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: March 10, 2011

RE: Valeo Engine Cooling, Inc. / 031-29500-00014

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07

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Federally Enforceable State Operating Permit Renewal
OFFICE OF AIR QUALITY

Valeo Engine Cooling, Inc.
1100 East Barachel Lane,
Greensburg, Indiana 47240

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. 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 2-8 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation, or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F031-29500-00014	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 10, 2011 Expiration Date: March 10, 2021

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary automotive condenser, radiator, and cooling module fabrication operation.

Source Address:	1100 East Barachel Lane, Greensburg, Indiana 47240
General Source Phone Number:	(812) 527-3028
SIC Code:	3714
County Location:	Decatur
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

(a) One (1) NOCOLOK radiator, condenser, and charge air cooler manufacturing process, consisting of the following:

(1) One (1) Core assembly process, identified as Core Assembly, constructed in 1995, consisting of associated fin mills, core builders, tube mills, turbulators, and other related equipment, using evaporative oils containing a maximum VOC content of two and four tenths (2.4) pounds per gallon of oil or less, uncontrolled and exhausting inside the building. The equipment under the core assembly process is not stationary and can be moved from one location to another within the facility depending on the production needs.

(2) One (1) braze line, identified as Braze Line #1, constructed in 1991, with a maximum capacity of two hundred (200) aluminum cores (2,000 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of three and two tenths (3.2) MMBtu per hour, uncontrolled and exhausting at stack PE-20;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and two tenths (1.2) MMBtu per hour, uncontrolled and exhausting at stack PE-22; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-23 and PE-24, respectively.

(3) One (1) braze line, identified as Braze Line #2, constructed in 1995, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-31;

(B) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-35 and PE-36, respectively.

(4) One (1) braze line, identified as Braze Line #3, constructed in 1996, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-44;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-47; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-48 and PE-49, respectively.

(5) One (1) braze line, identified as Braze Line #5, constructed in 1997, with a maximum capacity of one hundred thirty (130) aluminum cores (2,250 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of two and five tenths (2.5) MMBtu per hour, uncontrolled and exhausting at stack PE-59;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-62; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-63 and PE-64, respectively.

(6) One (1) braze line, identified as Braze Line #6, constructed in 1997, with a maximum capacity of five hundred (500) aluminum cores (7,500 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting to stack PE-600A, B;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-602; and

(D) One (1) nitrogen electric braze oven and cool down station exhausting at stacks PE-603A and PE-603B, respectively.

(7) One (1) braze line, identified as Braze Line #8, constructed in 2009, with a maximum capacity of two hundred (200) radiators (5,718 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-59;

(B) One (1) spray fluxer with a maximum capacity of eighty-eight (88.0) pounds (40,000 grams) of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven with a maximum heat input capacity of eight tenths (0.8) MMBtu per hour and exhausting at stack PE-702;

(D) One (1) natural gas-fired braze furnace convection pre-heat chamber with a maximum input capacity of two (2.0) MMBtu per hour, uncontrolled and exhausting at stack PE-702; and

(E) One (1) electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-703A and PE-703B, respectively.

(8) Powder coating operations, constructed in 1989, and including the following:

(A) One (1) electrostatic powder paint booth and filter system, identified as paint booth #1, with a maximum material usage rate of twelve (12.0) pounds of paint per hour, controlled by one (1) integral cartridge filter system used to reclaim the unused powder paint for reuse, and a second filter system for particulate control, and exhausting inside the building;

(B) One (1) electrostatic powder paint booth and filter system, identified as paint booth #2, with a maximum material usage rate of twenty-three (23.0) pounds of paint per hour, controlled by one (1) integral cartridge filter system used to reclaim the unused powder paint for reuse, and a second filter system for particulate control, and exhausting inside the building;

(C) Two (2) natural gas-fired paint dry-off ovens, with a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, each, uncontrolled and exhausting at stacks PE-29 and PE-605, respectively; and

(D) One (1) natural gas-fired paint hook burn-off oven, with a maximum heat input capacity of four hundred seventy-five thousandths (0.475) MMBtu per hour, uncontrolled and exhausting at stack PE-28.

(9) Three (3) robotic arc welders, with a combined maximum electrode consumption of two and one tenth (2.1) pounds per hour, uncontrolled and exhausting inside the building.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

(a) One (1) natural gas-fired boiler, installed in 2001, with a maximum heat input capacity of one and seven tenths (1.7) MMBtu per hour, uncontrolled and exhausting inside the building. [326 IAC 6-2-4]

(b) Brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3]

(c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(d) Combustion source flame safety purging on startup.

(e) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

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

(g) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.

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

(i) Cleaners and solvents having a vapor pressure equal to less than two (2.0) kPa; fifteen (15) mm Hg; or two (2.0) psi measured at thirty-eight (38 ºC) degrees Celsius (100 ºF).

(j) Closed loop heating and cooling system.

(k) Forced and induced draft cooling tower system not regulated under a NESHAP.

(l) Quenching operations used with heat treating processes.

(m) Heat exchanger cleaning and repair.

(n) Process vessel degassing and cleaning to prepare for internal repairs.

(o) Purging of gas lines and vessels that is related to routine 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.

(p) 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.

(q) Blow-down for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

(r) On-site fire and emergency response training approved by the department.

(s) Stationary fire pumps.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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

B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, F031-29500-00014, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

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

B.5 Severability [326 IAC 2-8-4(4)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

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

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

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

(1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and

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

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

(c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

(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 2-8-4(3); and

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

(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 except as provided in 326 IAC 2-8-12.

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Southeast Regional Office phone: (812) 358-2027; fax: (812) 358-2058**.**

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-3(c)(6) 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 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) 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.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

(a) All terms and conditions of permits established prior to F031-29500-00014 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

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

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-8(a)]

(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 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

(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 2-8-3. 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 a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

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

(1) Submitted at least 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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 has been obtained;

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

(4) The Permittee notifies the:

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

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

B.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

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

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

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

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

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than 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) 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.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(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 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

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

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

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

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

(A) Asbestos removal or demolitions start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.13 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

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

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

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

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

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.15 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

C.16 General Reporting Requirements [326 IAC 2-8-4(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 except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

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

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

Stratospheric Ozone Protection

C.17 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description [326 IAC 2-8-4(10)]:

(a) One (1) NOCOLOK radiator, condenser, and charge air cooler manufacturing process, consisting of the following:

(1) One (1) Core assembly process, identified as Core Assembly, constructed in 1995, consisting of associated fin mills, core builders, tube mills, turbulators, and other related equipment, using evaporative oils containing a maximum VOC content of two and four tenths (2.4) pounds per gallon of oil or less, uncontrolled and exhausting inside the building. The equipment under the core assembly process is not stationary and can be moved from one location to another within the facility depending on the production needs.

(2) One (1) braze line, identified as Braze Line #1, constructed in 1991, with a maximum capacity of two hundred (200) aluminum cores (2,000 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of three and two tenths (3.2) MMBtu per hour, uncontrolled and exhausting at stack PE-20;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and two tenths (1.2) MMBtu per hour, uncontrolled and exhausting at stack PE-22; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-23 and PE-24, respectively.

(3) One (1) braze line, identified as Braze Line #2, constructed in 1995, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-31;

(B) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-35 and PE-36, respectively.

(4) One (1) braze line, identified as Braze Line #3, constructed in 1996, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-44;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-47; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-48 and PE-49, respectively.

(5) One (1) braze line, identified as Braze Line #5, constructed in 1997, with a maximum capacity of one hundred thirty (130) aluminum cores (2,250 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of two and five tenths (2.5) MMBtu per hour, uncontrolled and exhausting at stack PE-59;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-62; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-63 and PE-64, respectively.

(6) One (1) braze line, identified as Braze Line #6, constructed in 1997, with a maximum capacity of five hundred (500) aluminum cores (7,500 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting to stack PE-600A, B;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-602; and

(D) One (1) nitrogen electric braze oven and cool down station exhausting at stacks PE-603A and PE-603B, respectively.

