INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
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: May 2, 2008

RE: Chrysler, LLC / 159-25841-00017

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 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, 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 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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.

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Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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
FNTV-PMOD.doc 3/27/08

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Governor

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Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Ms. Mary Turner
Chrysler LLC
800 Chrysler Drive
Auburn Hills, MI 48326

May 2, 2008

Re: 159-25841-00017
Significant Permit Modification to
Part 70 No.: T 159-24130-00017

Dear Ms. Turner:

Chrysler LLC (formerly known as Daimler Chrysler Corporation) was issued a Part 70 Operating Permit T 159-24130-00017 on August 14, 2007 for a stationary automobile transmission manufacturing operation. A letter requesting changes to this permit was received on December 11, 2007. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

Upon further development of the Chrysler LLC Tipton, Indiana facility, the Permittee has decided to change the specifications of some units, decrease the number of some units, install some new units, and increase the number of some units to be installed

All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire Part 70 Operating Permit as modified.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Kristen Layton, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or call at (800) 451-6027, and ask for Kristen Layton or extension 3-3031, or dial (317) 233-3031.

Sincerely/Original Signed By:

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

Attachments
KRL
cc: File – Tipton County
U.S. EPA, Region V
Tipton County Health Department
Air Compliance Section Inspector
Compliance Data Section

Administrative and Development

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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Chrysler LLC
Northeast Corner of State Road 28 and US 31
Tipton, Indiana 46072

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.
This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions

Operation Permit No.: 159-24130-00017	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: August 14, 2007 Expiration Date: August 14, 2012

First Significant Permit Modification No.: 159-25841-00017	
Issued by/Original Signed By: Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 2, 2008 Expiration Date: August 14, 2012

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary automobile transmission manufacturing operation.

Source Address:	Northeast Corner of State Road 28 and US 31, Tipton, Indiana 46072
Mailing Address:	800 Chrysler Drive, Auburn Hills, MI 48326
General Source Phone Number:	N/A
SIC Code:	3714
County Location:	Tipton
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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

(a) Five (5) shotpeening machines, identified as Shotpeen 1-5, approved for construction in 2008, each using a maximum of 52,800 pounds per hour of blast media, each equipped with a dedicated dry cartridge filter for particulate control, and exhausting inside the building or to ambient atmosphere.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

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

(a) Space heaters, process heaters, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(b) Combustion source flame safety purging on startup.

(c) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons, including:

(1) One (1) gasoline fuel storage tank, with a capacity less than 575 gallons.

(d) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month, including:

(1) One (1) diesel fuel storage tank, with a capacity of 500 gallons.

(e) The following VOC and HAP storage containers:

(1) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(f) Refractory storage not requiring air pollution control equipment.

(g) Machining where an aqueous cutting coolant continuously floods the machining interface.

(h) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment, including the following:

(1) Four (4) laser welding stations, identified as Laser Welder 1-4, exhausting inside the building.

(2) Maintenance welding, identified as Maint Weld and Welding Wire.

(i) Closed loop heating and cooling systems.

(j) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(k) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs.

(l) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.

(m) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP.
(2) Forced and induced draft cooling tower system not regulated under a NESHAP.

Seven (7) cooling towers, each with a maximum capacity of 4,200 gallons of water per minute.

(n) Three (3) vacuum heat treat units, identified as Heat Treat 1-3, approved for construction in 2008, each with a maximum acetylene gas flow rate of 4.4 lbs/hr, exhausting inside the building.

(o) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(p) Heat exchanger cleaning and repair.

(q) Process vessel degreasing and cleaning to prepare for internal repairs.

(r) Paved and unpaved roads and parking lots with public access.

(s) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(t) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(u) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(v) Emergency generators as follows:

(1) One (1) diesel fired emergency generator~~s~~, identified as EG 1, approved for construction in 2008, with a rating not to exceed 1609 horsepower.

(w) Other emergency equipment as follows:

(1) One (1) diesel fired stationary fire pump~~s~~, identified as EFP 1, approved for construction in 2008, with a rating not to exceed 250 horsepower.

(x) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(y) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

(1) Eighteen (18) high pressure deburring machines, identified as Deburr 1-18, approved for construction in 2008, each with a maximum oil usage of 90 gallons per year, exhausting inside the building.

(2) A maximum of one hundred seventy-two (172) machines, identified as Wet Machine 1-94 and Dry Machine 1-78, approved for construction in 2008, each equipped with a dedicated self-contained filter element for particulate control, exhausting inside the building.

(3) Thirty-one (31) dry hobbing machines, identified as Dry Hob 1-31, approved for construction in 2008, exhausting inside the building or to ambient atmosphere.

(z) General List of Trivial/Insignificant Activities

(1) Water related activities including:

(A) Production of hot water for on-site personal use not related to any industrial or production process.
(B) Cooling ponds.
(C) Pressure washing of equipment.
(D) Water jet cutting operations.

(2) Combustion Activities including the following:

(A) Portable electrical generators that can be moved by hand from one location to another.
(B) Fuel use related to food preparation for on-site consumption.

(C) Combustion emissions from propulsion of mobile sources.
(D) Tobacco smoking rooms and areas.
(E) Indoor and outdoor kerosene heaters.

(3) Ventilation and venting related equipment including the following:

(A) Stacks and vents from plumbing traps used to prevent the discharge of sewer gases, handling domestic sewage only, excluding those at wastewater treatment plants or those handling any industrial waste.

(B) Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.

(C) Air vents from air compressors.

(4) Activities related to routine fabrication, maintenance and repair of buildings, structures, equipment or vehicles at the source where air emissions from those activities would not be associated with any commercial production process including the following:

(A) Activities associated to routine fabrication, maintenance of paved and unpaved rods, including paving or sealing, or both, of parking lots and roadways.

(B) Painting including interior and exterior painting of buildings, and solvents use, excluding degreasing utilizing halogenated solvents.

(C) Brazing, soldering, or welding operation and associated equipment.

(D) Batteries and battery charging stations, except at battery manufacturing plants.

(E) Lubrications, including hand-held spray can lubrication, dipping metal parts into lubricating oil, and manual or automated addition of cutting oil in machining operations.

(F) Non-asbestos insulation installation or removal.

(G) Tarring, retarring and repair of building roofs.

(5) Activities performed using hand-held equipment including the following:

- Buffing
- Carving
- Cutting, excluding cutting torches
- Drilling
- Routing
- Surface grinding
- Grinding
- Sanding
- Turning wood, metal or plastic
- Polishing
- Sawing
- Surface grinding
- Machining wood, metal or plastic

(6) Housekeeping and janitorial activities and supplies including the following:

(A) Vacuum cleaning systems used exclusively for housekeeping or custodial activities or both.
(B) Restrooms and associated cleanup operations and supplies.
(C) Alkaline or phosphate cleaners and associated equipment.
(D) Mobile floor sweepers and floor scrubbers.
(E) Pest control fumigation.

(7) Office related including the following:

(A) Office supplies and equipment.
(B) Photocopying equipment and associated supplies.
(C) Paper shredding.
(D) Blueprint machines, photographic equipment, and associated supplies.

(8) Sampling and testing equipment and activities including the following:

(A) Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.

(B) Sampling activities including: Sampling of waste.

(9) Storage equipment and activities including:

(A) Pressurized storage tanks and associated piping for inorganic compounds and natural gas.

(B) Storage tanks, vessels, and containers holding or storing liquid substances that do not contain any VOC or HAP.

(C) Storage of drums containing maintenance raw materials.

(D) Portable container used for the collection, storage, or disposal of materials provided the container capacity is equal to or less than 0.46 cubic meters and the container is closed except when the material is added or removed.

(10) Emergency and standby equipment including:

(A) Safety and emergency equipment, except engine driven fire pumps, including fire suppression systems and emergency road flares.

(B) Process safety relief devices installed solely for the purpose of minimizing injury to persons or damage to equipment which could result from abnormal process operating conditions, including the following:

(i) Explosion relief vents, diaphragms or panels.
(ii) Rupture discs.
(iii) Safety relief valves.

(C) Activities and equipment associated with on-site medical care not otherwise specifically regulated.

(D) Vacuum producing devices for the purpose of removing potential accidental releases.

(11) Activities associated with production including the following:

(A) Electrical resistance welding.
(B) Drop hammers or hydraulic presses for forging or metalworking.
(C) Air compressors and pneumatically operated equipment, including hand tools.
(D) Compressor or pump lubrication and seal systems.

(E) Handling of solid steel, including coils and slabs, excluding scrap burning, scarfing, and charging into steel making furnaces and vessels.

(12) Miscellaneous equipment, but not emissions associated with the process for which the equipment is used, and activities including the following:

(A) Equipment used for surface coating, painting, dipping or spraying operations, except those that will emit VOCs and HAPs.
(B) Condensate drains for natural gas and landfill gas.
(C) Manual loading and unloading operations.
(D) Construction and demolition operations.

(13) Lawn care and landscape maintenance activities and equipment, including the storage, spraying or application of insecticides, pesticides and herbicides.

(14) Use of consumer products and equipment where the product or equipment is used at a source in the same manner as normal consumer use and is not associated with any production process.

(15) Activities generating limited amounts of fugitive dust including: Road salting and sanding.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)][326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.

(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

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

(a) This permit, 159-24130-00017, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13 15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

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

B.5 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.6 Enforceability [326 IAC 2-7-7]

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

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

B.8 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.9 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). 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.10 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) The "responsible official" is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

(a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, 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 Branch, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) 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 or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) 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.13 Emergency Provisions [326 IAC 2-7-16]

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

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

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

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

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

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

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

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

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

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

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

(A) A description of the emergency;

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

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

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

(h) The Permittee shall include all emergencies lasting one (1) hour or more in the Quarterly Deviation and Compliance Monitoring Report unless the emergency report made pursuant to Condition B.13(b)(5) included a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.14 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

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

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

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

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

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

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

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

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

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

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

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

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

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to 159-24130-00017 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

(b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

B.16 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

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

B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

(1) That this permit contains a material mistake.

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

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

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

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30)

days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.19 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

B.20 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12][40 CFR 72] [40 CFR 72]

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

(b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

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

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

B.22 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

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

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

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

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

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

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

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

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

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

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

(3) Any change in emissions; and

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

(f) This condition does not apply to emission trades of SO2 or NOX under 326 IAC 21 or 326 IAC 10-4.

B.23 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.24 Inspection and Entry [326 IAC 2-7-6][IC 13-14 2-2][IC 13-30-3-1][IC 13-17-3-2]

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

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

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

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

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

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

B.25 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

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

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

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

B.27 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

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

SECTION C **SOURCE OPERATION CONDITIONS**

Entire Source

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

C.1 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 Opacity [326 IAC 5-1]

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:

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

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

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

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). The provisions of 326 IAC 6-5 are not federally enforceable.

