0.00 | NA |
| Total | 1.83 | 2.38 | 2.38 | 0.06 | 9.61 | 21.83 | 8.07 | 11605 | 0.86 | 0.25 | Toluene |

*The lathe machines and the machining center use a water based coolant with low VOC and HAP content and is diluted 90% with water, leading to negligible emissions.

CT1 through CT3 are water cooling towers that are sealed and release no emissions.

Assumes PM10 = PM2.5

**Appendix A: Emissions Calculations
VOCs and Particulate
(PB1) Rust Prevention Application-T/M Line ASO100**

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

Volatile Organic Comounds (VOC) and Particulate Matter (PM)

| Process Unit ID | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/hr) | Gal of Mat. (gal/day) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC (lbs/hour) | Potential VOC (lbs/day) | Potential VOC (tons/year) | Particulate Potential (lb/hr) | Particulate Potential (tons/year) | lb VOC/ gal solids | Transfer Efficiency |
|----------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|----------------------|-----------------------|---|----------------------------------|--------------------------|-------------------------|---------------------------|-------------------------------|-----------------------------------|--------------------|---------------------|
| T/M Assembly RP Unit | 6.60 | 80.0% | 0.0% | 80.0% | 0.0% | 5.00% | 0.270 | 6.48 | 5.28 | 5.28 | 1.43 | 34.21 | 6.24 | 0.18 | 0.78 | 105.60 | 50% |

| | | | | | |
|----------------------------------|-------------|--------------|-------------|-------------|-------------|
| Total Unlimited Emissions | 1.43 | 34.21 | 6.24 | 0.18 | 0.78 |
| Total Limited Emissions | | 15.00 | 2.74 | | |

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/hr) * (24 hours/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/hr) * (24 hours/day) * (365 days/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = Density (lb/gal) * Gal of Material (gal/hr) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (24 hours/day) * (365 days/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
 Total = Worst Coating + Sum of all solvents used

No HAPs are present in the product being used

**Appendix A: Emissions Calculations
VOC and HAPs**

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

| Material | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Maximum Usage (gal/hr) | Gal of Mat. (gal/day) | lb VOC/ gallon of coating less water | lb VOC/ gallon of coating | Potential VOC (lb/hr) | Potential VOC (lb/day) | VOC Potential (ton/yr) | Particulate Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency | |
|------------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|------------------------|-----------------------|--------------------------------------|---------------------------|-----------------------|------------------------|------------------------|--------------------------------|-----------------------|---------------------|--|
| Manual Spot Cleaner | 6.09 | 100.00% | 0.0% | 100.0% | 0.0% | 0.00% | 0.04 | 1.00 | 6.09 | 6.09 | 0.25 | 6.09 | 1.11 | 0.00 | N/A | 50% | |
| Rust Inhibitor | 7.49 | 100.00% | 21.6% | 78.4% | 0.0% | 0.00% | 0.02 | 0.50 | 5.87 | 5.87 | 0.12 | 2.94 | 0.54 | 0.00 | N/A | 50% | |
| Pinpoint Leak Detector | 11.68 | 80.00% | 80.0% | 0.0% | 0.0% | 0.00% | 0.04 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | N/A | 50% | |
| Totals | | | | | | | 0.10 | 2.50 | | | 0.38 | 9.02 | 1.65 | 0.21 | (Uncontrolled) | | |
| | | | | | | | | | | | | | | | 0.01 | (Controlled) | |

Methodology:

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Maximum (gal/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Maximum (gal/hr) * (24hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Maximum (gal/hr) * (8760 hr/yr) * (1 ton/2000lbs)
Particulate Potential Tons per Year = (gal/hr) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) * (1 ton/2000lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
* Assumes 95% control efficiency.