(7) One (1) braze line, identified as Braze Line #8, constructed in 2009, with a maximum capacity of two hundred (200) radiators (5,718 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-59;

(B) One (1) spray fluxer with a maximum capacity of eighty-eight (88.0) pounds (40,000 grams) of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven with a maximum heat input capacity of eight tenths (0.8) MMBtu per hour and exhausting at stack PE-702;

(D) One (1) natural gas-fired braze furnace convection pre-heat chamber with a maximum input capacity of two (2.0) MMBtu per hour, uncontrolled and exhausting at stack PE-702; and

(E) One (1) electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-703A and PE-703B, respectively.

(8) Powder coating operations, constructed in 1989, and including the following:

(A) One (1) electrostatic powder paint booth and filter system, identified as paint booth #1, with a maximum material usage rate of twelve (12.0) pounds of paint per hour, controlled by one (1) integral cartridge filter system used to reclaim the unused powder paint for reuse, and a second filter system for particulate control, and exhausting inside the building;

(B) One (1) electrostatic powder paint booth and filter system, identified as paint booth #2, with a maximum material usage rate of twenty-three (23.0) pounds of paint per hour, controlled by one (1) integral cartridge filter system used to reclaim the unused powder paint for reuse, and a second filter system for particulate control, and exhausting inside the building;

(C) Two (2) natural gas-fired paint dry-off ovens, with a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, each, uncontrolled and exhausting at stacks PE-29 and PE-605, respectively; and

(D) One (1) natural gas-fired paint hook burn-off oven, with a maximum heat input capacity of four hundred seventy-five thousandths (0.475) MMBtu per hour, uncontrolled and exhausting at stack PE-28.

(9) Three (3) robotic arc welders, with a combined maximum electrode consumption of two and one tenth (2.1) pounds per hour, uncontrolled and exhausting inside the building.

(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 2-8-4(1)]

D.1.1 BACT Limit [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6 (BACT), the Permittee shall comply with the following:

(a) The VOC input from the evaporating oil usage in the one (1) NOCOLOK radiator, condenser, and charge air cooler manufacturing process shall not exceed eighty-seven (87.0) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) The Permittee shall use oils containing no more than two and four tenths (2.4) pounds of VOC per gallon of oil utilized on all fin mills, tube mills, and turbulator mills;

(c) The Permittee shall use a micro-coat application system on all fin mills, tube mills, and turbulator mills to minimize oil usage.

D.1.2 Particulate [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each of the brazing operations, performed in the electric braze ovens, and accompanying cool down stations shall not exceed the pounds per hour limitations listed in the table below:

Emission ID	Process Weight Rate		326 IAC 6-3 Allowable Emission Rate (lbs/hour)
	(lbs/hour)	(tons/hour)	
Line #1 Braze Oven & Cool Down Station	2,000	1.00	4.10
Line #2 Braze Oven & Cool Down Station	3,800	1.90	6.30
Line #3 Braze Oven & Cool Down Station	3,800	1.90	6.30
Line #5 Braze Oven & Cool Down Station	2,250	1.12	4.43
Line #6 Braze Oven & Cool Down Station	7,500	3.75	9.93
Line #8 Braze Oven & Cool Down Station	5,718	2.86	8.29

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the two (2) electrostatic powder paint booths (identified as paint booths #1 and #2), comprising the powder coating operations, shall not exceed the pounds per hour limitations listed in the table below:

Emission ID	Process Weight Rate		326 IAC 6-3 Allowable Emission Rate (lbs/hour)
	(lbs/hour)	(tons/hour)	
Paint Booth #1	12	0.006	0.13
Paint Booth #2	23	0.012	0.21

These limitations were calculated as follows:

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 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2-2 (Incinerators), the paint hook burn-off oven shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(e) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators.

If any of the above requirements are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC content and usage limits contained in Conditions D.2.1(a) and D.2.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the “as supplied” and “as applied” VOC data sheets. IDEM, OAQ**,** reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.6 Particulate Control

In order to comply with Condition D.2.3(b), the integral cartridge filter system used in conjunction with the electrostatic powder coating operations, shall be in operation and control emissions from the two (2) electrostatic powder paint booths at all times when either or both of the two (2) electrostatic powder paint booths are in operation.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.7 Record Keeping Requirements

(a) To document the compliance status with Conditions D.2.1(a) and D.2.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC content and VOC usage limits established in Conditions D.2.1(a) and D.2.2.

(1) The VOC content of each evaporating oil used;

(2) The amount of evaporating oils used on a monthly basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used; and

(3) The total VOC usage for each month.

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

D.1.8 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.2.1(a) and D.2.2 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee’s obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSION UNIT OPERATION CONDITIONS

Emission Unit Description [326 IAC 2-8-4(10)]: Boiler

(a) One (1) natural gas-fired boiler, installed in 2001, with a maximum heat input capacity of one and seven tenths (1.7) million British thermal units (MMBtu) per hour. [326 IAC 6-2-4]

(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 2-8-4(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), PM emissions from the one (1) natural gas-fired boiler shall not exceed six tenths (0.6) lbs PM per MMBtu.

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

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Valeo Engine Cooling, Inc.
Source Address: 1100 East Barachel Lane, Greensburg, Indiana 47240
FESOP Permit No.: F031-29500-00014

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:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE AND ENFORCEMENT BRANCH

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: Valeo Engine Cooling, Inc.
Source Address: 1100 East Barachel Lane, Greensburg, Indiana 47240
FESOP Permit No.: F031-29500-00014

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

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE AND ENFORCEMENT BRANCH

FESOP Quarterly Report

Source Name: Valeo Engine Cooling, Inc.
Source Address: 1100 East Barachel Lane, Greensburg, Indiana 47240
FESOP Permit No.: F031-29500-00014
Facility: NOCOLOK radiator, condenser, and charge air cooler manufacturing process.
Parameter: Volatile Organic Compounds (VOCs)
Limit: Volatile Organic Compound (VOC) input from the usage of evaporating oils in the one (1) NOCOLOK radiator, condenser, and charge air cooler manufacturing process shall not exceed eighty-seven (87) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

MONTH: _____ QUARTER: _____ YEAR: _____

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

☐ No deviation occurred in this quarter.

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

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE AND ENFORCEMENT BRANCH

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Valeo Engine Cooling, Inc.
Source Address: 1100 East Barachel Lane, Greensburg, Indiana 47240
FESOP Permit No.: F031-29500-00014

Months: _____ to _____ Year: _____

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

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
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: _____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit Renewal

Source Background, Description, and Location

Source Name:	Valeo Engine Cooling, Inc.
Source Location:	1100 East Barachel Lane, Greensburg, IN 47240
County:	Decatur
SIC Code:	3714
Permit Renewal No.:	F031-29500-00014
Permit Reviewer:	Hannah L. Desrosiers

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Valeo Engine Cooling, Inc. relating to the continued operation of their existing stationary automotive condenser, radiator, and cooling module fabrication operation.

On June 26, 2010, Valeo Engine Cooling, Inc. submitted an application to the OAQ requesting to renew its operating permit. In June 2009, Valeo Engine Cooling, Inc. applied for the removal of the existing Braze Line #7, and construction and operation of a new braze line, Braze Line #8. In April 2009, Valeo Engine Cooling, Inc. requested the permit be updated to reflect a change in ownership and company name. Valeo Engine Cooling, Inc. was issued a FESOP in April 2006.

This source is an ESP source.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

(a) One (1) NOCOLOK radiator, condenser, and charge air cooler manufacturing process, consisting of the following:

(1) One (1) Core assembly process, identified as Core Assembly, constructed in 1995, consisting of associated fin mills, core builders, tube mills, turbulators, and other related equipment, using evaporative oils containing a maximum VOC content of two and four tenths (2.4) pounds per gallon of oil or less, uncontrolled and exhausting inside the building. The equipment under the core assembly process is not stationary and can be moved from one location to another within the facility depending on the production needs.

