



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: June 12, 2007
RE: AISIN DRIVETRAIN, INC. / 071-24764-00030
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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-AM.dot 03/23/06



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
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Mark Warren
Aisin Drivetrain, Inc.
1001 Industrial Way
Crothersville, Indiana 47229

June 12, 2007

Re: Notice Only Change No. 071-24764-00030
Registered Construction and Operation Status

Dear Mr. Warren:

Aisin Drivetrain, Inc. was issued a Registration No. 071-12840-00030 on December 15, 2000, for a motor vehicle parts/accessories and power transmission equipment manufacturing plant located at 1001 Industrial Way, Crothersville, Indiana. A letter notifying the Office of Air Quality (OAQ) of a notice-only change to the permit was received on May 10, 2007. The source requested to update the Registration to reflect the addition of a new bonding line. To minimize future changes to this Registration, OAQ has deleted the name and/or title of the Authorized Individual from this Registration. The IDEM, OAQ mailing address has also been updated to include the mailing code. These changes are considered notice-only changes pursuant to 326 IAC 2-5.5-6(d). No new state or federal rules are applicable to this source. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following motor vehicle parts/accessories and power transmission equipment manufacturing plant, located at 1001 Industrial Way, Crothersville, Indiana, is classified as registered:

- (a) One (1) paint booth (PB1) on Drivetrain Assembly Line (T/M Line ASO100) connected to dry filters exhausting to Stack S1. The method of application is air atomization, touch-up coating transmission parts. Coating is limited to 24 ounces or less per day;
- (b) One (1) natural gas fired brazing furnace (ATHT003), added in the year 2000, rated at 0.635 MMBtu/hr, exhausting to stack S3;
- (c) Twenty-nine (29) natural gas fired rooftop furnaces, rated between 0.01 and 0.8 MMBtu/hr, with a combined capacity rating of 17.35 MMBtu/hr;
- (d) Eight (8) natural gas propeller unit heaters, rated between 0.1 and 0.4 MMBtu/hr, with a combined capacity rating of 2.6 MMBtu/hr;
- (e) One (1) 0.4 MMBtu/hr direct-fired natural gas air make-up unit;
- (f) One (1) 0.3 MMBtu/hr natural gas water heater;
- (g) 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;
- (h) One (1) aluminum-anodizing tank, added in the year 2001, with particulate emissions controlled by a packed bed fume scrubber;

- (i) Eleven (11) degreasers (ATCL003 to ATCL007, ATCL014, CCK0015, CCK1000, CCK1001, SCL1018 and SCL1020) 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;
 - (j) Three (3) degreasers (ATCL011, ATCL012, and CCL0016) using 0.125 gallons of waterbased alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, not controlled by mist collectors;
 - (k) Three (3) conveyORIZED degreasing operations (ATCL001, 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 to the interior;
 - (l) Three (3) conveyORIZED degreasing operations (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;
 - (m) Five (5) lathe machines for machining controlled by a mist collector, exhausting to the interior;
 - (n) Twenty two (22) machine centers controlled by mist collectors, exhausting to the interior;
 - (o) Three (3) process water cooling towers, added in the year 2000, identified as CT1, CT2 and CT3;
 - (p) One (1) paint booth located in Kaizen (continuous improvement) area. Particulate emissions controlled by Jet Collector venting to interior of building. Non-production, intermittent use of aerosol spray paints;
 - (q) One (1) rust preventative spray unit (ATCL009-03) (on the Torque Converter Final Assembly line) using 2.5 gallons of hydrocarbon solvent per day (24 hour operation), controlled by a mist collector exhausting to stack S4, same as three (3) conveyORIZED degreasing operations listed above;
 - (r) One (1) rust preventative spray unit (on T/M Line ASO100) using 0.27 gallons of hydrocarbon solvent per hour, controlled by a mist collector that also controls paint booth PB1, exhausting to stack S1;
- One (1) adhesive coating line, identified as ACL-01, to be 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 and S6;
- (t) One (1) natural gas fired dryer, rated at 0.198 MMBtu/hr, to be constructed in December 2006, exhausting to Stack S7; and
 - (u) One (1) bonding line performing bonding, identified as BL-01, to be constructed in December 2006, processing 25,228,800 clutch plate pieces per year, adhesive recoating, code printing and dipping operations on clutch plates, exhausting to Stacks S8 and S9.