No HAPs are present in the product being used

**Appendix A: Emissions Calculations
VOCs, Particulate, HAPs
From Surface Coating Operations
Kaizen Paint Booth (CFN2001)**

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

| MSDS | Type of Solid | Density of Solid (lb/gal) | Weight % Solid | Volume % Solid | Other Solids | Weight % of Other Solids | Volume % of Other Solids | Total Volume % All Solids | Total Weight % All Solids |
|-------|-------------------|---------------------------|----------------|----------------|--------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 41295 | Acrylic Alkyd | 8.77 | 15.7% | 11.40% | | | | 11.4% | 15.7% |
| 39610 | Zinc | 59.58 | 47.0% | 7.57% | Unknown | 3.9% | 4.4% | 12.0% | 50.9% |
| 41559 | Titanium Dioxide | 35.55 | 4.0% | 0.72% | Unknown | 15.6% | 11.3% | 12.0% | 19.6% |
| 41560 | Calcium Carbonate | 24.45 | 17.0% | 4.85% | Unknown | 16.8% | 13.2% | 18.0% | 33.8% |
| 41555 | Carbon Black | 15.04 | 4.0% | 1.70% | Unknown | 11.8% | 7.3% | 9.0% | 15.8% |

Volatle Organic Comounds (VOC) and Particulate Matter (PM)

| MSDS | Material | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water + Non-VOCs | Total Weight % All Solids | Weight % VOCs | Volume % Water + Non-VOCs |
|-------|---|------------------|------------------------------------|---------------------------|---------------------------|---------------|---------------------------|
| 41295 | Aerove RustProof (solvent based) Aerosol | 6.37 | 84.3% | 39.0% | 15.7% | 45.3% | 37.9% |
| 39610 | Sherwin-Williams Zinc-Rich Cold Galvanizing | 9.60 | 49.1% | 0% | 50.9% | 49.1% | 0% |
| 41559 | Sherwin-Williams Purple Aerosol | 6.41 | 80.4% | 26.0% | 19.6% | 54.4% | 25.4% |
| 41560 | Sherwin-Williams Sun Glow Orange Aerosol | 6.98 | 66.2% | 15.0% | 33.8% | 51.2% | 16.0% |
| 41555 | Gloss Black Aerosol | 6.39 | 84.2% | 19.0% | 15.8% | 65.2% | 18.5% |

*Maximum Paint Usage provided by source was estimated at 0.0303 gal/hr by doubling the actual paint usage of 0.0151 gal/hr

| MSDS | Material | Total Volume % All Solids | Volume % Volatile (H2O & Organics) | Maximum Paint Usage (gal/hr)* | Maximum Paint Usage (gal/day) | Maximum Paint Usage (lbs/hour) | Pounds VOC per gallon of coating less water and non-VOCs | Pounds VOC per gallon of coating | Potential VOC (lbs/hr) | Potential VOC (lbs/day) | Potential VOC (tons/year) | Particulate Potential (lb/day) | Particulate Potential (tons/yr) | lb VOC per gal solids | Transfer Efficiency |
|---------------------------|---|---------------------------|------------------------------------|-------------------------------|-------------------------------|--------------------------------|--|----------------------------------|------------------------|-------------------------|---------------------------|--------------------------------|---------------------------------|-----------------------|---------------------|
| 41295 | Aerove RustProof (solvent based) Aerosol | 11.4% | 88.6% | 0.0303 | 0.73 | 0.193 | 4.64 | 2.89 | 0.09 | 2.10 | 0.38 | 0.44 | 0.08 | 25.31 | 40% |
| 39610 | Sherwin-Williams Zinc-Rich Cold Galvanizing | 12.0% | 88.0% | 0.0303 | 0.73 | 0.291 | 4.71 | 4.71 | 0.14 | 3.42 | 0.63 | 2.13 | 0.39 | 39.24 | 40% |
| 41559 | Sherwin-Williams Purple Aerosol | 12.0% | 88.0% | 0.0303 | 0.73 | 0.194 | 4.68 | 3.49 | 0.11 | 2.54 | 0.46 | 0.55 | 0.10 | 29.07 | 40% |
| 41560 | Sherwin-Williams Sun Glow Orange Aerosol | 18.0% | 82.0% | 0.0303 | 0.73 | 0.211 | 4.25 | 3.57 | 0.11 | 2.60 | 0.47 | 1.03 | 0.19 | 19.83 | 40% |
| 41555 | Gloss Black Aerosol | 9.0% | 91.0% | 0.0303 | 0.73 | 0.194 | 5.11 | 4.17 | 0.13 | 3.03 | 0.55 | 0.44 | 0.08 | 46.31 | 40% |
| Worst Case Coating | | | | | 0.73 | | | | 0.14 | 3.42 | 0.63 | 2.13 | 0.39 | | |