(2) One (1) braze line, identified as Braze Line #1, constructed in 1991, with a maximum capacity of two hundred (200) aluminum cores (2,000 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of three and two tenths (3.2) MMBtu per hour, uncontrolled and exhausting at stack PE-20;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and two tenths (1.2) MMBtu per hour, uncontrolled and exhausting at stack PE-22; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-23 and PE-24, respectively.

(3) One (1) braze line, identified as Braze Line #2, constructed in 1995, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-31;

(B) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-35 and PE-36, respectively.

(4) One (1) braze line, identified as Braze Line #3, constructed in 1996, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-44;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-47; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-48 and PE-49, respectively.

(5) One (1) braze line, identified as Braze Line #5, constructed in 1997, with a maximum capacity of one hundred thirty (130) aluminum cores (2,250 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of two and five tenths (2.5) MMBtu per hour, uncontrolled and exhausting at stack PE-59;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-62; and

(D) One (1) nitrogen electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-63 and PE-64, respectively.

(6) One (1) braze line, identified as Braze Line #6, constructed in 1997, with a maximum capacity of five hundred (500) aluminum cores (7,500 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting to stack PE-600A, B;

(B) One (1) spray fluxer with a maximum capacity of eleven (11.0) pounds of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, uncontrolled and exhausting at stack PE-602; and

(D) One (1) nitrogen electric braze oven and cool down station exhausting at stacks PE-603A and PE-603B, respectively.

(7) One (1) braze line, identified as Braze Line #8, constructed in 2009, with a maximum capacity of two hundred (200) radiators (5,718 pounds) per hour and consisting of the following:

(A) One (1) natural gas-fired core conditioning oven with a maximum heat input capacity of four (4.0) MMBtu per hour, uncontrolled and exhausting at stack PE-59;

(B) One (1) spray fluxer with a maximum capacity of eighty-eight (88.0) pounds (40,000 grams) of flux per hour, uncontrolled and exhausting inside the building;

(C) One (1) natural gas-fired flux dry-off oven with a maximum heat input capacity of eight tenths (0.8) MMBtu per hour and exhausting at stack PE-702;

(D) One (1) natural gas-fired braze furnace convection pre-heat chamber with a maximum input capacity of two (2.0) MMBtu per hour, uncontrolled and exhausting at stack PE-702; and

(E) One (1) electric braze oven and cool down station, uncontrolled and exhausting at stacks PE-703A and PE-703B, respectively.

(8) Powder coating operations, constructed in 1989, and including the following:

(A) One (1) electrostatic powder paint booth and filter system, identified as paint booth #1, with a maximum material usage rate of twelve (12.0) pounds of paint per hour, controlled by one (1) integral cartridge filter system used to reclaim the unused powder paint for reuse, and a second filter system for particulate control, and exhausting inside the building;

(B) One (1) electrostatic powder paint booth and filter system, identified as paint booth #2, with a maximum material usage rate of twenty-three (23.0) pounds of paint per hour, controlled by one (1) integral cartridge filter system used to reclaim the unused powder paint for reuse, and a second filter system for particulate control, and exhausting inside the building;

(C) Two (2) natural gas-fired paint dry-off ovens, with a maximum heat input capacity of one and five tenths (1.5) MMBtu per hour, each, uncontrolled and exhausting at stacks PE-29 and PE-605, respectively; and

(D) One (1) natural gas-fired paint hook burn-off oven, with a maximum heat input capacity of four hundred seventy-five thousandths (0.475) MMBtu per hour, uncontrolled and exhausting at stack PE-28.

(9) Three (3) robotic arc welders, with a combined maximum electrode consumption of two and one tenth (2.1) pounds per hour, uncontrolled and exhausting inside the building.

Insignificant Activities

The source also consists of the following insignificant activities:

(a) One (1) natural gas-fired boiler, installed in 2001, with a maximum heat input capacity of one and seven tenths (1.7) MMBtu per hour, uncontrolled and exhausting inside the building. [326 IAC 6-2-4]

(b) Brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3]

(c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(d) Combustion source flame safety purging on startup.

(e) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

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

(g) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.

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

(i) Cleaners and solvents having a vapor pressure equal to less than two (2.0) kPa; fifteen (15) mm Hg; or two (2.0) psi measured at thirty-eight (38 ºC) degrees Celsius (100 ºF).

(j) Closed loop heating and cooling system.

(k) Forced and induced draft cooling tower system not regulated under a NESHAP.

(l) Quenching operations used with heat treating processes.

(m) Heat exchanger cleaning and repair.

(n) Process vessel degassing and cleaning to prepare for internal repairs.

(o) Purging of gas lines and vessels that is related to routine 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.

(p) 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.

(q) Blow-down for any of the following: sight glass, boiler, compressors, pumps, and cooling tower.

(r) On-site fire and emergency response training approved by the department.

(s) Stationary fire pumps.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

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

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

(a) One (1) 6 mm Condenser process, constructed in 1989, with a capacity of 300 aluminum cores per hour, using a wet scrubber (CE-3) as control, and exhausting at stack PE-3. This line consists of:

(1) One (1) solder line (EU-3) installed in 1989, modified in 1996, and consisting of one (1) fluxer, one (1) natural gas-fired solder oven with a maximum heat input capacity of 1.65 MMBtu per hour, and a water quench station;

(2) One (1) natural gas-fired Rogers dry off oven with a maximum heat input capacity of 1.60 MMBtu per hour;

(3) One (1) electrostatic powder paint booth (identified as paint booth #3) and filter system installed in 1992, with maximum usage of 8.25 pounds of powder paint per hour;

(4) One (1) natural gas fired paint dry off oven with a maximum heat input capacity of 1.50 MMBtu per hour;

(5) One (1) paint hook burn off oven, with a maximum heat input capacity of 0.475 MMBtu per hour, and exhausting at stack PE-28; and

(6) Miscellaneous assembly and testing equipment.

(b) One (1) braze line, identified as Braze Line #2, constructed in 1995, with a maximum capacity of two hundred fifty (250) aluminum cores (3,800 pounds) per hour and consisting of the following:

*****

(B) One (1) spray fluxer with a maximum capacity of 11 pounds of flux per hour;

(C) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of 1.5 MMBtu per hour and exhausting at stack PE-23; and

Note: Only items (B) and (C) have been removed from Braze Line #2, not the entire unit.

(c) One (1) NOCOLOK prototype process used for providing test parts for customer testing and consisting of:

(1) Core assembly process using fin mills, core builders, tube mills, and other related equipment using evaporative oils at 2.4 pounds of VOC per gallon of oil or less;

(2) One (1) spray fluxer with a maximum capacity of 11 pounds of flux per hour;

(3) One (1) natural gas-fired flux dry-off oven a maximum heat input capacity of 0.4 MMBtu per hour;

(4) One (1) nitrogen electric braze oven and cool down station; and

(5) Miscellaneous assembly and test equipment.

(d) One (1) mechanical radiator manufacturing process (EU-53) consisting of the following:

(1) Two (2) fin press lines (P0 and P1) each with a maximum usage rate of 3.29 pounds of evaporative oils hour or 4.7 pounds of VOC per gallon of oil or less;

(2) Two (2) expanders which use 1.3 pounds of VOC per gallon of oil or less; and

(3) Miscellaneous assembly and testing equipment.

(e) One (1) natural gas-fired boiler, with a maximum heat input capacity of 1.7 MMBtu per hour. This boiler was installed in 2001. [326 IAC 6-2-4]

Air Pollution Control Justification as an Integral Part of the Process

An "integral to process" determination was conducted and approved for the first cartridge filter system used in conjunction with the two (2) electrostatic powder paint booths, located at one (1) NOCOLOK radiator, condenser and charge air cooler manufacturing process, during the review for FESOP No.: F031-21314-00014, issued on April 24, 2006.