C.6 Stack Height [326 IAC 1-7]

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

C.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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC61-52, IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

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

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

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

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

C.13 Emergency Reduction Plans [326 IAC-1-5-2][326 IAC 1-5-3]

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

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

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

within 180 days from the date on which this source commences operation.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall 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 emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned 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 within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(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 maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

(a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2008 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC61-50, IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The emission statement 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.18 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. 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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.

(f) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) Five (5) shotpeening machines, identified as Shotpeen 1-5, approved for construction in 2008, each using a maximum of 52,800 pounds per hour of blast media, each equipped with a dedicated dry cartridge filter for particulate control, and exhausting inside the building or to ambient atmosphere.

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

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

D.1.1 Particulate Emissions [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the shotpeening machines (Shotpeen 1-5) shall not exceed the pound per hour emission rate established as E in the following formula:

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:

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

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(a) Space heaters, process heaters, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

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

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

D.2.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from indirect heating facilities shall be limited to the pound per MMBtu established as Pt. The limit shall be established using the following equation:

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)

Pursuant to 326 IAC 6-2-4, for Q less than ten (10) million Btu/hr, Pt shall not not excced 0.6. For Q greater than or equal to ten thousand (10,000) million Btu/hr, Pt shall not exceed 0.1.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(y) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

(1) Eighteen (18) deburring machines, identified as Deburr 1-18, approved for construction in 2008, each with a maximum oil usage of 90 gallons per year, exhausting inside the building.

(2) A maximum of one hundred seventy two (172) machines, identified as Wet Machine 1-94 and Dry Machine 1-78, approved for construction in 2008, each equipped with a dedicated self-contained filter element for particulate control, exhausting inside the building.

(3) Thirty one (31) dry hobbing machines, identified as Dry Hob 1-31, approved for construction in 2008, exhausting inside the building or to ambient atmosphere.

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

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

D.3.1 Particulate Emissions [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the dry hobbing machines (Dry Hob 1-31) shall not exceed the pound per hour emission rate established as E in the following formula:

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:

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

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(c) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons, including:

(1) One (1) gasoline fuel storage tank, with a capacity less than 575 gallons.

(d) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month, including:

(1) One (1) diesel fuel storage tank, with a capacity of 500 gallons.

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

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

D.4.1 State Only NSPS for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 Record Keeping Requirements [326 IAC 12] [40 CFR 60.116b Subpart Kb]

Pursuant to 40 CFR 60.116b (Monitoring of Operations), the Permittee shall keep readily accessible records showing the dimension of the one (1) gasoline storage tank and the one (1) diesel fuel storage tank, and an analysis showing the capacity of each storage vessel.

The records shall be kept for the life of the gasoline storage tank and the diesel fuel storage tank.

SECTION E.1 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(v) Emergency generators as follows:

(1) One (1) diesel fired emergency generator~~s~~, identified as EG 1, approved for construction in 2008, with a rating not to exceed 1609 horsepower.

(w) Other emergency equipment as follows:

(1) One (1) diesel fired stationary fire pump~~s~~, identified as EFP 1, approved for construction in 2008, with a rating not to exceed 250 horsepower.

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

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

(a) The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this SECTION E.4, except when otherwise specified in 40 CFR 60, Subpart IIII.

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

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

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Pursuant to 40 CFR 60, Subpart IIII, the Permittee shall comply with the provisions of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines as specified as follows:

What This Subpart Covers

§ 60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1)

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines, or

(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.

(b) The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

(d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

Emission Standards for Owners and Operators

§ 60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

(c) Owners and operators of non-emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in paragraphs (c)(1) and (2) of this section.

(1) Reduce nitrogen oxides (NO_X) emissions by 90 percent or more, or limit the emissions of NO_X in the stationary CI internal combustion engine exhaust to 1.6 grams per KW-hour (g/KW-hr) (1.2 grams per HP-hour (g/HP-hr)).

(2) Reduce particulate matter (PM) emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

§ 60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.

(d) Owners and operators of emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in paragraphs (d)(1) and (2) of this section.

(1) Reduce NO_X emissions by 90 percent or more, or limit the emissions of NO_X in the stationary CI internal combustion engine exhaust to 1.6 grams per KW-hour (1.2 grams per HP-hour).

(2) Reduce PM emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

Fuel Requirements for Owners and Operators

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

(c) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

(d) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the Federal Aid Highway System may petition the Administrator for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of paragraphs (a) and (b) of this section. Owners and operators must demonstrate in their petition to the Administrator that there is no other place to use the lubricating oil. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

(e) Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.

Other Requirements for Owners and Operators

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.

(c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.

(d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.

(e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.

(f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.

(g) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (f) of this section after the dates specified in paragraphs (a) through (f) of this section.

(h) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine, you must install a non-resettable hour meter prior to startup of the engine.

(b) If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

Compliance Requirements

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.

(d) If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.

(1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.

(2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

(i) Identification of the specific parameters you propose to monitor continuously;

(ii) A discussion of the relationship between these parameters and NO_X and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NO_X and PM emissions;

(iii) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(iv) A discussion identifying the methods and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.

(e) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

Testing Requirements for Owners and Operators

§ 60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (d) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \qquad \text{(Eq. 1)}$$

Where:
STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:
STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

§ 60.4213 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must conduct performance tests according to paragraphs (a) through (d) of this section.

(a) Each performance test must be conducted according to the requirements in §60.8 and under the specific conditions that this subpart specifies in table 7. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c).

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must last at least 1 hour.

(d) To determine compliance with the percent reduction requirement, you must follow the requirements as specified in paragraphs (d)(1) through (3) of this section.

(1) You must use Equation 2 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \qquad \text{(Eq. 2)}$$

Where:
Ci = concentration of NOX or PM at the control device inlet,
Co = concentration of NOX or PM at the control device outlet, and
R = percent reduction of NO_X or PM emissions.

(2) You must normalize the NO_X or PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen (O_2) using Equation 3 of this section, or an equivalent percent carbon dioxide (CO_2) using the procedures described in paragraph (d)(3) of this section.

$$C_{adj} = C_d \frac{5.9}{20.9 - \% O_2} \qquad \text{(Eq. 3)}$$

Where:
Cadj = Calculated NOX or PM concentration adjusted to 15 percent O2.
Cd = Measured concentration of NOX or PM, uncorrected.
5.9 = 20.9 percent O2−15 percent O2, the defined O2 correction value, percent.
%O2 = Measured O2 concentration, dry basis, percent.

(3) If pollutant concentrations are to be corrected to 15 percent O_2 and CO_2 concentration is measured in lieu of O_2 concentration measurement, a CO_2 correction factor is needed. Calculate the CO_2 correction factor as described in paragraphs (d)(3)(i) through (iii) of this section.

(i) Calculate the fuel-specific F_o value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \qquad \text{(Eq. 4)}$$

Where:
Fo = Fuel factor based on the ratio of O2 volume to the ultimate CO2 volume produced by the fuel at zero percent excess air.
0.209 = Fraction of air that is O2, percent/100.
Fd = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm 3 /J (dscf/10 6 Btu).
Fc = Ratio of the volume of CO2 produced to the gross calorific value of the fuel from Method 19, dsm 3 /J (dscf/10 6 Btu).

(ii) Calculate the CO_2 correction factor for correcting measurement data to 15 percent O_2, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \qquad \text{(Eq. 5)}$$

Where:
XCO2 = CO2 correction factor, percent.
5.9 = 20.9 percent O2−15 percent O2, the defined O2 correction value, percent.

(iii) Calculate the NO_X and PM gas concentrations adjusted to 15 percent O_2 using CO_2 as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \qquad \text{(Eq. 6)}$$

Where:
Cadj = Calculated NOX or PM concentration adjusted to 15 percent O2.
Cd = Measured concentration of NO_X or PM, uncorrected.
%CO2 = Measured CO2 concentration, dry basis, percent.

(e) To determine compliance with the NO_X mass per unit output emission limitation, convert the concentration of NO_X in the engine exhaust using Equation 7 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{\text{KW-hour}} \qquad \text{(Eq. 7)}$$

Where:
ER = Emission rate in grams per KW-hour.
C_d = Measured NO_X concentration in ppm.
1.912×10^{-3} = Conversion constant for ppm NO_X to grams per standard cubic meter at 25 degrees Celsius.
Q = Stack gas volumetric flow rate, in standard cubic meter per hour.
T = Time of test run, in hours.
KW-hour = Brake work of the engine, in KW-hour.

(f) To determine compliance with the PM mass per unit output emission limitation, convert the concentration of PM in the engine exhaust using Equation 8 of this section:

$$ER = \frac{C_{adj} \times Q \times T}{\text{KW-hour}} \qquad \text{(Eq. 8)}$$

Where:
ER = Emission rate in grams per KW-hour.
Cadj = Calculated PM concentration in grams per standard cubic meter.
Q = Stack gas volumetric flow rate, in standard cubic meter per hour.
T = Time of test run, in hours.
KW-hour = Energy output of the engine, in KW.

Notification, Reports, and Records for Owners and Operators

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.

(1) Submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.

(i) Name and address of the owner or operator;

(ii) The address of the affected source;

(iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(iv) Emission control equipment; and

(v) Fuel used.

(2) Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.

(i) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(ii) Maintenance conducted on the engine.

(iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.

(iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(c) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

Special Requirements

§ 60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?

(a) Owners and operators of stationary CI ICE that do not use diesel fuel, or who have been given authority by the Administrator under §60.4207(d) of this subpart to use fuels that do not meet the fuel requirements of paragraphs (a) and (b) of §60.4207, may petition the Administrator for approval of alternative emission standards, if they can demonstrate that they use a fuel that is not the fuel on which the manufacturer of the engine certified the engine and that the engine cannot meet the applicable standards required in §60.4202 or §60.4203 using such fuels.

(b) [Reserved]

General Provisions

§ 60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Definitions

§ 60.4219 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Diesel particulate filter means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of "manufacturer" in this section.