METHODOLOGY

Volume % of Solids = Density of Paint (lb/gal) * Weight % of Solids / Density of Solids (lb/gal)
 Maximum Paint Usage (lbs/hr) = Maximum Paint Usage (gal/hr) * Density of Paint (lb/gal)
 Potential VOC Pounds per Hour = Maximum Paint Usage (lbs/hr) * Weight % VOCs
 Potential VOC Pounds per Day = Potential VOC (lbs/hr) * (24 hours/day)

Pounds of VOC per Gallon Coating less Water and non-VOCs = (Density (lb/gal) * Weight % VOCs) / (1-Volume % water and non-VOCs)
 Pounds of VOC per Gallon Coating Potential VOC Tons per Year = Potential VOC (lbs/day) * (365 days/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (gal/day * (lbs/gal) * (Weight % Solids) * (1-Transfer efficiency) * (365 days/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % VOCs) / (Volume % solids)

Hazardous Air Pollutants (HAPs)

| MSDS | Material | Maximum Paint Usage (lbs/hr) | Weight % Hexane | Weight % Xylene | Weight % Toluene | Weight % Ethyl Benzene | Hexane Emissions (ton/yr) | Xylene Emissions (ton/yr) | Toluene Emissions (ton/yr) | Ethyl Benzene Emissions (ton/yr) | Total HAPs (ton/yr) |
|---------------------------|---|------------------------------|-----------------|-----------------|------------------|------------------------|---------------------------|---------------------------|----------------------------|----------------------------------|---------------------|
| 41295 | Aerove RustProof (solvent based) Aerosol | 0.193 | | 12.00% | | 2.00% | | 0.10 | | 0.02 | 0.12 |
| 39610 | Sherwin-Williams Zinc-Rich Cold Galvanizing | 0.291 | | | 5.00% | | | | 0.06 | | 0.06 |
| 41559 | Sherwin-Williams Purple Aerosol | 0.194 | | 23.00% | | 4.00% | | 0.20 | | 0.03 | 0.23 |
| 41560 | Sherwin-Williams Sun Glow Orange Aerosol | 0.211 | 1.00% | 12.00% | | 2.00% | 0.009 | 0.11 | | 0.02 | 0.14 |
| 41555 | Gloss Black Aerosol | 0.194 | | 7.00% | 29.00% | 1.00% | | 0.06 | 0.25 | 0.01 | 0.31 |
| Worst Case Coating | | | | | | | 0.009 | 0.20 | 0.25 | 0.03 | 0.31 |

Abbreviations

EB = Ethyl Benzene
 MEK = Methyl Ethyl Ketone

METHODOLOGY

HAPS emission rate (tons/yr) = Maximum Paint Usage (lbs/hr) * Weight % HAP * 24 hours/day * 365 days/yr * 1 ton/2000 lbs

Appendix A: Emissions Calculations
VOC and Particulate
ACL-01 Adhesive Line Surface Coating Material Usage

Page 5 of 12 of TSD App. A

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

Adhesive Operation - ACL-01

| Process/Coating ID | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Total Potential Annual Usage (lbs/yr) | Total Potential Annual Usage (gal/day) | Total Actual Annual Usage** (lbs/yr) | Actual VOC (tons/yr)** | Potential VOC (tons/yr) | Potential VOC (lbs/day) | Particulate Potential (tons/yr) | lb VOC/gal solids | Transfer Efficiency* |
|--------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|---------------------------------------|--|--------------------------------------|------------------------|-------------------------|-------------------------|---------------------------------|-------------------|----------------------|
| Cemedine R954 | 8.17 | 100.0% | 45.1% | 54.9% | 45.1% | 0.0% | 6618.0 | 2.22 | 3626.0 | 1.00 | 1.82 | 9.95 | 0.00 | 0.00 | 100% |
| MEK Solvent | 6.76 | 100.0% | 0.00% | 100.0% | 0.0% | 0.0% | 781.0 | 0.32 | 428.0 | 0.21 | 0.39 | 2.14 | 0.00 | 0.00 | 100% |
| Totals | | | | | | | 7399.0 | 2.54 | 4054.0 | 1.21 | 2.21 | 12.09 | 0.00 | | |

* Transfer efficiency is 100% due to the fact that application is done through a brush.