- (v) One (1) batch mixing operation identified as Silent Guard Mixer (SG MIX 1) with a maximum material input of 12,380 pounds per batch and 84 batches per month. 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 MIX 1. 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.
- (w) One (1) bonding line performing bonding using brush application method, identified as BL-02, approved for construction in 2007, processing 25,228,800 clutch plate pieces per year, code printing and dipping operations on clutch plates, and exhausting to Stacks S10 and S11.
- (x) One (1) manual parts cleaning operation for bonding line, using spray cans containing mineral spirits, approved for construction in 2007.

The following conditions shall be applicable:

- (a) 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 the permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (b) 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.
- (c) The VOC usage at the Kaizen area paint booth shall be limited to less than fifteen (15) pounds per day. VOC emissions from the rust preventative unit on T/M Line ASO100 shall be below fifteen (15) pounds per day. Consequently, the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) will not apply.

To document compliance with the above VOC emission limit of fifteen (15) pounds per day, the Permittee shall maintain records in accordance with (1) through (7) below. Records maintained for (1) through (7) shall be complete and sufficient to establish compliance with this VOC emission limit.

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

- (3) The volume weighted VOC content of the coatings used for each day;
 - (4) The cleanup solvent usage for each day;
 - (5) The total VOC usage for each day; and
 - (6) The total weight of VOCs emitted for each compliance period.
 - (7) All records shall be retained for a period of at least five (5) years. 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.
- (d) Pursuant 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for each of the cold cleaner degreasing units (ATCL003 to ATCL007, ATCL014, CCK0015, CCK1000, CCK1001, SCL1018, SCL1020, ATCL011, ATCL012, and CCL0016), the owner or operator shall ensure that the following control equipment requirements are met for each of the cold cleaner degreasing units:
- (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 a 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 is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (e) Pursuant 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for each of the cold cleaner degreasing units (ATCL003 to ATCL007, ATCL014, CCK0015, CCK1000, CCK1001, SCL1018, SCL1020, ATCL011, ATCL012, and CCL0016), the owner or operator shall ensure that the following operating requirements are met for each of the cold cleaner degreasing units:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or unit dripping ceases.
 - (3) 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.
- (f) Pursuant 326 IAC 8-3-7(a) (Conveyorized Degreaser Operation and Control), for each of the conveyorized degreasing units (ATCL001, ATCL002, ATCL010, ATCL008, ATCL009-01, and ATCL013), the owner or operator 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 system 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) or 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 326 IAC 8-3-7(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.

- (g) Pursuant 326 IAC 8-3-7(b) (Conveyorized Degreaser Operation and Control), for each of the conveyorized degreasing units (ATCL001, ATCL002, ATCL010, ATCL008, ATCL009-01, and ATCL013), the owner or operator 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 threenths (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.

- (h) Pursuant to 326 IAC 6-3-2 (Process Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the batch mixing operation (SG MIX 1) shall not exceed 3.77 pounds per hour when operating at a process weight rate of 0.833 tons per hour.

The pounds per hour limitation was calculated using the following equation:

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

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

The dust collector (DC MIX 1) shall be in operation at all times the powder material is being loaded in to the batch mixer, in order to comply with this limit.

This source shall remain a registered source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

Compliance Data Section
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Original Signed By:

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

AY/EVP

cc: File - Jackson County
Jackson County Health Department
Air Compliance – Vaughn Ison
Permit Tracking
Compliance Data Section

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3)

Company Name:	Aisin Drivetrain, Inc.
Address:	1001 Industrial Way, Crothersville, IN 47229
City:	Crothersville
Phone #:	812-793-2427
Registration #:	071-24029-00030

Certification by the Authorized Individual
I hereby certify that Trelleborg Sealing Solutions, Seals Division is still in operation and is in compliance with the requirements of Registration No. 003-24692-00219.
Name (typed):
Title:
Signature:
Date:
Phone Number:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Notice-Only Change

Source Background and Description

Source Name:	Aisin Drivetrain, Inc.
Source Location:	1001 Industrial Way, Crothersville, IN 47229
County:	Jackson
SIC Code:	3714
Notice-Only Change No.:	071-24764-00030
Permit Reviewer:	Adeel Yousuf/EVP

The Office of Air Quality (OAQ) has reviewed an application from Aisin Drivetrain, Inc. on May 10, 2007, relating to the revision of their existing Registration Permit Number 071-12840-00030 issued on December 15, 2000.