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Manufacturer has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for sale or resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means either:

(1) The calendar year in which the engine was originally produced, or

(2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Reciprocating internal combustion engine means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle or a

vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

Useful life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

Tables to Subpart IIII of Part 60

Table 1 to Subpart IIII of Part 60 - Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007-2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§ 60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007-2010 model year engines >2,237 KW (3,000 HP) and with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NOX	HC	NOX	CO	PM
KW<8 (HP<11).....	10.5 (7.8)	.....	.....	8.0 (6.0)	1.0 (0.75)
8[le]KW<19 (11[le]HP<25)	9.5 (7.1)	.....	.....	6.6 (4.9)	0.80 (0.60)
19[le]KW<37 (25[le]HP<50)	9.5 (7.1)	.....	.....	5.5 (4.1)	0.80 (0.60)
37[le]KW<56 (50[le]HP<75)	.....	.....	9.2 (6.9)	.....	.....
56[le]KW<75 (75[le]HP<100)	.....	.....	9.2 (6.9)	.....	.....
75[le]KW<130 (100[le]HP<175)	.....	.....	9.2 (6.9)	.....	.....
130[le]KW<225 (175[le]HP<300)	.....	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225[le]KW<450 (300[le]HP<600)	.....	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450[le]KW[le]560 (600[le]HP[le]750)..	.....	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750).....	.....	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Table 2 to Subpart IIII of Part 60 - Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE <37 KW (50 HP) With a Displacement of <10 Liters per Cylinder

[As stated in § 60.4202(a)(1), you must comply with the following emission standards]

Engine power	Emission standards for 2008 model year and later emergency stationary CI ICE <37 KW (50 HP) with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)			
	Model year(s)	NOX + NMHC	CO	PM
KW<8 (HP<11).....	2008+	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8[le]KW<19 (11[le]HP<25)	2008+	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19[le]KW<37 (25[le]HP<50)	2008+	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

Table 3 to Subpart IIII of Part 60 - Certification Requirements for Stationary Fire Pump Engines

[As stated in § 60.4202(d), you must certify new stationary fire pump engines beginning with the following model years:]

Engine power	Starting model year engine manufacturers must certify new stationary fire pump engines according to § 60.4202(d)
KW<75 (HP<100).....	2011
75[le]KW<130 (100[le]HP<175)	2010
130[le]KW[le]560 (175[le]HP[le]750).....	2009
KW>560 (HP>750).....	2008

Table 4 to Subpart IIII of Part 60.- Emission Standards for Stationary Fire Pump Engines

[As stated in §§ 60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NOX	CO	PM
KW<8 (HP<11).....	2010 and earlier ..... 2011+	10.5 (7.8) 7.5 (5.6)	8.0 (6.0)	1.0 (0.75) 0.40 (0.30)
8[le]KW<19 (11[le]HP<25)	2010 and earlier ..... 2011+	9.5 (7.1) 7.5 (5.6)	6.6 (4.9)	0.80 (0.60) 0.40 (0.30)
19[le]KW<37 (25[le]HP<50)	2010 and earlier ..... 2011+	9.5 (7.1) 7.5 (5.6)	5.5 (4.1)	0.80 (0.60) 0.30 (0.22)
37[le]KW<56 (50[le]HP<75)	2010 and earlier ..... 2011+ \1\.	10.5 (7.8) 4.7 (3.5)	5.0 (3.7)	0.80 (0.60) 0.40 (0.30)
56[le]KW<75 (75[le]HP<100)	2010 and earlier ..... 2011+ \1\	10.5 (7.8) 4.7 (3.5)	5.0 (3.7)	0.80 (0.60) 0.40 (0.30)
75[le]KW<130 (100[le]HP<175) .	2009 and earlier ..... 2010+ \2\	10.5 (7.8) 4.0 (3.0)	5.0 (3.7)	0.80 (0.60) 0.30 (0.22)
130[le]KW<225 (175[le]HP<300)	2008 and earlier ..... 2009+ \3\	10.5 (7.8) 4.0 (3.0)	3.5 (2.6)	0.54 (0.40) 0.20 (0.15)
225[le]KW<450 (300[le]HP<600).....	2008 and earlier ..... 2009+ \3\	10.5 (7.8) 4.0 (3.0)	3.5 (2.6)	0.54 (0.40) 0.20 (0.15

Table 4 to Subpart IIII of Part 60.- Emission Standards for Stationary Fire Pump Engines

[As stated in §§ 60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NOX	CO	PM
450[le]KW[le]560 (600[le]HP[le]750).	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)		0.20 (0.15)

\1\ For model years 2011-2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.
\2\ For model years 2010-2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.
\3\ In model years 2009-2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

Table 5 to Subpart IIII of Part 60 - Labeling and Recordkeeping Requirements for New Stationary Emergency Engines

[You must comply with the labeling requirements in § 60.4210(f) and the recordkeeping requirements in § 60.4214(b) for new emergency stationary CI ICE beginning in the following model years:]

Engine power	Starting model year
19[le]KW<56 (25[le]HP<75)	2013
56[le]KW<130 (75[le]HP<175)	2012
KW>=130 (HP>=175)	2011

Table 8 to Subpart IIII of Part 60 - Applicability of General Provisions to Subpart IIII

[As stated in § 60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§ 60.1	General applicability of the General Provisions.	Yes.	
§ 60.2	Definitions	Yes	Additional terms defined in § 60.4219.
§ 60.3	Units and abbreviations	Yes.	
§ 60.4	Address.	Yes.	
§ 60.5	Determination of construction or modification.	Yes.	
§ 60.6	Review of plans	Yes.	
§ 60.7	Notification and Recordkeeping.	Yes	Except that § 60.7 only applies as specified in § 60.4214(a).

Table 8 to Subpart IIII of Part 60 - Applicability of General Provisions to Subpart IIII

[As stated in § 60.4218, you must comply with the following applicable General Provisions:]

§ 60.8	Performance tests	Yes	Except that § 60.8 only applies to stationary CI ICE with a displacement of (>=30 liters per cylinder and engines that are not certified.
§ 60.9	Availability of information.	Yes.	
§ 60.10	State Authority	Yes.	
§ 60.11	Compliance with standards and maintenance requirements.	No	Requirements are specified in subpart IIII.
§ 60.12	Circumvention	Yes.	
§ 60.13	Monitoring requirements	Yes	Except that § 60.13 only applies to stationary CI ICE with a displacement of (>=30 liters per cylinder.
§ 60.14	Modification	Yes.	
§ 60.15	Reconstruction	Yes.	
§ 60.16	Priority list	Yes.	
§ 60.17	Incorporations by reference.	Yes.	
§ 60.18	General control device requirements.	No.	
§ 60.19	General notification and reporting requirements.	Yes.	

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Chrysler LLC
Source Address: Northeast Corner of State Road 28 and US 31, Tipton, Indiana 46072
Mailing Address: 800 Chrysler Drive, Auburn Hills, MI 48326
Part 70 Permit No.: 159-24130-00017

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue, MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Chrysler LLC
Source Address: Northeast Corner of State Road 28 and US 31, Tipton, Indiana 46072
Mailing Address: 800 Chrysler Drive, Auburn Hills, MI 48326
Part 70 Permit No.: 159-24130-00017

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

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

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

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

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

A certification is not required for this report.

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

Source Name: Chrysler LLC
Source Address: Northeast Corner of State Road 28 and US 31, Tipton, Indiana 46072
Mailing Address: 800 Chrysler Drive, Auburn Hills, MI 48326
Part 70 Permit No.: 159-24130-00017

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

Mail to: Permit Administration & Development Section
Office Of Air Quality
100 North Senate Avenue, MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

Chrysler LLC
800 Chrysler Drive
Auburn Hills, MI 48326

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____,I have personal
(Company Name)

knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____ .
(Company Name)

4. I hereby certify that Chrysler LLC, Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**,** completed construction of the transmission production plant on _____in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on (date) and as permitted pursuant to Part 70 Permit T159-24310-00017, Plant ID No. 159-00017 issued on _____ .

5. Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit. (Delete this statement if it does not apply.)

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

_____
Signature

_____
Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana on this _____ day of _____, 20 _____ .

My Commission expires:

_____
Signature

_____
Name (typed or printed)

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name:	Chrysler LLC (formerly known as Daimler Chrysler Corporation)
Source Location:	Northwest Corner of State Road 28 and US 31, Tipton, IN 46072
County:	Tipton
SIC Code:	3714
Operation Permit No.:	T 159-24130-00017
Operation Permit Issuance Date:	August 14, 2007
Significant Source Modification No.:	159-25631-00017
Significant Permit Modification No.:	159-25841-00017
Permit Reviewer:	Kristen Layton

Existing Approvals

The source was issued Part 70 Operating Permit No. T159-24130-00017 on August 14, 2007.

County Attainment Status

The source is located in Tipton 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) Ozone Standards

(1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.

(3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

(4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to

ozone. Tipton County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Tipton 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 PM2.5 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 a surrogate for PM2.5 emissions.

(c) Other Criteria Pollutants
Tipton County has been classified as attainment or unclassifiable in Indiana for all other criteria 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 twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Source Status

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

Pollutant	**Emissions** (ton/yr)
PM	214.73
PM_{10}	214.73
SO_2	0.84
VOC	1.17
CO	3.03
NO_X	113.21

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

(b) These emissions are based upon Part 70 Operating Permit No. T159-24130-00017.

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

HAPs	**Potential To Emit** (ton/yr)
Any Single HAP	less than 1.0
Total HAPs	less than 25.0

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

No previous emission data has been received from the source.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Chrysler LLC (formerly known as Daimler Chrysler Corporation) on December 11, 2007, to add new emission units and make changes to and remove permitted emission units. The following is a list of the proposed modifications:

(1) Upon further development of the Chrysler LLC Tipton, Indiana facility, the Permittee has decided to change the specifications of some units, decrease the number of some units and increase the number of some units to be installed as shown below. Deleted language appears as strikethroughs and new language appears in **bold**:

(a) ~~Fifteen (15) shotblast~~ **Five (5) shotpeening** machines, identified as ~~Shotblast 1-15~~ **Shotpeen 1-5**, approved for construction in ~~2007~~ **2008**, each using a maximum of ~~7700~~ **52,800** pounds per hour of ~~cut steel wire shot~~ **blast media**, each equipped with a dedicated dry cartridge filter for particulate control, and exhausting inside the building or to ambient atmosphere.

Insignificant Activities

(h) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment, including the following:

(1) ~~Ten (10)~~ **Four (4)** laser welding stations, identified as Laser Welder ~~1-10~~ **1-4**, exhausting inside the building.

(2) Maintenance welding, identified as Maint Weld and Welding Wire.

(m) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP.
(2) Forced and induced draft cooling tower system not regulated under a NESHAP.

~~Eight (8)~~ **Seven (7)** cooling towers, each with a maximum capacity of 4,200 gallons of water per minute.

~~(n) Quenching operations used with heat treating processes, including:~~

~~(1) Heat treat-quench operations, identified as Heat Treat, with a maximum quench oil usage rate of 14,400 gallons per year.~~

(v) Emergency generators as follows:

(1) ~~Two (2)~~ **One (1)** diesel fired emergency generator~~s~~, identified as EG 1~~-2~~, approved for construction in ~~2007~~ **2008**, with a ~~combined~~ rating not to exceed ~~1500~~ **1609** horsepower.

(w) Other emergency equipment as follows:

(1) ~~Four (4)~~ **One (1)** diesel fired stationary fire pump~~s~~, identified as EFP 1~~-4~~, approved for construction in ~~2007~~ **2008**, with a ~~combined~~ rating not to exceed ~~368~~ **250** horsepower.

(y) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day,

CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

(1) ~~Ten (10) high pressure~~ **Eighteen (18)** deburring machines, identified as Deburr 1-~~10~~**18**, approved for construction in ~~2007~~ **2008**, each with a maximum oil usage of 90 gallons per year, exhausting inside the building.