** Actual usage of coating per year

PTE of HAPS

| Process/Coating ID | Total Potential Annual Usage (lb/yr) | Weight % Phenol | Potential Phenol Emissions (tons/yr) |
|---------------------|--------------------------------------|-----------------|--------------------------------------|
| Cemedine R954 lb/yr | 6,618 | 4.90% | 0.16 |

Methodology:

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Sum of worst case coatings in each booth

**Appendix A: Emissions Calculations
VOCs
Degreasing Operations**

**Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton**

Volatile Organic Comounds (VOC) and Particulate Matter (PM)

| Process | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Number of Degreasing Units | Gal of Mat. (gal/day) Per Unit | Total Gal of Mat. (gal/day) | Pounds VOC per gallon of degreaser less water | Pounds VOC per gallon of degreaser | Degreaser Recovered As Waste % | Potential VOC (lbs/hour) | Potential VOC (lbs/day) | Potential VOC (tons/year) |
|--|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|----------------------------|--------------------------------|-----------------------------|---|------------------------------------|--------------------------------|--------------------------|-------------------------|---------------------------|
| Degreasing Operations (Kleen-Eze 315)* | 8.845 | 100.0% | 92.0% | 8.0% | 0.0% | 0.00% | 20 | 0.125 | 2.5 | 0.71 | 0.71 | 50% | 0.04 | 0.88 | 0.16 |
| New Degreasing Operations (Citrine Clean 30)** | 8.840 | 100.0% | 80.0% | 20.0% | 0.0% | 0.00% | 3 | 0.125 | 0.4 | 1.77 | 1.77 | 50% | 0.01 | 0.33 | 0.06 |

*Degreasing Operations include the following 22 Degreasing Units:

ATCL #s 002, 003, 004, 005, 006, 007, 008, 009-01, 010, 013, 014,
CCL #s 0015, 0016, 0017, 0020, 0023, 0024, 0025, and 3000
SMM # 1008

**Degreasing Operations include the following 3 Degreasing Units:

AT-WASH1, CCL0026, and CCL0027

| | | | |
|---------------|-------------|-------------|-------------|
| Totals | 0.05 | 1.22 | 0.22 |
|---------------|-------------|-------------|-------------|

*Kleen-Eze 315 is used as the degreasing fluid. Based on the MSDS and additional information obtained from the manufacturer (Miller Oil of Indiana, Inc.), Kleen-Eze 315 is a water based alkaline cleaner that contains two organic ingredients, ethanalamine (3% by weight) and triethanolamine (5% by weight), which are considered as volatile organic compounds (VOCs) as defined by 40 CFR 51 Subpart F Section 51.100. Kleen-Eze 315 contains no HAPs.

**Citrine Clean 30 is used as the degreasing fluid. Based on the MSDS, this product contains one organic ingredient, triethanolamine (20% by weight), which is considered a volatile organic compound (VOC) as defined by 40 CFR 51, Subpart F, Section 51.100. Citrine Clean 30 contains no HAPs.

Methodology:

Pounds of VOC per Gallon Degreaser less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Degreaser = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon degreaser (lb/gal) * Total Gal of Material (gal/day) * (100% - Degreaser Recovered as Waste %) / (24 hours/day)

Potential VOC Pounds per Day = Potential VOC Pounds per Hour * (24 hours/day)

Potential VOC Tons per Year = Potential VOC Pounds per Day * (365 days/yr) * (1 ton/2000 lbs)

Total = Worst Coating + Sum of all solvents used

No HAPs are present in the products being used

**Appendix A: Emissions Calculations
Mineral Spirit Wash Down**

Page 7 of 12 of TSD App. A

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

OMS Mineral Spirits Potential Emissions

| | Usage ⁽¹⁾ | Density | VOC wt% | VOC emissions | VOC emissions |
|------------|-----------------------------|----------------|----------------|----------------------|----------------------|
| | gal/yr | lb/gal | % | lb/yr | ton/yr |
| OMS | 657 | 6.34 | 100% | 4167.03 | 2.08 |

⁽¹⁾ Usage was determined by taking the maximum monthly usage (30 gallons/month) multiplied by the potential hours / actual hours (8760 / 4800)