IDEM determined that the first cartridge filter system used in conjunction with the electrostatic powder paint booths be considered as an integral part of each of the powder paint booths because the reuse of the powder paint collected in the reclaim hoppers resulted in a significant cost savings when compared to the cost of the controls.

Therefore, emissions from each of the electrostatic powder paint booths are still calculated after consideration of the control device. Operating conditions in the permit will continue to specify that the first cartridge filter system used in conjunction with the two (2) electrostatic powder paint booths shall operate at all times that each of the electrostatic powder paint booths is in operation.

Existing Approvals

Since the issuance of FESOP No.: F031-21314-00014, on April 24, 2006, the source has constructed or has been operating under the following additional approvals:

(a) Administrative Amendment No.: F031-27830-00014, issued on May 21, 2009; and

(b) Administrative Amendment No.: F031-28077-00014, issued on June 11, 2009.

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

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

(a) During this review, the emissions calculations were updated to reflect the source's most current "worst-case" operating conditions for all units, and includes emissions not previously counted. Additionally, since OAQ relies on the most up-to-date emission factors recommended by U.S. EPA, facility emissions have been characterized using the most recent version of U.S. EPA's AP-42 emission factors, where applicable.

(b) The emission rate for each of the spray fluxers comes from a stack test conducted at the source in 1995 on two (2) of the existing fluxers.

(c) The emission rate for the Braze Line #8 spray fluxer (as determined on pg Page 4 of 5; TSD, Appendix A for revision # F031-28077-00014) is calculated as a proportion of the emission rate from the recently removed Braze Line #7 fluxer, and is based on the maximum material usage (lb/hr) from both lines.

(d) The ovens for Braze Lines # 1, 2, 3, 5, 6 & 8 are powered by electricity; therefore, no combustion emissions have been calculated. The braze furnace convection pre-heat chamber for Braze Line #8 is natural gas-fired; therefore, combustion emissions are addressed in Appendix A.

(e) The emission rate for each of the electric braze ovens, and associated cool down stations, comes from a stack test conducted at the source in 1995.

(f) The emission rate for the Braze Line #8 Oven and Cool Down Station (as determined on Page 5 of 5; TSD, Appendix A for revision # F031-28077-00014) was estimated to be 1.5x the emission rate of the recently removed Braze Line #7, based on oven size.

(g) The cartridge filter system serving the two (2) Electrostatic Powder Paint Booths is still considered "integral" to the powder coating operations. Therefore, potential emissions, when determining the permitting level, are evaluated after consideration of the control.

(h) Based on MSDS submitted by the source, there are no VOCs or HAPs contained in the powder paint.

County Attainment Status

The source is located in Decatur County. The following attainment status designations are applicable to Decatur County:

Pollutant	Designation
SO2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O3	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard.[1]
PM10	Unclassifiable effective November 15, 1990.
PM2.5	Unclassifiable or attainment effective April 5, 2005.
NO2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

(a) Ozone Standards

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

(b) PM2.5

Decatur County has been classified as attainment for PM2.5. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions. These rules became effective on July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

Decatur 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.

Fugitive Emissions

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

Unrestricted Potential Emissions

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	tons/year
PM	33.64
PM10	34.41
PM2.5	34.41
SO2	0.08
NOx	13.47
VOC	94.93
CO	11.32

HAPs	tons/year
Hexane	0.243
Nickel	0.035
Chromium	0.015
Manganese	0.010
Formaldehyde	0.010
All other HAPs	1.12E-03
Total HAPs	**0.322**

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

(a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of PM10, PM2.5 and VOCs are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. However, the Permittee has opted to retain their existing FESOP status; therefore, the Permittee will be issued a FESOP Renewal. FESOP applicability is discussed under the "Potential to Emit after Issuance" section below.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are still less than one hundred (100) tons per year.

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is still less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of any combination of HAPs is still less than twenty-five (25) tons per year.

Potential to Emit after Issuance

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

Process/ Emission Unit	Potential To Emit of the Entire Source after Issuance of FESOP Renewal (tons/year)								
	PM	**PM10***	**PM2.5**	**SO_2**	**NOx**	**VOC**	**CO**	**Total HAPs**	**Worst Single HAP**
NOCOLOK Manufacturing Process									
Core Assembly (Process)	0	0	0	0	0	< 87.0 (1)	0	0	NA
Natural Gas-Fired Core Conditioning Ovens (Combustion)	0.14	0.58	0.58	0.05	7.60		6.38	0.143	0.137 (hexane)
Spray Fluxers (Process)	1.30	1.30	1.30	---	---		---	---	NA
Natural Gas-Fired Flux Dry-Off Ovens (Combustion)	0.05	0.21	0.21	0.02	2.79		2.34	0.053	0.050 (hexane)
Electric Braze Ovens w/ Cooling Stations (Process)	21.49	21.49	21.49	0	0		0	0	NA
Convection Pre Heat Chamber (Braze Line #8) (Combustion)	0.02	0.07	0.07	0.01	0.86	0.05	0.72	0.016	0.015 (hexane)
Electrostatic Powder Paint Booths (Process)	3.36 (2)	3.36 (2)	3.36 (2)	0.0	0.0	0.0	0.0	0.0	NA
Paint Dry-Off Ovens (Combustion)	0.02	0.10	0.10	0.01	1.29	0.07	1.08	0.024	0.023 (hexane)
Paint Hook Burn-Off Oven (Process)	6.57	6.57	6.57	0.0	0.0	0.0	0.0	0.0	NA
Natural Gas-Fired Paint Hook Burn-Off Oven (Combustion)	3.88E-3	0.02	0.02	1.22E-3	0.20	0.01	0.17	0.004	3.67E-3 (hexane)
Robotic Welders (MIG) (Process)	0.67	0.67	0.67	0.0	0.0	0.0	0.0	0.059	0.034 (nickel)
Natural Gas-Fired Boiler (Combustion)	0.01	0.06	0.06	4.38E-3	0.73	0.04	0.61	0.014	0.013 (hexane)
Total PTE of Entire Source	**33.64**	**34.41**	**34.41**	**0.08**	**13.47**	**87.17**	**11.32**	**0.32**	**0.24 (hexane)**
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = not applicable

The emissions contained in this table are based upon TV No. F031-21314-00014. IDEM was not required to quantify PM2.5 emissions at the time of issuance.

***** Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". Additionally, US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

(1) Limited PTE based upon annual VOC input limit to comply with 326 8-1-6 BACT.

(2) PTE after the integral powder paint recovery filter system

(A) FESOP Status

This existing source is not a Title V major stationary source, because the potential to emit criteria pollutants from the entire source is less than the Title V major source threshold levels. In addition, this existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the potential to emit total combined HAPs is less than twenty-five (25) tons per year, and the potential to emit any single HAP is limited to less than ten (10) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act and is subject to the provisions of 326 IAC 2-6.1 (MSOP). However, this source has elected to retain their existing FESOP status in order to retain maximum operational flexibility and allow room for future growth of their existing stationary automotive condenser, radiator, and cooling module fabrication operation. Therefore, the source is subject to the provisions of 326 IAC 2-8 (FESOP).

(b) PSD Minor Source

This existing source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of each of the criteria pollutants is still less than two hundred fifty (250) tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability

New Source Performance Standards (NSPS)

(a) 40 CFR 60, Subpart Dc - Standards for Small Industrial/Commercial/Institutional Steam Generating Units

The requirements of the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc (326 IAC 12), are not included in this renewal, because the remaining one (1) boiler, rated at one and seven tenths (1.7) MMBtu per hour, has a maximum design heat input capacity of less than the applicability threshold of ten (10) million British thermal units per hour.