(2) A maximum of ~~eight hundred (800)~~ **one hundred seventy two (172)** machines, identified as Wet Machine 1-~~400~~**94** and Dry Machine 1-~~400~~**78**, approved for construction in ~~2007~~ **2008**, each equipped with a dedicated self-contained filter element for particulate control, exhausting inside the building.

(3) ~~Eighteen (18)~~ **Thirty one (31)** dry hobbing machines, identified as Dry Hob 1-~~18~~**31**, approved for construction in ~~2007~~ **2008**, exhausting inside the building or to ambient atmosphere.

(2) The following is a proposed emission unit:

(n) Three (3) vacuum heat treat units, identified as Heat Treat 1-3, approved for construction in 2008, each with a maximum acetylene gas flow rate of 4.4 lbs/hr, exhausting inside the building.

(3) The Permittee has decreased the total natural gas combustion capacity of the facility from 2,000 MMCF/yr to 500.4 MMCF/yr. This decrease occurs because the original limits were based upon worst case estimates. Upon further development, Chrysler has changed this estimate to better reflect what is actually being installed.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

PTE Before Controls of New Units	
Pollutant	**Potential To Emit** (ton/yr)
PM	-
PM_{10}	-
SO_2	-
VOC	28.91
CO	-
NO_X	-

HAP PTE Before Controls of New Units	
HAPs	**Potential To Emit** (ton/yr)
Benzene	0.64
Naphthalene	0.64
Total HAPs	1.28

PTE Before Controls of Modified Units	
Pollutant	**Potential To Emit** (ton/yr)
PM	135.44
PM_{10}	135.44
SO_2	0.24
VOC	1.20
CO	3.05
NO_X	13.54

*This table reflects changes to units approved for construction in Part 70 Operating Permit No. 159-24130-00017. These units have not been constructed yet, but are considered modified due to the construction approval contained in Part 70 Operating Permit No. 159-24130-00017.

HAP PTE Before Controls of Modified Units	
HAPs	**Potential To Emit** (ton/yr)
Manganese	5.80E-08
Nickel	3.58E-05
Lead	7.16E-06
Formaldehyde	0.04
Benzene	0.36
Toluene	0.13
Xylene	0.09
1,3-Butadiene	3.49E-02
Acrolein	1.16E-02
Naphthalene	5.81E-02
POM	3.79E-02
Total HAPs	0.78

This source modification is subject to 326 IAC 2-7-10.5(f)(4), modifications with the potential to emit of greater than twenty-five (25) tons per year of PM/PM10 and Volatile Organic Compounds (VOC). Additionally, the modification will be incorporated into the Part 70 Operating Permit

through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because it does require a case-by case determination of an emission limit and a significant change to existing monitoring, reporting, and record keeping requirements.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Potential to Emit for the Entire Source (ton/yr)						
Process / Emission Unit	**PM**	**PM_{10}**	**SO_2**	**VOC**	**CO**	**NO_X**
Shotblast 1-5	7.23	7.23	-	-	-	-
Deburr	0.50	0.50	-	-	-	-
Combustion (Natural Gas)	1.90	1.90	0.15	1.38	21.02	25.02
Heat Treat	-	-	-	28.91	-	-
Wet Machining	37.38	37.38	-	0.04	-	-
Dry Machining	31.02	31.02	-	-	-	-
Dry Hobbing	139.85	139.85	-	-	-	-
Laser Welding	5.23	5.23	-	-	-	-
Maint Welding	1.10	1.10	-	-	-	-
EFP / EG	0.94	0.94	0.24	1.17	3.05	13.54
Cooling Towers	0.03	0.03	-	-	-	-
Total for Source	225.18	225.19	0.39	31.49	24.06	38.56
Major Source Threshold	250	250	250	250	250	250

*This table reflects source wide potential emissions after construction.

This modification to an existing minor stationary source is not major because the source wide emissions are less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

The federal rule applicabilities have not changed as a result of this modification.

NSPS:

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

NESHAP:

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

CAM:

(c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;

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

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

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each new or modified emission unit involved:

Emission Unit	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PM10 PTE (tons/year)	Controlled PM10 PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Shotblast 1-15 (each)	Y	Y	1.45	0.01	100	N	N
Deburr (each)	N	N	0.28	N/A	100	N	N
NG Combustion (combined)	N	Y	1.9	N/A	100	N	N
Heat Treat	N	N	0	0	100	N	N
Wet Machining (each)	Y	Y	0.7	0.139	100	N	N
Dry Machining (each)	Y	Y	0.34	0.068	100	N	N
Dry Hobbing (each)	N	Y	4.51	N/A	100	N	N
Laser Welding (each)	N	N	1.31	N/A	100	N	N
EFP (combined)	N	N	0.055	N/A	100	N	N
EG (combined)	N	N	0.885	N/A	100	N	N
Cooling Towers (each)	N	N	0.00438	N/A	100	N	N

*This table shows the updated CAM applicability for the entire source. No control devices are present for any other pollutant. Therefore, CAM is not applicable for any other pollutant.

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

State Rule Applicability Determination

The state rule applicabilities have not changed as a result of this modification.

326 IAC 2-2 (PSD)
This modification to an existing minor stationary source is not major because the source wide emissions are less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

326 IAC 2-6 (Emission Reporting)
Since this source is required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted triennially by July 1 beginning in 2005 and every 3 years after. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the shotpeening machines (Shotpeen 1-5) and the dry hobbing machines (Dry Hob 1-31) shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

The shotpeening machines (Shotpeen 1-5) and dry hobbing machines (Dry Hob 1-31) can meet this limit without the use of a control device.

Pursuant to 326 IAC 6-3-1(b)(11), the noncontact cooling towers are exempt from the requirements of 326 IAC 6-3-2.

Pursuant to 326 IAC 6-3-1(b)(14), the following units are exempt from the requirements of 326 IAC 6-3-2, since the potential emissions are less than five hundred fifty-one thousandths (0.551) pound per hour.

(a) Eighteen (18) deburring units, identified as Deburr 1-18.
(b) Heat treat-quench operations, identified as Heat Treat.
(c) Four (4) laser welders, identified as Laser Welder 1-4.
(d) Maintenance welding operations, identified as Maint Weld and Welding Wire.
(e) 94 wet and 78 dry machining operations.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)
The Heat Treat - Vacuum Carburizing Furnaces will be constructed after January 1, 1980 and shall each emit less than twenty-five (25) tons of VOC per year. Therefore, 326 IAC 8-1-6 does not apply.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 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 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

There are no new compliance determination or monitoring conditions associated with this modification.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T159-24130-00017. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

(1) The source name has been changed throughout the permit as follows:

~~Daimler Chrysler Corporation~~
Chrysler LLC

(2) Section A.2 - Emission Units and Pollutions Control Equipment Summary and Section A.3 - Insignificant Activities have been updated to reflect the addition and removal of units as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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

(a) ~~Fifteen (15) shotblast~~ **Five (5) shotpeening** machines, identified as ~~Shotblast 1-15~~ **Shotpeen 1-5**, approved for construction in ~~2007~~ **2008**, each using a maximum of ~~7700~~ **52,800** pounds per hour of ~~cut steel wire shot~~ **blast media**, each equipped with a dedicated dry cartridge filter for particulate control, and exhausting inside the building or to ambient atmosphere.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

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

(a) Space heaters, process heaters, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(b) Combustion source flame safety purging on startup.

(c) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons, including:

(1) One (1) gasoline fuel storage tank, with a capacity less than 575 gallons.

(d) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month, including:

(1) One (1) diesel fuel storage tank, with a capacity of 500 gallons.

(e) The following VOC and HAP storage containers:

(1) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(f) Refractory storage not requiring air pollution control equipment.

(g) Machining where an aqueous cutting coolant continuously floods the machining interface.

(h) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment, including the following:

(1) ~~Ten (10)~~ **Four (4)** laser welding stations, identified as Laser Welder ~~1-10~~ **1-4**, exhausting inside the building.

(2) Maintenance welding, identified as Maint Weld and Welding Wire.

(i) Closed loop heating and cooling systems.

(j) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(k) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs.

(l) Water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs.

(m) Noncontact cooling tower systems with either of the following:

(1) Natural draft cooling towers not regulated under a NESHAP.
(2) Forced and induced draft cooling tower system not regulated under a NESHAP.

~~Eight (8)~~ **Seven (7)** cooling towers, each with a maximum capacity of 4,200 gallons of water per minute.

~~(n) Quenching operations used with heat treating processes, including:~~

~~(1) Heat treat-quench operations, identified as Heat Treat, with a maximum quench oil usage rate of 14,400 gallons per year.~~

(n) Three (3) vacuum heat treat units, identified as Heat Treat 1-3, approved for construction in 2008, each with a maximum acetylene gas flow rate of 4.4 lbs/hr, exhausting inside the building.

(o) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(p) Heat exchanger cleaning and repair.

(q) Process vessel degreasing and cleaning to prepare for internal repairs.

(r) Paved and unpaved roads and parking lots with public access.

(s) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(t) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(u) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

(v) Emergency generators as follows:

(1) ~~Two (2)~~ **One (1)** diesel fired emergency generator~~s~~, identified as EG 1~~-2~~, approved for construction in ~~2007~~ **2008**, with a ~~combined~~ rating not to exceed ~~1500~~ **1609** horsepower.

(w) Other emergency equipment as follows:

(1) ~~Four (4)~~ **One (1)** diesel fired stationary fire pump~~s~~, identified as EFP 1~~-4~~, approved for construction in ~~2007~~ **2008**, with a ~~combined~~ rating not to exceed ~~368~~ **250** horsepower.

(x) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(y) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour

or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

(1) ~~Ten (10)~~ **Eighteen (18)** high pressure deburring machines, identified as Deburr 1-~~10~~ **18**, approved for construction in ~~2007~~ **2008**, each with a maximum oil usage of 90 gallons per year, exhausting inside the building.

(2) A maximum of ~~eight hundred (800)~~ **one hundred seventy-two (172)** machines, identified as Wet Machine 1-~~400~~ **94** and Dry Machine 1-~~400~~ **78**, approved for construction in ~~2007~~ **2008**, each equipped with a dedicated self-contained filter element for particulate control, exhausting inside the building.

(3) ~~Eighteen (18)~~ **Thirty-one (31)** dry hobbing machines, identified as Dry Hob 1-~~18~~ **31**, approved for construction in ~~2007~~ **2008**, exhausting inside the building or to ambient atmosphere.

(z) General List of Trivial/Insignificant Activities

(1) Water related activities including:

(A) Production of hot water for on-site personal use not related to any industrial or production process.
(B) Cooling ponds.
(C) Pressure washing of equipment.
(D) Water jet cutting operations.

(2) Combustion Activities including the following:

(A) Portable electrical generators that can be moved by hand from one location to another.
(B) Fuel use related to food preparation for on-site consumption.
(C) Combustion emissions from propulsion of mobile sources.
(D) Tobacco smoking rooms and areas.
(E) Indoor and outdoor kerosene heaters.