**Appendix A: Emissions Calculations
VOC and Particulate
Four (4) Bonding Line Surface Coating Material Usage**

**Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton**

Bonding Operations

| Process/Coating ID | Density (Lb/Gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Total Potential Annual Usage (lb/year) | Total Actual Annual Usage (lb/year)** | Actual VOC (tons/yr)** | Potential VOC (tons/yr) | Potential VOC (lbs/day) | Particulate Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency* |
|----------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|--|---------------------------------------|------------------------|-------------------------|-------------------------|--------------------------------|-------------------|----------------------|
| Cemedine R954 | 8.17 | 100.00% | 45.10% | 54.90% | 45.10% | 0.00% | 567.0 | 311.0 | 0.09 | 0.16 | 0.85 | 0.00 | 0.00 | 100% |
| MEK Solvent | 6.76 | 100.00% | 0.00% | 100.00% | 0.00% | 0.00% | 313.0 | 171.0 | 0.09 | 0.16 | 0.86 | 0.00 | 0.00 | 100% |
| Ink 5157E | 6.76 | 100.00% | 0.00% | 100.00% | 0.00% | 10.00% | 408.0 | 223.7 | 0.11 | 0.20 | 1.12 | 0.00 | 0.00 | 100% |
| Solvent for Ink 5191 | 7.26 | 100.00% | 0.00% | 100.00% | 0.00% | 0.00% | 309.0 | 169.0 | 0.08 | 0.15 | 0.85 | 0.00 | 0.00 | 100% |

* Transfer efficiency is 100% due to the fact that application is done through a brush.

** Actual usage of coating per year

| | | | | |
|---------------------------------|-------------|-------------|--------------|-------------|
| Totals (1 bonding line) | 0.37 | 0.67 | 3.67 | 0.00 |
| Totals (4 bonding lines) | 1.47 | 2.68 | 14.70 | 0.00 |

PTE of HAPS

| Bonding BL-01 | Total Potential Annual Usage (lb/yr) | Weight % HAP | | Potential to Emit (tons/year) | | |
|---------------------------------|--------------------------------------|--------------|------------------|-------------------------------|------------------|-------------|
| | | Phenol | Salt Of Chromium | Phenol | Salt Of Chromium | Total HAPs |
| Cemedine R954 lb/yr | 567.3 | 4.9% | 0.0% | 0.014 | 0.0 | 0.014 |
| Ink 5157E (lb/yr) | 408.2 | 0.0% | 10.0% | 0.0 | 0.020 | 0.020 |
| Solvent for Ink 5191 (lb/yr) | 308.7 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 |
| Totals (1 bonding line) | | | | 0.01 | 0.02 | 0.03 |
| Totals (4 bonding lines) | | | | 0.06 | 0.08 | 0.14 |

Methodology:

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Sum of worst case coatings in each booth

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

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

| Emission Unit | Unit IDs | Number of Units | Unit Heat Input Capacity (MMBtu/hr) | Combined Total Heat Input Capacity (MMBtu/hr) | 6-2-4 Applicability | |
|------------------------|---|-----------------|-------------------------------------|---|---------------------|---------------|
| | | | | | Q (MMBtu/hr) | Pt (lb/MMBtu) |
| Rooftop Furnaces | RTF-D1 through RTF-D6, RTF-F1, RTF-F2, and RTF-D9 through RTF-D13 | 13 | 0.570 | 7.41 | NA | NA |
| Rooftop Furnace | RTF-B1 | 1 | 0.010 | 0.01 | NA | NA |
| Rooftop Furnaces | RTF-A1 through RTF-A7 | 7 | 0.800 | 5.6 | NA | NA |
| Rooftop Heating | C-1 through C-9 | 9 | 0.570 | 5.13 | NA | NA |
| Propeller Unit Heaters | PUH-B1 and PUH-B2 | 2 | 0.100 | 0.2 | NA | NA |
| Propeller Unit Heaters | D-1 through D-6 | 6 | 0.400 | 2.4 | NA | NA |
| Brazing Furnace | ATH003 | 1 | 0.635 | 0.635 | NA | NA |
| Air Make-up Unit | DF AMU-A1 | 1 | 0.400 | 0.4 | NA | NA |
| Water Heater | GWH#1 | 1 | 0.300 | 0.3 | 0.3 | 0.6* |
| Water Heater | GWH#2 | 1 | 0.300 | 0.3 | 0.3+0.3 | 0.6* |
| Total | | | | 22.385 | | |

Pt = 1.09 / Q^0.26

Where:

Pt = Pounds of Particulate matter emitted per million Btu (lb/MMBtu) heat input.

Q= Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.