(b) 40 CFR 60, Subpart E - Standard for Incinerators

The requirements of the New Source Performance Standard for Incinerators, 40 CFR 60, Subpart E (326 IAC 12), are not included in this renewal, because although this stationary automotive condenser, radiator, and cooling module fabrication operation was constructed after the applicability date of August 17, 1971, the paint residues being combusted do not meet the definition of solid waste as defined by 40 CFR Part 60.51(b).

(c) 40 CFR 60, Subpart Kb - Standards for Volatile Organic Liquid Storage Vessels

The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, 40 CFR 60, Subpart Kb (326 IAC 12), are not included in this renewal for the existing 1,000 gallon storage tanks, because although the tanks were constructed after the rule applicability date of July 23, 1984 and the liquid stored in each tank has a maximum true vapor pressure of greater than fifteen kiloPascals (15.0 kPa), the tanks each have a maximum capacity of less than seventy-five cubic meters (75 m^3) (19,813 gallons). Additionally, the tanks are no longer subject to the recordkeeping requirements of 40 CFR 60.116b (a) and (b) through 326 IAC 12, due to recent revisions to State Rule, 326 IAC 1-1-3 (References to the Code of Federal Regulations).

(d) 40 CFR 60, Subpart MM - Standards for Automobile and Light Duty Truck Surface Coating Operations

The requirements of the New Source Performance Standard for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR 60, Subpart MM (2M) (326 IAC 12), are not included in this renewal, since this source does not manufacture or apply surface coatings to automobile or light-duty truck bodies, as defined in 40 CRF 60.391.

(e) 40 CFR 60, Subpart CCCC (60.2000 through 60.2265), Standards of Performance for Commercial and Industrial Solid Waste Incinerations Units for Which Construction is Commenced After November 30, 1999 or for Which Modification or Reconstruction is Commenced on or After June 1, 2001

The requirements of the Standards of Performance for Commercial and Industrial Solid Waste Incinerations Units for which Construction is Commenced after November 30, 1999 or for which Modification or Reconstruction is Commenced on or After June 1, 2001 40 CFR 60, Subpart CCCC (4C) (326 IAC 12), are not included in this renewal because this source was constructed in 1995, before the rule applicability date of 1999.

(f) Subpart EEEE--Standards of Performance for Other Solid Waste Incineration Units for which Construction is Commenced after December 9, 2004, or for which Modification or Reconstruction is Commenced on or after June 16, 2006

The requirements of the Standards of Performance for Other Solid Waste Incineration Units for which Construction is Commenced after December 9, 2004, or for which Modification or Reconstruction is Commenced on or after June 16, 2006, 40 CFR 60 Subpart EEEE (4E) (326 IAC 12), are not included in this renewal because this source was constructed in 1995, before the rule applicability date of 2004.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

(a) 40 CFR 61, Subpart C - National Emission Standard for Beryllium

The requirements of the National Emission Standards for Beryllium, 40 CFR 61, Subpart C, are not included in this renewal since this source does not process beryllium ore, beryllium, beryllium oxide, beryllium alloys, or beryllium-containing waste.

(b) 40 CFR 63, Subpart T - NESHAPs for Halogenated Solvent Cleaning

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning, 40 CFR 63 Subpart T (326 IAC 20-6), are not included in this renewal since this source does not use a cold solvent cleaning machine or any degreasing solvent that contains any of the halogenated compounds listed in 40 CFR 63.460(a)..

(c) 40 CFR 63 Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors, 40 CFR 63, Subpart EEE (3E) (326 IAC 20-28), are not included in this renewal for the five (5) core conditioning ovens, five (5) flux dry-off ovens, one (1) braze furnace convection pre-heat chamber, two (2) paint dry-off ovens, one (1) boiler, and the one (1) paint hook burn-off oven, because none of the units combust hazardous wastes, as defined in 40 CFR 261.3.

(d) 40 CFR 63 Subpart IIII - NESHAPs for Surface Coating of Automobiles and Light Duty Trucks

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): Surface Coating of Automobiles and Light-Duty Trucks, 40 CFR 63, Subpart IIII (4I) (326 IAC 20-85), are still not included in this renewal, since this source is still not a major source of HAP emissions, and does not topcoat all of the body parts for any single new automobile or new light-duty truck at this facility.

(e) 40 CFR 63 Subpart MMMM - NESHAPs: Surface Coating of Miscellaneous Metal Parts and Products

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM (4M) (326 IAC 20-80), are still not included in this renewal, since this source is still not a major source of HAPs, as defined in 40 CFR 63.2.

(f) 40 CFR 63, Subpart DDDDD - NESHAPs for Industrial, Commercial, and Institutional Boilers, and Process Heaters

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD (5D) (326 IAC 20-95), are not included in this renewal, as follows:

On June 8, 2007, the United States Court of Appeals for the District of Columbia Circuit (in *National Resource Defense Council, Sierra Club, Environmental Integrity Project vs. EPA*, No. 04-1385), vacated 40 CFR 63, Subpart DDDDD in its entirety. Additionally, since State Rule 326 IAC 20-95 incorporated the requirements of the NESHAP 40 CFR 63, Subpart DDDDD by reference, the requirements of 326 IAC 20-95 are no longer effective. However, since NESHAP 40 CFR Part 63, Subpart DDDDD has been vacated, Section 112(j) of the Clean Air Act, major sources of Hazardous Air Pollutants (HAPs), in specified source categories, requires a case-by-case MACT determination when EPA fails to promulgate a scheduled MACT Standard by the regulatory deadline. Valeo Engine Cooling, Inc. is still considered an area source under Section 112 of the Clean Air Act, MACT Standards. Therefore, the source is not subject to a case-by-case MACT determination.

(g) 40 CFR 63, Subpart HHHHHH - NESHAP Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs): Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH (6H) (326 IAC 20), are not included in this renewal, because although this source this source meets the definition of an area source, as defined in 40 CFR § 63.2, and uses spray application methods to coat metal automotive parts, the coatings used do not contain compounds of cadmium (Cd), chromium (Cr), lead (Pb), manganese (Mn), or nickel (Ni). Additionally, this source does not perform paint stripping using Methylene Chloride (MeCl), and does not conduct any autobody refinishing operations.

(h) 40 CFR 63, Subpart XXXXXX - NESHAPs for Nine Metal Fabrication and Finishing Source Categories

The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63, Subpart XXXXXX (6X) (326 IAC 20), are not included in this renewal, because although this existing source manufactures metal automotive condenser, radiator, and cooling modules, it is not primarily engaged in the operations in one of the nine metal fabrication and finishing source categories, as defined in 40 CFR 63.11514 and 63.11522, and does not primarily operate under any of the specifically listed SIC/NAICS Codes listed in the Implementation Tool titled "Nine Metal Fabrication and Finishing Source Categories-SIC/NAICS Code Applicability Charts for Nine Metal Fabrication and Finishing Sources", located on the EPA Technology Transfer Network Air Toxics Web Site (*http://www.epa.gov/ttn/atw/area/arearules.html*).

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability - Entire Source

(a) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))

PSD applicability is discussed under the "Potential to Emit after Issuance "section above.

(b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
This existing source is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the entire source is still 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.

(c) 326 IAC 2-6 (Emission Reporting)
This existing source is not subject to 326 IAC 2-6 (Emission Reporting) because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70); it is not located in Lake, Porter, or LaPorte County, and its potential to emit lead is less than five (5) tons per year. Therefore, pursuant to 326 IAC 2-6-1(b), the source is only subject to additional information requests as provided in 326 IAC 2-6-5.

(d) 326 IAC 2-8-4 (FESOP)
FESOP applicability is discussed under the "Potential to Emit after Issuance" section above.

(e) 326 IAC 5-1 (Opacity Limitations)
This existing source is still subject to the opacity limitations specified in 326 IAC 5-1-2(1). Therefore, except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall continue to meet the following, unless otherwise stated in this permit:

(1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

(g) 326 IAC 6.5 PM Limitations Except Lake County
This source is not subject to 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

(h) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.