New Emission Units and Pollution Control Equipment

The application includes information relating to the construction and operation of the following equipment:

- (a) One (1) bonding line performing bonding using brush application method, identified as BL-02, approved for construction in 2007, processing 25,228,800 clutch plate pieces per year, code printing and dipping operations on clutch plates, and exhausting to Stacks S10 and S11.
- (b) One (1) manual parts cleaning operation for bonding line, using spray cans containing mineral spirits, approved for construction in 2007.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following new emission units and pollution control devices during this review process:

- (a) One (1) paint booth (PB1) on Drivetrain Assembly Line (T/M Line ASO100) connected to dry filters exhausting to Stack S1. The method of application is air atomization, touch-up coating transmission parts. Coating is limited to 24 ounces or less per day;
- (b) One (1) natural gas fired brazing furnace (ATHT003), added in the year 2000, rated at 0.635 MMBtu/hr, exhausting to stack S3;
- (c) Twenty-nine (29) natural gas fired rooftop furnaces, rated between 0.01 and 0.8 MMBtu/hr, with a combined capacity rating of 17.35 MMBtu/hr;
- (d) Eight (8) natural gas propeller unit heaters, rated between 0.1 and 0.4 MMBtu/hr, with a combined capacity rating of 2.6 MMBtu/hr;
- (e) One (1) 0.4 MMBtu/hr direct-fired natural gas air make-up unit;
- (f) One (1) 0.3 MMBtu/hr natural gas water heater;
- (g) 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;

- (h) One (1) aluminum-anodizing tank, added in the year 2001, with particulate emissions controlled by a packed bed fume scrubber;
- (i) Eleven (11) degreasers (ATCL003 to ATCL007, ATCL014, CCK0015, CCK1000, CCK1001, SCL1018 and SCL1020) 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;
- (j) Three (3) degreasers (ATCL011, ATCL012, and CCL0016) using 0.125 gallons of waterbased alkaline solvent per day (24 hour operation) for washing, cleaning, and degreasing steel metal parts, not controlled by mist collectors;
- (k) Three (3) conveyORIZED degreasing operations (ATCL001, 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 to the interior;
- (l) Three (3) conveyORIZED degreasing operations (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;
- (m) Five (5) lathe machines for machining controlled by a mist collector, exhausting to the interior;
- (n) Twenty two (22) machine centers controlled by mist collectors, exhausting to the interior;
- (o) Three (3) process water cooling towers, added in the year 2000, identified as CT1, CT2 and CT3;
- (p) One (1) paint booth located in Kaizen (continuous improvement) area. Particulate emissions controlled by Jet Collector venting to interior of building. Non-production, intermittent use of aerosol spray paints;
- (q) One (1) rust preventative spray unit (ATCL009-03) (on the Torque Converter Final Assembly line) using 2.5 gallons of hydrocarbon solvent per day (24 hour operation), controlled by a mist collector exhausting to stack S4, same as three (3) conveyORIZED degreasing operations listed above;
- (r) One (1) rust preventative spray unit (on T/M Line ASO100) using 0.27 gallons of hydrocarbon solvent per hour, controlled by a mist collector that also controls paint booth PB1, exhausting to stack S1;
- (s) One (1) adhesive coating line, identified as ACL-01, to be 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 and S6;
- (t) One (1) natural gas fired dryer, rated at 0.198 MMBtu/hr, to be constructed in December 2006, exhausting to Stack S7; and
- (u) One (1) bonding line performing bonding, identified as BL-01, to be constructed in December 2006, processing 25,228,800 clutch plate pieces per year, adhesive recoating, code printing and dipping operations on clutch plates, exhausting to Stacks S8 and S9.