*For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6.

| Heat Input Capacity MMBtu/hr | HHV mmBtu mmscf | Potential Throughput MMCF/yr |
|---------------------------------|-----------------------|---------------------------------|
| 22.4 | 1020 | 192.2 |

| Emission Factor in lb/MMCF | Pollutant | | | | | | |
|-------------------------------|-----------|-------|---------------|-----|--------------------|-----|-----|
| | PM* | PM10* | direct PM2.5* | SO2 | NOx | VOC | CO |
| | 1.9 | 7.6 | 7.6 | 0.6 | 100 **see below | 5.5 | 84 |
| Potential Emission in tons/yr | 0.2 | 0.7 | 0.7 | 0.1 | 9.6 | 0.5 | 8.1 |

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

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

Hazardous Air Pollutants (HAPs)

| | HAPs - Organics | | | | |
|-------------------------------|-----------------|-----------------|--------------|---------|---------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Emission Factor in lb/MMcf | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 2.0E-04 | 1.2E-04 | 7.2E-03 | 0.17 | 3.3E-04 |

| | HAPs - Metals | | | | |
|-------------------------------|---------------|---------|----------|-----------|---------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| Emission Factor in lb/MMcf | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 4.8E-05 | 1.1E-04 | 1.3E-04 | 3.7E-05 | 2.0E-04 |

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

Potential to Emit Total HAPs (tons/yr) 0.18

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

Greenhouse Gases (GHGs)

| | Greenhouse Gas | | |
|---------------------------------------|----------------|-----|-----|
| | CO2 | CH4 | N2O |
| Emission Factor in lb/MMcf | 120,000 | 2.3 | 2.2 |
| Potential Emission in tons/yr | 11,535 | 0.2 | 0.2 |
| Summed Potential Emissions in tons/yr | 11,535 | | |
| CO2e Total in tons/yr | 11,605 | | |

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 (21) + N2O Potential Emission ton/yr x N2O

**Appendix A: Emissions Calculations
VOCs, Particulate, HAPs
Welding Operations**

Page 10 of 12 of TSD App. A

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

Particulate Matter (PM) and Hazardous Air Pollutants (HAPs)

| PROCESS | Max. electrode consumption per station (lbs/hr) | Max. electrode consumption per station (lbs/day) | Number of Stations | Max. electrode consumption (lbs/year) | EMISSION FACTORS* (lb pollutant/lb electrode) | | | | EMISSIONS (lbs/hr) | | | | HAPS (lbs/hr) |
|--------------------------------|---|--|--------------------|---------------------------------------|--|---------|---------|---------|-----------------------|---------|---------|---------|------------------|
| | | | | | PM = PM10 | Cr | Mn | Ni | PM = PM10 | Cr | Mn | Ni | |
| WELDING | | | | | | | | | | | | | |
| Gas Metal Arc Welding (ERNiCu) | 2.75 | 66 | 8 | 192,720 | 2.0E-03 | 1.0E-06 | 2.2E-05 | 4.5E-04 | 4.4E-02 | 2.2E-05 | 4.8E-04 | 9.9E-03 | 1.0E-02 |
| Gas Metal Arc Welding (ERNiCu) | 8.25 | 198 | 1 | 72,270 | 2.00E-03 | 1.0E-06 | 2.2E-05 | 4.5E-04 | 1.7E-02 | 8.3E-06 | 1.8E-04 | 3.7E-03 | 3.9E-03 |

Abbreviations

Cr = Chromium
Ni = Nickel
Mn = Manganese

| | | | | | |
|--|------|---------|---------|------|---------|
| Total Potential Emissions lbs/hr | 0.06 | 3.0E-05 | 6.7E-04 | 0.01 | 1.4E-02 |
| Total Potential Emissions lbs/day | 1.45 | 7.3E-04 | 0.02 | 0.33 | 0.34 |
| Total Potential Emissions tons/year | 0.26 | 1.3E-04 | 2.9E-03 | 0.06 | 0.06 |

Methodology:

*Emission Factors are default values for Gas Metal Arc Welding (GMAW) (SCC 3-09-052) Electrode Type ERNiCu, AP-42
Welding emissions, lb/hr: (# of stations) * (max. lbs of electrode used/hr/station) * (emission factor, lb. pollutant/lb. of electrode used)
Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

Appendix A: Emission Calculations
ATF-TANK Emissions

Page 11 of 12 of TSD App. A

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

| Process | Annual Throughput (gallons/yr) | Potential VOC Emissions (tons/yr) |
|---|--------------------------------|-----------------------------------|
| Automatic Transmission Fluid (ATF) Storage Tank | 132,500 | 0.001 |

All throughputs based on maximum annual production as provided by the source.
Emissions were calculated by the Source using EPA's Tanks 4.09(d) and have been verified by IDEM.