(3) Ventilation and venting related equipment including the following:

(A) Stacks and vents from plumbing traps used to prevent the discharge of sewer gases, handling domestic sewage only, excluding those at wastewater treatment plants or those handling any industrial waste.

(B) Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.

(C) Air vents from air compressors.

(4) Activities related to routine fabrication, maintenance and repair of buildings, structures, equipment or vehicles at the source where air emissions from those activities would not be associated with any commercial production process including the following:

(A) Activities associated to routine fabrication, maintenance of paved and unpaved rods, including paving or sealing, or both, of parking lots and roadways.

(B) Painting including interior and exterior painting of buildings, and solvents use, excluding degreasing utilizing halogenated solvents.

(C) Brazing, soldering, or welding operation and associated equipment.

(D) Batteries and battery charging stations, except at battery manufacturing plants.

(E) Lubrications, including hand-held spray can lubrication, dipping metal parts into lubricating oil, and manual or automated addition of cutting oil in machining operations.

(F) Non-asbestos insulation installation or removal.

(G) Tarring, retarring and repair of building roofs.

(5) Activities performed using hand-held equipment including the following:

- Buffing	- Carving	- Cutting, excluding cutting torches
- Drilling	- Routing	- Surface grinding
- Grinding	- Sanding	- Turning wood, metal or plastic
- Polishing	- Sawing	- Surface grinding
- Machining wood, metal or plastic		

(6) Housekeeping and janitorial activities and supplies including the following:

(A) Vacuum cleaning systems used exclusively for housekeeping or custodial activities or both.
(B) Restrooms and associated cleanup operations and supplies.
(C) Alkaline or phosphate cleaners and associated equipment.
(D) Mobile floor sweepers and floor scrubbers.
(E) Pest control fumigation.

(7) Office related including the following:

(A) Office supplies and equipment.
(B) Photocopying equipment and associated supplies.
(C) Paper shredding.
(D) Blueprint machines, photographic equipment, and associated supplies.

(8) Sampling and testing equipment and activities including the following:

(A) Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.

(B) Sampling activities including: Sampling of waste.

(9) Storage equipment and activities including:

(A) Pressurized storage tanks and associated piping for inorganic compounds and natural gas.

(B) Storage tanks, vessels, and containers holding or storing liquid substances that do not contain any VOC or HAP.

(C) Storage of drums containing maintenance raw materials.

(D) Portable container used for the collection, storage, or disposal of materials provided the container capacity is equal to or less than 0.46

cubic meters and the container is closed except when the material is added or removed.

(10) Emergency and standby equipment including:

(A) Safety and emergency equipment, except engine driven fire pumps, including fire suppression systems and emergency road flares.

(B) Process safety relief devices installed solely for the purpose of minimizing injury to persons or damage to equipment which could result from abnormal process operating conditions, including the following:

(i) Explosion relief vents, diaphragms or panels.
(ii) Rupture discs.
(iii) Safety relief valves.

(C) Activities and equipment associated with on-site medical care not otherwise specifically regulated.

(D) Vacuum producing devices for the purpose of removing potential accidental releases.

(11) Activities associated with production including the following:

(A) Electrical resistance welding.
(B) Drop hammers or hydraulic presses for forging or metalworking.
(C) Air compressors and pneumatically operated equipment, including hand tools.
(D) Compressor or pump lubrication and seal systems.
(E) Handling of solid steel, including coils and slabs, excluding scrap burning, scarfing, and charging into steel making furnaces and vessels.

(12) Miscellaneous equipment, but not emissions associated with the process for which the equipment is used, and activities including the following:

(A) Equipment used for surface coating, painting, dipping or spraying operations, except those that will emit VOCs and HAPs.
(B) Condensate drains for natural gas and landfill gas.
(C) Manual loading and unloading operations.
(D) Construction and demolition operations.

(13) Lawn care and landscape maintenance activities and equipment, including the storage, spraying or application of insecticides, pesticides and herbicides.

(14) Use of consumer products and equipment where the product or equipment is used at a source in the same manner as normal consumer use and is not associated with any production process.

(15) Activities generating limited amounts of fugitive dust including: Road salting and sanding.

(3) Sections D.1, D.2, D.3, and E.1 have been modified, the Table of Contents updated, and forms removed to reflect the addition and removal of units. The modifications the Permittee has made have changed the source wide potential to emit to below PSD major source thresholds. Therefore, the PSD limits and associated compliance determination requirements are no longer applicable to the Permittee and have been removed.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) ~~Fifteen (15) shotblast~~ **Five (5) shotpeening** machines, identified as ~~Shotblast 1-15~~ **Shotpeen 1-5**, approved for construction in ~~2007~~ **2008**, each using a maximum of ~~7700~~ **52,800** pounds per hour of ~~cut steel wire shot~~ **blast media**, each equipped with a dedicated dry cartridge filter for particulate control, and exhausting inside the building or to ambient atmosphere.

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

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

~~D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]~~

~~(a) The PM emissions from the fifteen (15) shotblast machines (Shotblast 1-15) shall be vented through dedicated cartridge filters and shall not exceed 0.02 pounds per hour, each.~~

~~(b) The PM10 emissions from the fifteen (15) shotblast machines (Shotblast 1-15) shall be vented through dedicated cartridge filters and shall not exceed 0.02 pounds per hour, each.~~

~~Compliance with these PM/PM10 emission limits, in conjunction with the PM/PM10 emissions from the other emission units at this source, limits the PM/PM10 emissions from the entire source to less than two hundred and fifty (250) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable.~~

D.1.~~2~~**1** Particulate Emissions [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the ~~shotblasting machines (Shotblast 1-15)~~ **shotpeening machines (Shotpeen 1-5)** shall not exceed the pound per hour emission rate established as E in the following formula:

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:

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

~~D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]~~

~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.~~

~~**Compliance Determination Requirement**~~

~~D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM10 testing for the dedicated cartridge filters, controlling Shotblast 1-15, utilizing methods as approved by the Commissioner. PM10 includes filterable and condensible PM10. This testing shall be repeated at least every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing. The testing shall be conducted according to the following schedule:~~

~~(a) Within sixty (60) days after achieving maximum capacity but no later than one hundred and eighty (180) days after initial startup of shotblast machines, the Permittee shall conduct the initial compliance test for any three (3) of the dedicated cartridge filters.~~

~~(b) Until such time that all dedicated cartridge filters have been tested once, subsequent testing shall be conducted for any three (3) of dedicated cartridge filters that were not yet tested.~~

~~(c) After such time that all dedicated cartridge filters have been tested, testing shall be conducted for the three (3) dedicated cartridge filters with the longest lapse in time since the prior test.~~

~~D.1.5 Particulate Controls [326 IAC 2-7-6(6)]~~

~~(a) In order to comply with Conditions D.1.1 and D.1.2, dedicated cartridge filters for particulate control shall be in operation and control emissions from the fifteen (15) shotblast machines (Shotblast 1-15) at all times that the respective shotblast machine is in operation.~~

~~(b) In the event that filtration failure is observed in a multi-compartment unit, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

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

~~D.1.6 Visible Emissions Notations~~

~~(a) Visible emission notations of the shotblast (Shotblast 1-15) cartridge filter stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~

~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~

~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~

~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~

~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

~~D.1.7 Cartridge Filter Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the shotblast (Shotblast 1-15) cartridge filters, at least once per day when the shotblast machines are in operation. When for any one reading, the pressure drop across a cartridge filter is outside the normal range of 1.0 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

~~The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at~~

~~least once every six (6) months.~~

~~D.1.8 Broken or Failed Cartridge Filter Detection~~

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

~~(b) For a single compartment filtration unit controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line or emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

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

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

~~D.1.9 Record Keeping Requirements~~

~~(a) To document compliance with Condition D.1.6 the Permittee shall maintain a daily record of visible emission notations of filter cartridge stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).~~

~~(b) To document compliance with Condition D.1.7, the Permittee shall maintain a daily record of the pressure drop across the cartridge filters controlling the shotblast machines. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g. the process did not operate that day).~~

~~(c) To document compliance with Condition D.1.4 the Permittee shall maintain records of compliance testing for each cartridge filter. The record shall state the date of the testing and the associated shotblast ID. Records shall be maintained for the life of each shotblast machine.~~

~~(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(a) Space heaters, process heaters, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

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

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

~~D.2.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]~~

~~(a) The total natural gas usage by the source shall not exceed two thousand million cubic feet (2,000 MMCF) per twelve (12) consecutive month period with compliance determined at the end of each month.~~

~~(b) PM emissions from the natural gas-fired combustion sources shall not exceed seven and six-tenths (7.6) pounds per MMCF.~~

~~(c) PM10 emissions from the natural gas-fired combustion sources shall not exceed seven and six-tenths (7.6) pounds per MMCF.~~

~~Compliance with these PM/PM10 emission limits, in conjunction with the PM/PM10 emissions from the other emission units at this source, limits the PM/PM10 emissions from the entire source to less than two hundred and fifty (250) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable.~~

D.2.~~2~~**1** Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from indirect heating facilities shall be limited to the pound per MMBtu established as Pt. The limit shall be established using the following equation:

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)

Pursuant to 326 IAC 6-2-4, for Q less than ten (10) million Btu/hr, Pt shall not not excced 0.6. For Q greater than or equal to ten thousand (10,000) million Btu/hr, Pt shall not exceed 0.1.

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

~~D.2.3 Record Keeping Requirements for Natural Gas~~

~~(a) In order to demonstrate compliance with Condition D.2.1, the Permittee shall record the quantity of natural gas usage.~~

~~(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

~~D.2.4 Reporting Requirements~~

~~A semi-annual summary of the information to document compliance with Condition D.2.1 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, within thirty (30) days after the end of the period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT~~
~~OFFICE OF AIR QUALITY~~
~~COMPLIANCE DATA SECTION~~

~~Part 70 Semi-Annual Report~~

~~Source Name:~~ ~~DaimlerChrysler Corporation~~
~~Source Address:~~ ~~Northeast Corner of State Road 28 and US 31, Tipton, Indiana 46072~~
~~Mailing Address:~~ ~~800 Chrysler Drive, Auburn Hills, MI 48326~~
~~Part 70 Permit No.:~~ ~~159-24130-00017~~
~~Facility:~~ ~~Source Wide~~
~~Parameter:~~ ~~Natural Gas Usage~~
~~Limit:~~ ~~Total natural gas usage by the source shall not exceed two thousand million cubic feet (2,000 MMCF) per twelve (12) consecutive month period.~~

~~Semi-Annual Period :~~ ~~YEAR:~~

~~Month~~	~~Column 1~~	~~Column 2~~	~~Column 1 + Column 2~~
	~~This Month~~	~~Previous 11 Months~~	~~12 Month Total~~
~~Month 1~~			
~~Month 2~~			
~~Month 3~~			
~~Month 4~~			
~~Month 5~~			
~~Month 6~~			

~~☐ No deviation occurred in this quarter.~~

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

~~Submitted by:~~ _____
~~Title / Position:~~ _____
~~Signature:~~ _____
~~Date:~~ _____
~~Phone:~~ _____

~~Attach a signed certification to complete this report.~~

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(y) Other emission units, not regulated by a NESHAP, with PM10, NOx, and SO_2 emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, VOC emissions less than three (3) pounds per hour or fifteen (15) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

(1) ~~Ten (10) high pressure~~ **Eighteen (18)** deburring machines, identified as Deburr 1-~~10~~**18**, approved for construction in ~~2007~~ **2008**, each with a maximum oil usage of 90 gallons per year, exhausting inside the building.