- (v) One (1) batch mixing operation identified as Silent Guard Mixer (SG MIX 1) with a maximum material input of 12,380 pounds per batch and 84 batches per month. 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 MIX 1. 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.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Registration 071-12840-00030, issued on December 15, 2000;
- (b) Registration Revision 071-14536-00030, issued on October 2, 2001;
- (c) Registration Revision 071-19647-00030, issued on November 17, 2004; and
- (d) Registration Revision 071-23660-00030, issued on October 16, 2006.
- (e) Registration Revision 071-24029-00030, issued on January 23, 2007.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 5).

Potential to Emit of the Notice-only Change Before Controls

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

Pollutant	Potential to Emit (tons/yr)
PM	0.00
PM ₁₀	0.00
SO ₂	0.00
VOC	3.98
CO	0.00
NO _x	0.00

HAPs	Potential to Emit (tons/yr)
Phenol	0.014
Total	0.014

Justification for Administrative Amendment

The potential to emit of VOC from the new operations is below the exemption level threshold, therefore, the modification is considered Notice-Only change pursuant to 326 IAC 2-5.5-6(d). No new state or federal rules are applicable to this source. The source shall continue to operate according to 326 IAC 2-5.5.

Potential to Emit of the Entire Source Before Controls

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

Pollutant	Potential to Emit (tons/yr)
PM	23.37
PM ₁₀	23.92
SO ₂	0.00
VOC	18.91
CO	7.95
NO _x	9.47

HAPs	Potential to Emit (tons/yr)
Single HAP	2.42
Total	3.83

- (a) The potential to emit of all criteria pollutants are less than 25 tons per year and the potential to emit of VOC is greater than levels listed in 326 IAC 2-1.1-3(e) (Exemptions). Therefore, the source is subject to the provisions of 326 IAC 2-5.5 (Registrations). A registration will be issued.
- (b) 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, the source is not subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

County Attainment Status

The source is located in Jackson County.

Pollutant	Status
PM-10	Attainment
PM-2.5	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NOx are considered when evaluating the rule applicability relating to ozone. Jackson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Jackson County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
- (c) Jackson County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.
- (e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.

Source Status

Existing Source PSD Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	23.37
PM-10	23.92
SO ₂	0.00
VOC	14.93
CO	7.95
NO _x	9.47
Single HAP	Less than 10
Combination HAPs	Less than 25

- (a) This source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) These emissions were based on the potential to emit of the existing units from the TSD for Registration Revision No. 071-24029-00030.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This is the fourth air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this registration for this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this registration for this source.

State Rule Applicability – Entire Source

The new emission unit does not trigger any new applicable state rules.

State Rule Applicability – Individual Equipment

326 IAC 8-3 (Degreasing Operations)

Parts cleaning operation for the bonding line is not subject to the requirements of 326 IAC 8-3. This rule applies to facilities performing organic solvent degreasing operations located anywhere in the state. The cleaning operation at this source is a manual operation using spray cans and the potential VOC emissions are less than 15 pounds per day. Therefore, the requirements of 326 IAC 8-3 do not apply.

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

Pursuant to 326 IAC 8-1-1(b), this source is not subject to 326 IAC 8-2-9 since the potential VOC emissions from the new emission unit (BL-02) is less than 15 pounds per day. Therefore, the requirements of 326 IAC 8-2-9 do not apply.

326 IAC 8-1-6 (General Volatile Organic Compound Reduction Requirements)

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, and which have potential volatile organic compound (VOC) emissions of 25 tons per year or more and are not subject to any other article 8 rules. The facilities subject to the requirements of 326 IAC 8-1-6 shall reduce VOC emissions by using best available control technology (BACT).

The potential VOC emissions from the new Bonding line and the cleaning operation are below the twenty-five (25) tons per year applicability threshold and therefore, the modification is not subject to the requirements of 326 IAC 8-1-6.

Recommendation

The staff recommends to the Commissioner that the operation 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.

A complete application for the purposes of this review was received on May 10, 2007.