**Appendix A: Emissions Calculations
Dip Tanks**

Page 12 of 12 of TSD App. A

Company Name: Aisin Drivetrain, Inc.
Source Address: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: M071-32610-00030
Reviewer: Deena Patton

ATF Dip Tank Potential Emissions**Solvent Data:**

| Material | Manufacturer | Product Density [lb/gal] ⁽¹⁾ | VOC Content [lb/gal] |
|-------------------|----------------|--|-------------------------|
| Toyota ATF WS oil | Nippon Oil Ltd | 7.1 | 7.1 |

Potential Emissions:

| Process | Max. Annual Oil Usage [gal/yr] ⁽²⁾ | Max. Hourly Oil Usage [gal/hr] ⁽³⁾ | Potential VOC Emissions [lb/hr] ⁽⁴⁾ | Potential VOC Emissions [lb/day] | Potential VOC Emissions [tpy] ⁽⁵⁾ |
|--|--|--|---|-------------------------------------|---|
| One (1) dip tank installed in 2007 with 10 gallon capacity utilizing Toyota ATF WS oil. | 347 | 0.040 | 0.283 | 6.8 | 1.24 |
| Two (2) dip tanks, installed in 2007 and 2008, each with 90 gallon capacity utilizing Toyota ATF WS Oil. | 2200 | 0.251 | 1.794 | 43.1 | 7.86 |

*The source sends the used oil off site for recycling.

Additional Information:

(1) Product Density [lb/gal] = Specific Gravity x 8.34 lb/gal = 0.856 x 8.34

(2) Maximum oil usage was determined by taking the typical annual Oil usage (190 gallons) x (8,760 hours / 4,800hours) to estimate a maximum annual Oil usage. These hour numbers are identical to what was used for the bonding lines

(3) Max. Hourly Oil Usage [gal/hr] = Max. Annual Oil Usage [gal/yr] / 8,760 hr/yr

(4) Potential VOC Emissions [lb/hr] = Max. Hourly Oil Usage [gal/hr] x VOC Content [lb/gal]

(5) Potential VOC Emissions [tpy] = Potential VOC Emissions [lb/hr] x 8,760 hr/yr / 2,000 lb/ton



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Rob Combs
AISIN Drivetrain, Inc.
1001 Industrial Way
Crothersville, IN 47229

DATE: February 27, 2013

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Minor Source Operating Permit Renewal
071-32610-00030

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Scott Shade, Responsible Official
Jim Dodson, Cornerstone Environmental
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
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Toll Free (800) 451-6027
www.idem.IN.gov

February 27, 2013

TO: Crothersville Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: AISIN Drivetrain, Inc.
Permit Number: 071-32610-00030

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

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| | | | | | | | | | | | Remarks |
| 1 | | Rob Combs AISIN Drivetrain, Inc. 1001 Industrial Way Crothersville IN 47229 (Source CAATS) | | | | | | | | | |
| 2 | | Scott Shade VP AISIN Drivetrain, Inc. 1001 Industrial Way Crothersville IN 47229 (RO CAATS) | | | | | | | | | |
| 3 | | Jackson County Commissioner Jackson County Courthouse Brownstown IN 47220 (Local Official) | | | | | | | | | |
| 4 | | Mr. Tome Earnhart 3960 N. CR 300 W. North Vernon IN 47265 (Affected Party) | | | | | | | | | |
| 5 | | Jackson County Health Department 801 West 2nd Street Seymour IN 47274-2711 (Health Department) | | | | | | | | | |
| 6 | | Crothersville Town Council 101 W. Howard St. Crothersville IN 47229 (Local Official) | | | | | | | | | |
| 7 | | Crothersville Public Library 120 West Main Street Crothersville IN 47229 (Library) | | | | | | | | | |
| 8 | | Mr. Jim Dodson Cornerstone Environmental 880 Lennox Ct Zionsville IN 46077 (Consultant) | | | | | | | | | |
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