(i) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

State Rule Applicability – Individual Facilities

Core Assembly Process

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements)
FESOP #031-21314-00014, issued April 24, 2006, established the following BACT limits:

(1) The VOC input from the evaporating oil usage in the one (1) NOCOLOK radiator, condenser, and charge air cooler manufacturing process shall not exceed eighty-seven (87.0) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(2) The source shall use oils containing no more than two and four tenths (2.4) pounds of VOC per gallon of oil utilized on all fin mills, tube mills, and turbulator mills;

(3) The source shall use a micro-coat application system on all fin mills, tube mills, and turbulator mills to minimize oil usage.

Brazing Operations, including; Braze Line #1, 2, 3, 5, 6, and 8

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the brazing operations, performed in the electric braze ovens, and accompanying cool down stations shall continue to not exceed the pounds per hour limitations listed in the table below:

Emission ID	Process Weight Rate		6-3 Allowable Emission Rate (lbs/hour)	Uncontrolled PM emissions (lb/hour)
	(lbs/hour)	(tons/hour)		
Line #1 Braze Oven & Cool Down Station	2,000	1.00	4.10	0.19
				0.56
Line #2 Braze Oven & Cool Down Station	3,800	1.90	6.30	0.19
				0.56
Line #3 Braze Oven & Cool Down Station	3,800	1.90	6.30	0.19
				0.56
Line #5 Braze Oven & Cool Down Station	2,250	1.12	4.43	0.19
				0.56
Line #6 Braze Oven & Cool Down Station	7,500	3.75	9.93	0.19
				0.56
Line #8 Braze Oven & Cool Down Station	5,718	2.86	8.29	0.29
				0.84

These limitations were calculated as follows:

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

The uncontrolled PM emissions, from the brazing operations performed in each of the electric braze ovens and accompanying cool down stations, are less than the 326 IAC 6-3-2 allowable emissions. Therefore, a control device is not needed for any of these units.

See Appendix A, for the detailed calculations.

Electrostatic Powder Coating Operations, including; paint booth's #1 & 2

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the two (2) electrostatic powder paint booths (identified as paint booths #1 and #2) shall continue to not exceed the pounds per hour limitations listed in the table below:

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Emission ID	Process Weight Rate		6-3 Allowable Emission Rate (lbs/hour)	Uncontrolled PM emissions (lb/hour)
	(lbs/hour)	(tons/hour)		
Paint Booth #1	12	0.006	0.13	6.0
Paint Booth #2	23	0.012	0.21	11.5

The uncontrolled PM emissions from each of the paint booths comprising the powder coating operations are greater than the 326 IAC 6-3-2 allowable emissions. Therefore, the cartridge filter system used in conjunction with the two (2) electrostatic powder paint booths, determined "integral to the process" for the electrostatic powder coating operations, shall be in operation at all times when either or both of the two (2) electrostatic powder paint booths are in operation.

Robotic Arc Welders

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The welding operations, conducted at the source, consume less than six hundred twenty-five (625) pounds of rod or wire per day. Therefore, pursuant to 326 IAC 6-3-1(b)(9), the requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) do not apply to the welding operations at this source, and are not included in this renewal.

Natural Gas Combustion

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

(1) The five (5) core conditioning ovens, five (5) flux dry-off ovens, one (1) braze furnace convection pre-heat chamber, two (2) paint dry-off ovens, and one (1) boiler, each do not meet the definition of an incinerator, as defined by 326 IAC 1-2-34, since they do not burn waste substances. Therefore, 326 IAC 4-2-2 does not apply to any of these units and the requirements are not included in this renewal.

(2) The one (1) paint hook burn-off oven, used to remove dried paint from the coated racks, is still subject to the requirements of 326 IAC 4-2-2 (Incinerators). Therefore, the paint hook burn-off oven shall continue to:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

(e) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators.

If any of the above requirements are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

(b) 326 IAC 6-2 (Particulate Emissions from Indirect Heating Units)

(1) The five (5) core conditioning ovens, five (5) flux dry-off ovens, one (1) braze furnace convection pre-heat chamber, two (2) paint dry-off ovens, and one (1) paint hook burn-off oven, each, do not meet the definition of an indirect heating unit, as defined in

236 IAC 1-2-19. Therefore, 326 IAC 6-2 still does not apply to any of these units and the requirements are not included in this renewal.

(2) The one (1) one and seven tenths (1.7) MMBtu per hour natural gas-fired boiler, installed in 2001, after the rule applicability date of September 21, 1983, must continue to comply with the requirements of 326 IAC 6-2-4, as follows:

The emission limitation for this unit, as provided in 326 IAC 6-2-4, is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:
Pt = Emission rate limit (lbs PM per MMBtu)
Q = Total source heat input capacity rating in million Btu per hour (1.7 MMBtu per hour)

However, according to 326 IAC 6-2-4(a), for Q less than ten (10) MMBtu per hour, Pt shall not exceed six tenths (0.6) lbs PM per MMBtu. Therefore, the one (1) boiler is still limited to six tenths (0.6) lbs of PM per MMBtu heat input.

Based on Appendix A and AP-42, the potential PM emission rate is still one and ninety hundredths (1.90) pounds per million cubic feet of natural gas or nineteen ten-thousandths (0.0019) pounds per million British thermal units. Therefore, the one (1) boiler still complies with this rule.

(c) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
The five (5) core conditioning ovens, five (5) flux dry-off ovens, one (1) braze furnace convection pre-heat chamber, two (2) paint dry-off ovens, one (1) paint hook burn-off oven, and one (1) boiler, each, do not meet the definition of a "manufacturing process", as defined in 326 IAC 6-3-1.5(2). Therefore, each of these units is exempt from 326 IAC 6-3, and the requirements are not included in this renewal.

(d) 326 IAC 7-1.1 (Sulfur Dioxide Emissions Limitations)
The potential SO2 emissions from the five (5) core conditioning ovens, five (5) flux dry-off ovens, one (1) braze furnace convection pre-heat chamber, two (2) paint dry-off ovens, one (1) paint hook burn-off oven, and one (1) boiler, each, are less than twenty-five (25) tons per year and ten (10) pounds per hour respectively. Therefore, 326 IAC 7-1.1-2 does not apply to any of these units and the requirements are not included in this renewal.

Insignificant Brazing equipment, cutting torches, soldering equipment, welding equipment

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

(1) The welding equipment is still not subject to the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) because less than six hundred twenty-five (625) pounds of rod or wire is consumed per day. [326 IAC 6-3-1(b)(9)]

(2) The cutting torches are still not subject to the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) because less than 3,400 inches per hour of stock, having a one (1) inch thickness or less is cut. [326 IAC 6-3-1(b)(10)]

(3) The brazing and soldering equipment are still not subject to the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) because the particulate emissions from these units are less than five hundred and fifty-one thousandths (0.551) pounds per hour each. [326 IAC 6-3-1(b)(14)]

Volatile Liquid Storage Tanks

326 IAC 8 9-1 (Volatile Organic Liquid Storage Vessels)
The source is not located in Lake, Porter, Clark or Floyd counties. Therefore, the requirements of 326 IAC 8-9-1 do not apply.

Compliance Determination, Monitoring, Testing, Record Keeping, and Reporting Requirements

Permits issued under 326 IAC 2-8 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 2-8-4. 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.

Compliance Determination

(a) The NOCOLOK radiator, condenser, and charge air cooler manufacturing process still has applicable compliance determination conditions as specified below:

Emission Unit/Control	Operating Parameters	Method
NOCOLOK radiator, condenser, and charge air cooler manufacturing process	VOC content	Preparing or obtaining the "as supplied" and "as applied" VOC data sheets
		Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4 as required by IDEM.