(2) A maximum of ~~eight hundred (800)~~ **one hundred seventy two (172)** machines, identified as Wet Machine 1-~~400~~**94** and Dry Machine 1-~~400~~**78**, approved for construction in ~~2007~~ **2008**, each equipped with a dedicated self-contained filter element for particulate control, exhausting inside the building.

(3) ~~Eighteen (18)~~ **Thirty one (31)** dry hobbing machines, identified as Dry Hob 1-~~18~~**31**, approved for construction in ~~2007~~ **2008**, exhausting inside the building or to ambient atmosphere.

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

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

~~D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]~~

~~(a) The PM emissions from each of the wet machines and each of the dry machines shall be vented though a dedicated self-contained filter element and the PM emissions from each unit shall not exceed 0.032 pounds per hour.~~

~~(b) The PM10 emissions from each of the wet machines and each of the dry machines shall be vented though a dedicated self-contained filter element and the PM10 emissions from each unit shall not exceed 0.032 pounds per hour.~~

~~(c) Each self-contained filter element shall control no more than one wet or dry machine.~~

~~(d) The PM emissions from each of the dry hobbing machines shall not exceed 1.03 pounds per hour.~~

~~(e) The PM10 emissions from each of the dry hobbing machines shall not exceed 1.03 pounds per hour.~~

~~Compliance with these PM/PM10 emission limits, in conjunction with the PM/PM10 emissions from the other emission units at this source, limits the PM/PM10 emissions from the entire source to less than two hundred and fifty (250) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable.~~

D.3.~~2~~**1** Particulate Emissions [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the dry hobbing machines (Dry Hob 1-~~18~~**31**) shall not exceed the pound per hour emission rate established as E in the following formula:

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:

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

~~D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]~~

~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.~~

~~**Compliance Determination Requirement**~~

~~D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~(a) In order to demonstrate compliance with Condition D.3.1 the Permittee shall perform PM and PM10 testing for the self-contained filter elements, within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup of the wet and dry machines, utilizing methods as approved by the Commissioner. PM10 includes filterable and condensible PM10. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing. The specific oil mist eliminators to be tested shall be determined according to the following:~~

~~(1) Upon finalization of the design criteria and prior to initial startup of the wet and dry machines, the Permittee shall submit to IDEM, OAQ, the design specifications of each machine and the corresponding dedicated self-contained filter element.~~

~~(2) IDEM, OAQ, will group each machine and corresponding dedicated self-contained filter element with machines and filter elements of identical design criteria, and will determine the number of filter elements to be tested from each grouping.~~

~~(3) IDEM, OAQ shall require testing for at least one (1) dedicated filter element within each grouping. The total number of dedicated filter elements to be tested within each grouping shall not exceed twenty percent (20%).~~

~~(b) In order to demonstrate compliance with Condition D.3.1 the Permittee shall perform PM and PM10 testing for any four (4) of the dry hobbing machines (Dry Hob 1-18), within sixty (60) days after achieving maximum capacity but no later than one hundred and eighty (180) days after initial startup of the dry hobbing machines, utilizing methods as approved by the Commissioner. PM10 includes filterable and condensible PM10. Testing shall be conducted in accordance with Section C - Performance Testing.~~

~~D.3.5 Particulate Controls [326 IAC 2-7-6(6)]~~

~~In order to comply with Condition D.3.1, the filter elements for particulate control shall be in operation and control emissions from the machining operations at all times that the respective wet or dry machine is in operation.~~

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

~~D.3.6 Visible Emissions Notations~~

~~(a) Visible emission notations the dry hobbing machines stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~

~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~

~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~

~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~

~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

~~D.3.7 Parametric Monitoring~~

~~The Permittee shall perform monthly inspections to verify the placement, integrity and particle loading of the filter elements controlling emissions from the wet machining and dry machining operations.~~

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

~~D.3.8~~**3** ~~Record Keeping Requirements~~

~~(a) To document compliance with Condition D.3.6 the Permittee shall maintain a daily record of visible emission notations of the dry hobbing stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (e.g. the process did not operate that day).~~

~~(b) To document compliance with Condition D.3.7 the Permittee shall maintain records of the monthly inspections of the filter elements controlling the wet machining and dry machining operations.~~

~~(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~

SECTION E.1 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Facility Description [326 IAC 2-7-5(15)]:

Insignificant Activities:

(v) Emergency generators as follows:

(1) ~~Two (2)~~ **One (1)** diesel fired emergency generator~~s~~, identified as EG 1~~-2~~, approved for construction in ~~2007~~ **2008**, with a ~~combined~~ rating not to exceed ~~1500~~ **1609** horsepower.

(w) Other emergency equipment as follows:

(1) ~~Four (4)~~ **One (1)** diesel fired stationary fire pump~~s~~, identified as EFP 1~~-4~~, approved for

construction in ~~2007~~ **2008**, with a ~~combined~~ rating not to exceed ~~368~~ **250** horsepower.

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

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

(a) The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this SECTION E.4, except when otherwise specified in 40 CFR 60, Subpart IIII.

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

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

E.1.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60, Subpart IIII]

Pursuant to 40 CFR 60, Subpart IIII, the Permittee shall comply with the provisions of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines as specified as follows:

...

(4) The Condition B.12 - Preventative Maintenance Plan has been modified to be more general since the specific Preventative Maintenance Plan requirements have been removed from the D Sections of this permit.

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

(a) ~~If required by specific condition(s) in Section D of this permit, t~~**T**he Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, 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 Branch, Office of Air Quality
100 North Senate Avenue
MC61-53, IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) 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 or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) 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.

(5) This modification has lowered the source wide potential to emit to below 250 tpy for PM10 and VOC. Therefore, the Permittee is now subject to 326 IAC 2-6-3(b)(2) instead of 326 IAC 2-6-3(a)(1). Condition C.17 - Emission Statement has been modified as follows to reflect this.

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

(a) Pursuant to 326 IAC 2-6-3~~(a)(1)~~**(b)(2)**, **starting in 2008 and every three (3) years thereafter,** the Permittee shall submit by July 1 ~~of each year~~ an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

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

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC61-50, IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The emission statement 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.

(6) Per the request of the Permittee, Condition B.13(h) - Emergency Provisions has been replaced to be more consistent with Condition B.13(b)(4) as follows:

B.13 Emergency Provisions [326 IAC 2-7-16]

...

(h) The Permittee shall include all emergencies **lasting one (1) hour or more** in the Quarterly Deviation and Compliance Monitoring Report **unless the emergency report made pursuant to Condition B.13(b)(5) included a certification by the "responsible official" as defined by 326 IAC 2-7-1(34)**.

IDEM Change #1

The provisions of 326 IAC 6-5, 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable. Statements have been added to Conditions C.5 - Fugitive Dust and C.6 - Stack Height to reflect this as follows:

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). **The provisions of 326 IAC 6-5 are not federally enforceable.**

C.6 Stack Height [326 IAC 1-7]

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

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 159-25631-00017 and Significant Permit Modification No. 159-25841-00017. The staff recommend to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

Appendix A: Emissions Calculations
Summary of Modification

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/07**

	Uncontrolled PTE (tpy)					
Emission Units	NOx	CO	PM	PM10	SO2	VOC
Shotpeen 1-5	-	-	7.23	7.23	-	-
Deburr	-	-	0.22	0.22	-	-
Combustion (NG)	-	-	-	-	-	-
Heat Treat	-	-	-	-	-	28.91
Wet Machining	-	-	37.38	37.38	-	0.04
Dry Machining	-	-	31.02	31.02	-	-
Dry Hobbing	-	-	58.65	58.65	-	-
Laser Welding	-	-	-	-	-	-
Maint Welding	-	-	-	-	-	-
EFP / EG	13.54	3.05	0.94	0.94	0.24	1.17
Cooling Towers	-	-	-	-	-	-
Totals	**13.54**	**3.05**	**135.44**	**135.44**	**0.24**	**30.11**

	Controlled PTE (tpy)					
Emission Units	NOx	CO	PM	PM10	SO2	VOC
Shotpeen 1-5	-	-	0.07	0.07	-	-
Deburr	-	-	0.22	0.22	-	-
Combustion (NG)	-	-	-	-	-	-
Heat Treat	-	-	-	-	-	28.91
Wet Machining	-	-	7.48	7.48	-	0.04
Dry Machining	-	-	6.20	6.20	-	-
Dry Hobbing	-	-	58.65	58.65	-	-
Laser Welding	-	-	-	-	-	-
Maint Welding	-	-	-	-	-	-
EFP / EG	13.54	3.05	0.94	0.94	0.24	1.17
Cooling Towers	-	-	-	-	-	-
Totals	**13.54**	**3.05**	**73.56**	**73.56**	**0.24**	**30.11**

Emission Units	HAPs Uncontrolled	HAPs Controlled
Shotpeen 1-15	0.01	5.66E-05
Deburr 1-10	-	-
Combustion (NG)	-	-
Heat Treat	1.28	1.28
MACH/HOB	0.04	0.04
Laser Welding	-	-
Maint Welding	-	-
EFP / EG	0.73	0.73
Cooling Towers	-	-
Totals	**2.06**	**2.05**

Appendix A: Emissions Calculations
Summary for Entire Source

Company Name: Chrysler LLC
Address City IN Zip: Northeast Corner of State Road 28 and US 31, Tipton, IN 46072
Significant Source Modification No.: 159-25631-00017
Significant Permit Modification No.; 159-25841-00017
Reviewer: Kristen Layton
Date: 12/11/07

	Uncontrolled PTE (tpy)					
Emission Units	NOx	CO	PM	PM10	SO2	VOC
Shotpeen 1-5	-	-	7.23	7.23	-	-
Deburr	-	-	0.50	0.50	-	-
Combustion (NG)	25.02	21.02	1.90	1.90	0.15	1.38
Heat Treat	-	-	-	-	-	28.91
Wet Machining	-	-	37.38	37.38	-	0.04
Dry Machining	-	-	31.02	31.02	-	-
Dry Hobbing	-	-	139.85	139.85	-	-
Laser Welding	-	-	5.23	5.23	-	-
Maint Welding	-	-	1.10	1.10	-	-
EFP / EG	13.54	3.05	0.94	0.94	0.24	1.17
Cooling Towers	-	-	0.03	0.03	-	-
Totals	**38.56**	**24.06**	**225.18**	**225.19**	**0.39**	**31.49**