Conclusion

The operation of this manufacturer of motor vehicle parts/accessories and power transmission equipment for the automobile industry shall be subject to the conditions of the Notice-Only Change No. 071-24764-00030.

Appendix A: Emissions Calculations

Company Name: Aisin Drivetrain, Inc.
Address City IN Zip: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: 071-24764-00030
Plt ID: 071-00030
Reviewer: AY/EVP
Date: May 30, 2007

Source-wide Potential Emissions Summary

Pollutant	Potential Emissions of Entire Source (Before New Units)	Potential Emissions of New Units	Potential Emissions of Entire Source (Including New Units)
	(tons/year)	(tons/year)	(tons/year)
PM	23.37	-	23.37
PM-10	23.91	-	23.91
NO_x	9.38	-	9.38
CO	7.88	-	7.88
VOCs	14.94	3.99	18.93
Highest Single HAP	2.27	0.014 (Phenol)	2.27
Combined HAPs	3.32	0.014	3.32

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

**Company Name: Aisin Drivetrain, Inc.
Address City IN Zip: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: 071-24764-00030
Plt ID: 071-00030
Reviewer: AY/EVP
Date: May 30, 2007**

Bonding Operation

Process/Coating ID	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Total Potential Annual Usage	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency*
							(lb/year)				
Cemedine R945	8.17	100.00%	45.10%	54.90%	45.10%	0.00%	567.00000	0.156	0.00	0.00	100%
MEK Solvent	6.76	100.00%	0.00%	100.00%	0.00%	0.00%	313.00000	0.157	0.00	0.00	100%
Ink 5157E	6.76	100.00%	0.00%	100.00%	0.00%	10.00%	408.00000	0.204	0.00	0.00	100%
Solvent for Ink 5191	7.26	100.00%	0.00%	100.00%	0.00%	0.00%	309.00000	0.155	0.00	0.00	100%

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

Potential Emissions	0.671	0.000
Controlled Potential Emissions		
	Controlled VOC tons per Year	Controlled PM tons/yr
Total Controlled Potential Emissions:	0.00	0.00

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
Bonding Line**

Company Name: Aisin Drivetrain, Inc.
Address City IN Zip: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: 071-24764-00030
Plt ID: 071-00030
Reviewer: AY/EVP
Date: May 30, 2007

Bonding Line Potential HAP Emissions

	Total Potential Annual Usage (lb/yr)	Phenol (108-95-2)
Cemedine R954 lb/yr	567	4.90%
MEK Solvent lb/yr	313	0.00%
Ink 5157E (lb/yr)	408	0.00%
Solvent for Ink 5191 (lb/yr)	309	0.00%
Total Tons/yr		0.014

PTE Single HAP:	0.014	tons/year
PtE Total HAPs:	0.014	tons/year

**Appendix A: Emissions Calculations
Bonding Line**

**Company Name: Aisin Drivetrain, Inc.
Address City IN Zip: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: 071-24764-00030
Plt ID: 071-00030
Reviewer: AY/EVP
Date: May 30, 2007**

ATF Dip Tank Potential Emissions

ATF dip tank:

One (1) dip tank to be installed in 2007 with 10 gallon capacity utilizing Toyota ATF WS oil.			
Solvent Data:			
Solvent Name	Manufacturer	Product Density [lb/gal] ⁽¹⁾	VOC Content [lb/gal]
Toyota ATF WS oil	Nippon Oil Ltd	7.1	7.1
Potential Emissions:			
Max. Annual Oil Usage [gal/yr] ⁽²⁾	Max. Hourly Oil Usage [gal/hr] ⁽³⁾	Potential VOC Emissions [lb/hr] ⁽⁴⁾	Potential VOC Emissions [tpy] ⁽⁵⁾
347	0.040	0.283	1.24
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

**Appendix A: Emissions Calculations
Bonding Line**

Company Name: Aisin Drivetrain, Inc.
Address City IN Zip: 1001 Industrial Way, Crothersville, IN 47229
Permit Number: 071-24764-00030
Plt ID: 071-00030
Reviewer: AY/EVP
Date: May 30, 2007

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)

note: OMS Mineral Spirits will be used in 32 oz spray bottles to wash down parts.