Confirmation of the VOC content of the evaporating oils used in the NOCOLOK radiator, condenser, and charge air cooler manufacturing process is still required to determine compliance with the provisions of 326 IAC 2-8-4 (FESOP) and 326 IAC 8-1-6 (BACT). *(This is an existing requirement for this source and being carried over to this renewal);*

(b) The integral cartridge filter system used in conjunction with the two (2) electrostatic powder paint booths shall be in operation at all times that either or both of the two (2) electrostatic powder paint booths are in operation. *(This is an existing requirement for this source and being carried over to this renewal); and*

(c) There continue to be no specific compliance determination requirements associated with any of the other emission units at this existing source.

Testing requirements

There continue to be no specific testing requirements associated with any of the emission units at this existing source.

Compliance Monitoring Requirements

There continue to be no specific compliance monitoring requirements for any of the emission units at this existing source.

Recordkeeping and Reporting Requirements

(a) The source shall continue to maintain records of material usage, and VOC content, usage and emissions in order demonstrate compliance with the VOC limits established for the NOCOLOK radiator, condenser, and charge air cooler manufacturing process; *(This is an existing requirement for this source and being carried over to this renewal.* and

(b) The source shall continue to submit a quarterly summary of the VOC input into the NOCOLOK radiator, condenser, and charge air cooler manufacturing process. *(This is an existing requirement for this source and being carried over to this renewal)*

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on June 26, 2010.

The continued operation of this source shall be subject to the conditions of the attached proposed FESOP Renewal, No.: F031-29500-00014. The staff recommends to the Commissioner that this FESOP Renewal be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Ms. Hannah Desrosiers at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5374 or toll free at 1-800-451-6027 extension 4-5374.

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

(c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emissions Calculations
Emission Summary

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Uncontrolled Potential Emissions (tons/year)

Category	Pollutant	Emissions Generating Activity: Core Assembly (Process) (Fin Mills/Tube Mills/Turbulators)	Core Conditioning Ovens (Combustion)	Spray Fluxers (Process)	Flux Dry-Off Ovens (Combustion)	Braze Ovens with Cooling Stations (Process)	Convection Pre Heat Chamber (Braze Line #8) (Combustion)	Electrostatic Powder Paint Booths α (Process)	Paint Dry-Off Ovens (Combustion)	Paint Hook Burn-Off Oven (Process)	Paint Hook Burn-Off Oven (Combustion)	Robotic Welders (MIG) (Process)	Natural Gas-Fired Boiler (Combustion)	**TOTAL**
Criteria Pollutants	PM	0	0.14	1.30	0.05	21.49	0.02	3.36	0.02	6.57	3.88E-03	0.67	0.01	33.64
	PM10	0	0.58	1.30	0.21	21.49	0.07	3.36	0.10	6.57	0.02	0.67	0.06	34.41
	PM2.5	0	0.58	1.30	0.21	21.49	0.07	3.36	0.10	6.57	0.02	0.67	0.06	34.41
	SO2	0	0.05	0	0.02	0	0.01	0	0.01	0	1.22E-03	0	4.38E-03	0.08
	NOx	0	7.60	0	2.79	0	0.86	0	1.29	0	0.20	0	0.73	13.47
	VOC	94.19	0.42	0	0.15	0	0.05	0	0.07	0	0.01	0	0.04	94.93
	CO	0	6.38	0	2.34	0	0.72	0	1.08	0	0.17	0	0.61	11.32
Hazardous Air Pollutants	Benzene	0	1.60E-04	0	5.86E-05	0	1.80E-05	0	2.71E-05	0	4.28E-06	0	1.53E-05	2.83E-04
	Dichlorobenzene	0	9.12E-05	0	3.35E-05	0	1.03E-05	0	1.55E-05	0	2.45E-06	0	8.76E-06	1.62E-04
	Formaldehyde	0	5.70E-03	0	2.09E-03	0	6.44E-04	0	9.66E-04	0	1.53E-04	0	5.48E-04	0.010
	Hexane	0	0.137	0	0.050	0	0.015	0	0.023	0	3.67E-03	0	0.013	0.243
	Toluene	3.77E-02	2.58E-04	0	9.49E-05	0	2.92E-05	0	4.38E-05	0	6.94E-06	0	2.48E-05	3.81E-02
	Cadmium	0	8.36E-05	0	3.07E-05	0	9.45E-06	0	1.42E-05	0	2.24E-06	0	8.03E-06	1.48E-04
	Chromium	0	1.06E-04	0	3.91E-05	0	1.20E-05	0	1.80E-05	0	2.86E-06	0.015	1.02E-05	0.015
	Lead	0	3.80E-05	0	1.40E-05	0	4.29E-06	0	6.44E-06	0	1.02E-06	0	3.65E-06	6.74E-05
	Manganese	0	2.89E-05	0	1.06E-05	0	3.26E-06	0	4.90E-06	0	7.75E-07	9.55E-03	2.77E-06	0.010
	Nickel	0	1.60E-04	0	5.86E-05	0	1.80E-05	0	2.71E-05	0	4.28E-06	0.034	1.53E-05	0.035
	Totals	**3.77E-02**	**0.143**	**0**	**0.053**	**0**	**0.016**	**0**	**0.024**	**0**	**0.004**	**0.059**	**0.014**	**0.351**
														0.243

Total emissions based on rated capacity at 8,760 hours/year.

α The cartridge filter system serving the two (2) Powder Paint Booths is considered "integral" to the powder coating operations. Therefore, the permitting level is is determined after consideration of the controls.

Limited/Controlled Potential Emissions (tons/year)														
	Emissions Generating Activity													
Category	Pollutant	Core Assembly (Process) (Fin Mills/Tube Mills/Turbulators)	Core Conditioning Ovens	Spray Fluxers (Process)	Flux Dry-Off Ovens	Braze Ovens with Cooling Stations (Process)	Convection Pre Heat Chamber (Braze Line #8)	Electrostatic Powder Paint Booths [α] (Process)	Paint Dry-Off Ovens	Paint Hook Burn-Off Oven (Process)	Paint Hook Burn-Off Oven	Robotic Welders (MIG)	Natural Gas-Fired Boiler	**TOTAL**
Criteria Pollutants	PM	0	0.14	1.30	0.05	21.49	0.02	3.36	0.02	6.57	3.88E-03	0.67	0.01	33.64
	PM10	0	0.58	1.30	0.21	21.49	0.07	3.36	0.10	6.57	0.02	0.67	0.06	34.41
	PM2.5	0	0.58	1.30	0.21	21.49	0.07	3.36	0.10	6.57	0.02	0.67	0.06	34.41
	SO2	0	0.05	0	0.02	0	0.01	0	0.01	0	1.22E-03	0	4.38E-03	0.08
	NOx	0	7.60	0	2.79	0	0.86	0	1.29	0	0.20	0	0.73	13.47
	VOC	< 87.0 [(1)]					0.05	0	0.07	0	0.01	0	0.04	87.17
	CO	0	6.38	0	2.34	0	0.72	0	1.08	0	0.17	0	0.61	11.32
Hazardous Air Pollutants	Benzene	0	1.60E-04	0	5.86E-05	0	1.80E-05	0	2.71E-05	0	4.28E-06	0	1.53E-05	2.83E-04
	Dichlorobenzene	0	9.12E-05	0	3.35E-05	0	1.03E-05	0	1.55E-05	0	2.45E-06	0	8.76E-06	1.62E-04
	Formaldehyde	0	5.70E-03	0	2.09E-03	0	6.44E-04	0	9.66E-04	0	1.53E-04	0	5.48E-04	1.01E-02
	Hexane	0	0.137	0	0.050	0	0.015	0	0.023	0	3.67E-03	0	0.013	0.24
	Toluene	3.77E-02	2.58E-04	0	9.49E-05	0	2.92E-05	0	4.38E-05	0	6.94E-06	0	2.48E-05	3.81E-02
	Cadmium	0	8.36E-05	0	3.07E-05	0	9.45E-06	0	1.42E-05	0	2.24E-06	0	8.03E-06	1.48E-04
	Chromium	0	1.06E-04	0	3.91E-05	0	1.20E-05	0	1.80E-05	0	2.86E-06	0.015	1.02E-05	1.48E-02
	Lead	0	3.80E-05	0	1.40E-05	0	4.29E-06	0	6.44E-06	0	1.02E-06	0	3.65E-06	6.74E-05
	Manganese	0	2.89E-05	0	1.06E-05	0	3.26E-06	0	4.90E-06	0	7.75E-07	9.55E-03	2.77E-06	9.60E-03
	Nickel	0	1.60E-04	0	5.86E-05	0	1.80E-05	0	2.71E-05	0	4.28E-06	0.034	1.53E-05	3.48E-02
	Totals	**3.77E-02**	**0.143**	**0**	**0.053**	**0**	**0.016**	**0**	**0.024**	**0**	**0.004**	**0.059**	**0.014**	**0.351**
														0.243

Total emissions based on rated capacity at 8,760 hours/year.