	Controlled PTE (tpy)					
Emission Units	NOx	CO	PM	PM10	SO2	VOC
Shotpeen 1-5	-	-	0.07	0.07	-	-
Deburr	-	-	0.50	0.50	-	-
Combustion (NG)	25.02	21.02	1.90	1.90	0.15	1.38
Heat Treat	-	-	-	-	-	28.91
Wet Machining	-	-	7.48	7.48	-	0.04
Dry Machining	-	-	6.20	6.20	-	-
Dry Hobbing	-	-	139.85	139.85	-	-
Laser Welding	-	-	5.23	5.23	-	-
Maint Welding	-	-	1.10	1.10	-	-
EFP / EG	13.54	3.05	0.94	0.94	0.24	1.17
Cooling Towers	-	-	0.03	0.03	-	-
Totals	**38.56**	**24.06**	**163.30**	**163.30**	**0.39**	**31.49**

Emission Units	HAPs Uncontrolled	HAPs Controlled
Shotpeen 1-15	0.01	5.66E-05
Deburr 1-10	0.00	0.00
Combustion (NG)	0.48	0.48
Heat Treat	1.28	1.28
MACH/HOB	0.04	0.04
Laser Welding	0.00	0.00
Maint Welding	0.00	0.00
EFP / EG	0.73	0.73
Cooling Towers	0.00	0.00
Totals	**2.54**	**2.53**

Appendix A: Emission Calculations
Shotpeen Units

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/20007**

A. Shotpeen unit (Shotpeen 1-5)
Number of Units: 5

Shotpeen Media	Media Density (lb/cu.ft)	No. of Nozzles	Nozzle I.D. (inch)	Nozzle (psig)	Emission Factor (lb PM/lb shot)	Maximum Rate (lb shot/hr)
TBD	200	8	0.25	47	0.00000625	52800

B. Uncontrolled Potential Emissions from Shotpeen units (Shotpeen 1-5)

Pollutant	Maximum Rate (lb shot/hr)	Emission Factor (lb/lb shot)	Emission Rate per unit (lb/hr)	Potential Emissions per unit (TPY)	Total Potential Emission for 5 units (TPY)
PM/PM10	52800	0.00000625	0.33	**1.45**	**7.23**

HAPs	% HAP/lb shot	Emission Rate per unit (lb/hr)	PTE per unit (tpy)	Total PTE for 5 units (tpy)
Mn	9.00E-04	2.97E-04	1.30E-03	6.50E-03
Ni	5.00E-04	1.65E-04	7.23E-04	3.61E-03
Pb	1.00E-04	3.30E-05	1.45E-04	7.23E-04
Total HAPs:		**4.95E-04**	**2.17E-03**	**1.08E-02**

C. Controlled Potential Emissions from Shotpeen units (Shotpeen 1-5)

Pollutant	Air Flow (ascf)	Outlet Grain Loading (gr/ascf)	Emission Rate per unit (lb/hr)	Potential Emissions per unit (TPY)	Total Potential Emission for 5 units (TPY)
PM/PM10	2120	1.80E-04	**0.00**	**0.01**	**0.07**

HAPs	HAP/lb PM	Emission Rate per unit (lb/hr)	PTE per unit (tpy)	Total PTE for 5 units (tpy)
Mn	9.00E-04	2.94E-06	1.16E-08	5.80E-08
Ni	5.00E-04	1.64E-06	7.16E-06	3.58E-05
Pb	1.00E-04	3.27E-07	1.43E-06	7.16E-06
Total HAPs:		**4.91E-06**	**8.61E-06**	**4.30E-05**

Note: 1) Emission factor for PM (0.00000625 lb PM/lb shot) based on engineering estimates. Stack testing will be required t
2) PM consists of 10% Aluminum and 90% shotpeen media
3) Shotpeen media contains 0.1% Mn; aluminum parts contain 0.5% Ni, and 0.1% Pb.
4) Mn emission factor = 0.001 lb Mn/lb shotpeen media x .9 lb shotpeen media/lb PM
5) Ni emission factor = 0.005 lb Ni/lb aluminum x .1 lb aluminum/lb PM
6) Pb emission factor = 0.001 lb Pb/lb Aluminum x .1 lb aluminum/lb PM
7) PM = PM10

Methodology:
Potential Emissions, lbs/hr = Max. Rate (lb shot/hr) x Emissions Factor (lb/lb shot)
Potential Emissions (tons/yr) = emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.
Controlled Emissions, lbs/hr = Potential Emissions (lb/hr) x (100 - efficiency (%))
Controlled Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/day x 1 ton/2,000 lbs.

to verify

Appendix A: Emission Calculations
Deburring Units

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/07**

Potential Emissions for Deburr Units (Deburr 1-18)

A. PM emissions from one Deburring Unit Density of Oil Solution = 8.1 lb/gal

Pollutant	Maximum Rate per unit (gal/yr)	Maximum Rate per unit (lb oil/hr)	Emission Factor (lb PM / lb oil) (%)	PM Potential Emissions per unit (lb/hr)	PM Potential Emissions per unit (TPY)	PM Controlled emissions per unit (lb/hr)	PM Controlled Emissions per unit (TPY)
PM/PM10	90	0.182	3.5	0.0064	0.028	0.0064	0.028

B. PM emissions from 18 Deburring Units

Pollutant	Maximum Rate (18 units) (gal/yr)	Maximum Rate (18 units) (lb/hr)	Emission Factor (lb PM / lb oil) (%)	Potential Emissions (18 units) (lb/hr)	Potential Emissions (18 units) (TPY)	Controlled Emissions (18 units) (lb/hr)	Controlled Emissions (18 units) (TPY)
PM/PM10	1620	3.281	3.5	0.115	0.503	0.115	0.503

Note: 1) Average operating hours = 4000 hrs/ year
2) Emission Factor provided by the source (based upon stack test)
3) The parts are deburred with a soluble oil solution that is sprayed through high pressure nozzles.
The oil passes through a filter system to remove particulate matter from the oil.
There are no emissions associated with filtering the oil. This step separates the particulate from the oil for reuse.
4) Oil contains no HAPs
5) Outlet grain loading per machine is less than 0.03 gr/acf

Methodology:
Maximum Rate per unit (lb/hr) = Max. Rate per unit (gal/yr) x Density of oil (lb/gal) x (1 yr/ 4000 hrs)
Potential Emissions, lbs/hr = Max. Rate (lb/hr) x Emissions Factor (%)
Potential Emissions (tons/yr) = Potential Emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.
Controlled Emissions (lbs/hr) = Potential Emissions (lb/hr) x (100 - efficiency (%))
Controlled Emissions (tons/yr) = Controlled Emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.

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

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/07**

Limited Throughput (MMCF/yr) = 500.4

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0	5.5	84.0
Potential Emission in tons/yr	1.9	1.9	0.2	25.0	1.4	21.0

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
*Source has requested that PM=PM10 emission factor

Methodology
All emission factors are based on normal firing. NOx emission factor is worst case.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Potential Emissions (tons/yr) = Emission Factor (lb/MMCF) * Limited Throughput (MMCF/yr)

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1 and 1.4-2. (SUPPLEMENT D 3/98)

Potential to Emit (HAPs)		
Hazardous Air Pollutant	Emission Factor (lb/MMCF)	PTE (TPY)
Lead	5.000E-03	1.25E-03
Formaldehyde	7.500E-02	1.88E-02
Benzene	2.130E-02	5.33E-03
Toluene	3.400E-03	8.51E-04
Hexane	1.800E+00	4.50E-01
Naphthalene	6.100E-04	1.53E-04
Dichlorobenzene	1.200E-03	3.00E-04
POM	Various Factors	2.21E-05
Arsenic	2.000E-04	5.00E-05
Beryllium	1.200E-05	3.00E-06
Cadmium	1.100E-03	2.75E-04
Chromium	1.400E-03	3.50E-04
Cobalt	8.400E-05	2.10E-05
Manganese	3.800E-04	9.51E-05
Mercury	2.600E-04	6.51E-05
Nickel	2.100E-03	5.25E-04
Selenium	2.400E-05	6.00E-06
TOTAL HAZARDOUS AIR POLLUTANTS		**0.48**

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

Emission Factors are from AP 42, Chapter 1.4, Table 1.4-3. (SUPPLEMENT D 3/98)

Appendix A: Emission Calculations
Heat Treat-Vacuum Carburizing Furnaces

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/07**

Potential Emissions from Heat Treat-Vacuum Carburizing Furnaces (Heat Treat)
Number of Units: 3

Daily PTE Per Unit		
Acetylene feed rate per unit**	4.4	lbs/hour
Carbon Content of feed**	92%	
Acetylene Feed as carbon	4.06	lbs/hr
Carbon Yield**	50%	
Rate of carbon Emission per unit	2.03	lbs/hour
Benzene Emissions based on the amount of Acetylene used per unit	2.20	lbs/hour
	52.80	lbs/day
Benzene Emissions*	2.22%	
	0.049	lbs/hour
	1.171	lbs/day
Naphthalene Emissions*	2.22%	
	0.049	lbs/hour
	1.171	lbs/day

* based on test data showing 388 g Benzene and 388 g Naphthalene and 17500 g VOCs

**based on manufacturer and test data from studies on Heat Treat - Vacuum Carburizing Furnaces

	Potential
Annual Hours of Operation:	8760

Annual PTE (tons/year)	
	Potential Emissions
VOCs* as acetylene for one unit	9.64
VOCs* as acetylene for three units	**28.91**
Benzene as acetylene for one unit	0.21
Benzene for three units	**0.64**
Naphthalene for one unit	0.21
Naphthalene for three units	**0.64**

* VOC emissions will be lower since a portion of the emissions would be as methane or ethane which are not VOCs.

Methodology:
Acetylene Feed Rate as carbon (lb/hr) = Acetylene feed rate per unit (lb/hr) x Carbon Content of Feed (%)
Rate of Carbon Emission per unit (lb/hr) = (Acetylene feed rate per unit (lb/hr) x Carbon Content of Feed (%)) x (1 - Carbon yield (%))
Potential Emissions (lbs/day) =Potential Emissions (lb/hr) x 24 hrs/day
Potential Emissions Per Unit (tons/year) =Potential Emissions (lb/hr) x 8760 hrs/year x 1 ton / 2000 lbs

Appendix A: Emission Calculations
Machining Operations (including Wet Machining and Dry Hobbing)

Company Name: Chrysler LLC
Address City IN Zip: Northeast Corner of State Road 28 and US 31, Tipton, IN 46072
Significant Source Modification No.: 159-25631-00017
Significant Permit Modification No.: 159-25841-00017
Reviewer: Kristen Layton
Date: 12/11/07

A. Potential PM emissions from Wet Machining operation
Number of Wet Machines: 94
Control Efficiency of oil mist collectors: 80%

Pollutant	outlet grain loading (gr/dscf)	flow rate (acfm)	Controlled PTE per machine (lb/hr)	Controlled PTE for 94 machines (lb/hr)	Controlled PTE per machine (TPY)	Controlled PTE for 94 machines (TPY)
PM/PM10	0.0018	1177	0.018	1.707	0.080	7.477

Note: flow rate based on manufacturer specifications (OENA-1-D-3.5)

Uncontrolled Emission Rate for one machine (lb/hr) = Controlled PTE per machine (lb/hr) / (1-control eff.) = 0.09
Uncontrolled Emission Rate for one machine (tpy) = Controlled PTE per machine (tpy) / (1-control eff.) = 0.40
Uncontrolled Emission Rate for 94 machines (tpy) = Controlled PTE for 94 machines (tpy) / (1-control eff.) = 37.38

B. Potential PM emissions from Dry Machining operation
Number of Dry Machines: 78
Control Efficiency of oil mist collectors: 80%

Pollutant	outlet grain loading (gr/dscf)	flow rate (acfm)	Controlled PTE per machine (lb/hr)	Controlled PTE for 78 machines (lb/hr)	Controlled PTE per machine (TPY)	Controlled PTE for 78 machines (TPY)
PM/PM10	0.0018	1177	0.018	1.416	0.080	6.204

Note: flow rate provided by source

Uncontrolled Emission Rate for one machine (lb/hr) = Controlled PTE per machine (lb/hr) / (1-control eff.) = 0.09
Uncontrolled Emission Rate for one machine (tpy) = Controlled PTE per machine (tpy) / (1-control eff.) = 0.40
Uncontrolled Emission Rate for 78 machines (tpy) = Controlled PTE for 78 machines (tpy) / (1-control eff.) = 31.02

C. Limited PTE from Machining
The source has requested that PM/PM10 emissions from the wet machining operations and the dry machining operations be limited to .032 lb/hr per machir

D. VOC emissions from Wet Machining Operation
Number of Wet Machines: 94

Pollutant	Maximum fluid usage per machine (lb/hr)	VOC Emission Factor (%)	VOC Content (%)	Potential emission rate 94 wet machines (lb/hr)	Potential emission rate for 94 machines (TPY)
VOC (HAP)*	0.91	100	0.01	0.008554	0.0375

* Formaldehyde is emitted as both VOC and HAP

E. Potential PM emissions from Dry Hobbing
Number of Dry Hobbing Machines: 31

Pollutant	Potential emission rate per machine (lb/hr)	Potential emission rate per machine (TPY)	Total PM emissions for 31 machines (TPY)
PM/PM10	1.03	4.51	139.85

Note: 1) All emission factors are provided by the source

Note: 1) Outlet grain loading for PM (0.0018 gr/dscf) based on stack test at Kokomo Casting Plant multiplied by 25%
2) PM = PM10
3) 100% of VOC is assumed to be formaldehyde

Methodology:
Controlled Emissions, lbs/hr = outlet grain loading (gr/dscf) x flow rate (acfm) x 60 min / 1 hr x 1 lb/ 7000 gr
Controlled Emissions (tons/yr) = controlled emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.

Appendix A: Emission Calculations
Laser Welders

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/07**

Potential and controlled emissions from Laser Welders
Number of units: 4

A. PM/PM10 emissions one Laser Welder

Pollutant	Air Flow (acfm)	Outlet Grain Loading (grain/acfm)	Outlet PM per one unit (lb/hr)	Control Efficiency (%)	Potential Emissions per one unit (lb/hr)	Potential Emissions per one unit (TPY)
PM/PM10	1200	0.029	0.298	0	0.30	1.31

B. PM/PM10 emissions from 4 Laser Welders

Pollutant	Potential Emissions		Potential Emissions	
	(lb/hr)	(TPY)	(lb/hr)	(TPY)
PM/PM10	1.19	5.23	1.19	5.23

Note: Emission factor of 0.005 gr/dscf is provided by the manufacturer of the equipment

Methodology:
Potential Emissions (lbs/hr) = Inlet Grain Loading (gr/acfm) x Air Flow (acfm) x 60 (min/hr) x 1/7000 (lb/gr)
Potential Emissions (tons/yr) = Potential Emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.

Appendix A: Emission Calculations
Maintenance Welding Operations

Company Name: **Chrysler LLC**
Address City IN Zip: **Northeast Corner of State Road 28 and US 31, Tipton, IN 46072**
Significant Source Modification No.: **159-25631-00017**
Significant Permit Modification No.: **159-25841-00017**
Reviewer: **Kristen Layton**
Date: **12/11/07**

A. Potential and controlled emissions from Maintenance Welding Operations (Maint Weld)

Pollutant	Maximum Usage (lb/hr)	Emission Factor (%)	Control Efficiency (%)	Potential Emissions (lb/hr)	Potential Emissions (TPY)
PM/PM10	1.14	2	0	0.023	0.100

B. Potential and controlled emissions from Maintenance Welding Operations (Welding Wire)

Pollutant	Maximum Usage (lb/hr)	Emission Factor (%)	Control Efficiency (%)	Potential Emissions (lb/hr)	Potential Emissions (TPY)
PM/PM10	11.4	2	0	0.228	0.999

Note: 1) Source of emission factor: Daimler Chrysler Emission Estimation Manual

Methodology:
Potential Emissions (lbs/hr) = Max. Usage (lb/hr) x Emission Factor (%)
Potential Emissions (tons/yr) = Potential Emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.

Appendix A: Emission Calculations
Emergency Fire Pumps (EFP)

Company Name: Chrysler LLC
Address City IN Zip: Northeast Corner of State Road 28 and US 31, Tipton, IN 46072
Significant Source Modification No.: 159-25631-00017
Significant Permit Modification No.: 159-25841-00017
Reviewer: Kristen Layton
Date: 12/11/07

Emission Factors NSPS, Subpart IIII, for Model Year (MY) 2008 and Earlier - Emergency Fire Pumps
Between 130 and 225 kw (175 to 300 hp)

NOx + NMHC	10.5 g/kwh	7.8 g/hp-hr
CO	3.5 g/kwh	2.6 g/hp-hr
PM-10/PM-2.5/TSP	0.54 g/kwh	0.4 g/hp-hr

Emission Factors from AP-42 Gasoline and Diesel Industrial Engines, Table 3.3-1 (10-96)

SOx Emission Factors	0.00205 lb/hp-hr	0.0005125 lb/hp-hr	LSD fuel assume 75% reduction in emissions
TOC Emission Factor	0.0025141 lb/hp-hr		
NOx	0.031 lb/hp-hr		
CO	0.00668 lb/hp-hr		
PM/PM10	0.0022 lb/hp-hr		

A. Potential emissions

			Emissions				
Emission Calculations	**Horsepower (total) (hp)**	**Maximum Operating Hours (hr/yr) per unit**	**NOx (TPY)**	**CO (TPY)**	**SOx (TPY)**	**PM (TPY)**	**TOC (TPY)**
Fire Pump	250	500	1.075	0.358	0.032	0.055	0.157
Emergency Generator	1609	500	12.470	2.687	0.206	0.885	1.011
		Total Emissions	**13.54**	**3.05**	**0.24**	**0.94**	**1.17**

B. HAP Emissions

		Emissions @ 500 Annual Operating Hours			
		1 EFP		Emergency Generator	
Pollutant	**Emission Factor (lb/hp-hr)**	**Potential Emissions (lb/hr)**	**Potential Emissions (TPY)**	**Potential Emissions (lb/hr)**	**Potential Emissions (TPY)**
Hazardous Air Pollutants:					
Benzene	7.76E-04	1.94E-01	4.85E-02	1.25E+00	0.31
Toluene	2.81E-04	7.03E-02	1.76E-02	4.52E-01	0.11
Xylenes	1.93E-04	4.83E-02	1.21E-02	3.11E-01	0.08
1,3-Butadiene	7.89E-05	1.97E-02	4.93E-03	1.27E-01	0.03
Formaldehyde	7.88E-06	1.97E-03	4.93E-04	1.27E-02	0.00
Acrolein	2.52E-05	6.30E-03	1.58E-03	4.05E-02	0.01
Naphthalene	1.30E-04	3.25E-02	8.13E-03	2.09E-01	0.05
POM	Various Factors	2.04E-02	5.10E-03	1.31E-01	3.28E-02
TOTAL HAZARDOUS AIR POLLUTANTS		**0.393**	**0.10**	**2.532**	**0.63**

Methodology:
- A factor of 453.54 g/lb was used to convert g/hp-hr to lb/hp-hr
- HAPs Emission Factors (lb/MMBtu) [AP-42 Gasoline and Diesel Industrial Engines, Table 3.3-2 (10-96)
- SOx emission factor from AP-42 Gasoline and Diesel Industrial Engines. Reduction of 75% based upon average fuel sulfur content through year 2005 of 2000 ppm and required use of Low Sulfur Diesel (LSD) with a maximum sulfur content of 500 ppm. EPA 420-R-04-0007: Final Regulatory Analysis: Control of Emissions from Nonroad Diesel Engines, page 3-91.

Fire Pump NOx, CO and PM/PM10 emission factors from NSPS, Subpart IIII
- Emission (tons/yr) = [Maximum Operation (hp-hr/yr) x Emission Factor (g/hp-hr) / 453.54] / (2,000 lb/ton)

All other emission factors from AP-42 Gasoline and Diesel Industrial Engines, Table 3.3-1 (10-96)
- Emission (tons/yr) = [Maximum Operation (hp-hr/yr) x Emission Factor (lb/hp-hr) / (2,000 lb/ton)

Appendix A: Emission Calculations
Cooling Towers

Company Name: Chrysler LLC
Address City IN Zip: Northeast Corner of State Road 28 and US 31, Tipton, IN 46072
Significant Source Modification No.: 159-25631-00017
Significant Permit Modification No.: 159-25841-00017
Reviewer: Kristen Layton
Date: 12/11/07

A. Potential and Controlled emissions for one Cooling Tower

Pollutant	Maximum Capacity (gal/min)	Total Liquid Drift (%)	Emission Factor (lb/1000 gal)	Potential Emissions (lb/hr)	Control Efficiency (%)	Controlled Emissions (lb/hr)
PM10	4200	0.02	0.019	0.0010	0	0.0010

B. Total Potential and Controlled emissions from seven Cooling Towers

Number of Units: 7

Pollutant	Potential Emissions (lb/hr)	Potential Emissions (TPY)	Controlled Emissions (lb/hr)	Controlled Emissions (TPY)
PM10	0.0077	0.0336	0.0067	0.0294

Note: Emission Factors for Cooling Towers are from AP 42, Chapter 13.4, Table 13.4-1

Methodology:
Potential Emissions (lbs/hr) = Max. Capacity (gal/min) x 60 (min/hr) x Total Liquid Drift (%) x Emission Factor (lb/1000 gal)
Potential Emissions (tons/yr) = Potential Emissions (lb/hr) x 8,760 hrs/day x 1 ton/2,000 lbs.