(1) Limited PTE based upon annual VOC input limit to comply with 326 8-1-6 BACT.

Appendix A: Emission Calculations
Process Emissions from the Core Assembly

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Volatile Organic Compound (VOC)Emissions

Emission Unit	# of mills in unit	Density (lbs/gal)	Max. Usage Rate per mill (gal/hour)	PTE of VOC per mill (lbs/hour)	PTE of VOC per unit (lbs/hour)	PTE of VOC per unit (tons/year)
Fin Mills	29	2.40	0.20	0.48	13.92	60.97
Tube Mills	2	2.40	0.50	1.20	2.40	10.51
Fin Mill	1	2.40	0.50	1.20	1.20	5.26
Turbulator Mill	1	2.40	0.20	0.48	0.48	2.10
Mitsubishi Fin Mills	2	2.40	0.20	0.48	0.96	4.20
Turbulator Mills	2	2.40	0.53	1.27	2.54	11.14
					TOTAL	**94.19**

METHODOLOGY

PTE of VOC per mill (lbs/hour) = Density (lbs/gal) * Max. usage rate per mill (gal/hour)

PTE of VOC per unit (lbs/hour) = [# of mills in unit * Density (lbs/gal) * Max. usage rate per mill (gal/hour)]

PTE of VOC per unit (tons/year) = Density (lbs/gal) * Max. usage rate (gal/hour) * 8760 hours/year * 1 ton/2000 lbs

Hazardous Air Pollutant (HAP) Emissions

Emission Unit	# of mills in unit	Density (lbs/gal)	Max. Usage Rate per mill (gal/hour)	Weight % Toluene	Toluene Emissions per unit (ton/yr)
Fin Mills	29	2.40	0.20	0.04%	2.44E-02
Tube Mills	2	2.40	0.50	0.04%	4.20E-03
Fin Mill	1	2.40	0.50	0.04%	2.10E-03
Turbulator Mill	1	2.40	0.20	0.04%	8.41E-04
Mitsubishi Fin Mills	2	2.40	0.20	0.04%	1.68E-03
Turbulator Mills	2	2.40	0.53	0.04%	4.46E-03
				TOTAL	**3.77E-02**

METHODOLOGY

HAPS emission rate per unit (tons/yr) = [# of mills in unit * Density (lb/gal) * Max. usage rate (gal/hour) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs]

Appendix A: Emission Calculations
Natural Gas Combustion Only (MMBtu/hour < 100)
Six (6) Core Conditioning Ovens

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Heat Input Capacity (MMBtu/hour)	
Braze Line #1	3.2
Braze Line #3	4.0
Braze Line #5	2.5
Braze Line #6	4.0
Braze Line #8	4.0
Total	**17.70**

Potential Throughput (MMscf/year)
152.01

Pollutant

	* PM	* PM10	PM2.5	SO2	** NOx	VOC	CO
Emission Factor (lb/MMscf)	1.9	7.6	7.6	0.6	100	5.5	84.0
Potential To Emit (tons/year)	0.14	0.58	0.58	0.05	7.60	0.42	6.38

*PM emission factor is filterable PM only. PM10, and PM2.5, emission factors include filterable and condensable fractions combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).
All Emission factors are based on normal firing.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMscf)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	1.60E-04	9.12E-05	5.70E-03	1.37E-01	2.58E-04

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMscf)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	3.80E-05	8.36E-05	1.06E-04	2.89E-05	1.60E-04

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

METHODOLOGY

Potential throughput (MMscf/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMscf/1020 MMBtu
PTE (tons/year) = Potential throughput (MMscf/year) * Emission factor (lb/MMscf) * 1 ton/2000 lbs

Appendix A: Emission Calculations
Process Emissions from the Spray Fluxers

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Emission Unit	Emission Rate of PM/PM10/PM2.5 per unit (lbs/hour)	No. of Units	PTE of PM/PM10/PM2.5 (tons/year)
Braze Lines # 1, 2, 3, 5 & 6 Spray Fluxers*	0.037	5	0.81
Braze Line #8 Spray Fluxer**	0.296	1	1.30

METHODOLOGY

PTE of PM/PM10 (tons/year) = Emission rate (lbs/hour) * No. of Units * 8760 hours/year * 1 ton/2000 lbs

NOTES

* The Emission rate for Braze Lines # 1, 2, 3, 5 & 6 spray fluxers comes from a stack test conducted at the source in 1995 on two fluxers.

** The emission rate for the Braze Line #8 spray fluxer (as determined on Page 4 of 5; TSD, Appendix A for revision # F031-28077-00014) = Emission rate for recently removed Braze Line #7 * Lb/hr throughput Line #8 / Lb/hr throughput of recently removed Braze Line #7.

Assume all PM10 and PM2.5 emissions are equal to PM emissions, each.

Appendix A: Emission Calculations
Natural Gas Combustion Only (MMBtu/hour < 100)
Six (6) Flux Dry Off Ovens

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Heat Input Capacity (MMBtu/hour)	
Braze Line #1	1.20
Braze Line #3	1.50
Braze Line #5	1.50
Braze Line #6	1.50
Braze Line #8	0.80
Total	**6.50**

Potential Throughput (MMscf/year)
55.82

Pollutant

	* PM	* PM10	PM2.5	SO2	** NOx	VOC	CO
Emission Factor (lb/MMscf)	1.9	7.6	7.6	0.6	100	5.5	84.0
Potential To Emit (tons/year)	0.05	0.21	0.21	0.02	2.79	0.15	2.34

*PM emission factor is filterable PM only. PM10, and PM2.5, emission factors include filterable and condensable fractions combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).
All Emission factors are based on normal firing.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMscf)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	5.86E-05	3.35E-05	2.09E-03	5.02E-02	9.49E-05

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMscf)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	1.40E-05	3.07E-05	3.91E-05	1.06E-05	5.86E-05

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

METHODOLOGY

Potential throughput (MMscf/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMscf/1020 MMBtu
PTE (tons/year) = Potential throughput (MMscf/year) * Emission factor (lb/MMscf) * 1 ton/2000 lbs

Appendix A: Emission Calculations
Process Emissions from the Braze Ovens and Cool Down Stations

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Emission Unit	Emission Rate of PM/PM10/PM2.5 per unit (lbs/hour)	No. of Units	Total PTE of PM/PM10/PM2.5 (tons/year)	PTE of PM/PM10/PM2.5 (lbs/hour) for each oven with cooling station
Ovens for Braze Lines # 1, 2, 3, 5, & 6	0.194	5	4.25	0.19
Cool Down Stations for Braze Lines # 1, 2, 3, 5, & 6	0.561	5	12.3	0.56
Oven for Braze Line #8	0.291	1	1.27	0.29
Cool Down Station for Braze Line #8	0.842	1	3.69	0.84
		Total	**21.5**	

The ovens for Braze Lines # 1, 2, 3, 5, 6 & 8 are powered by electricity; therefore, no combustion emissions have been calculated. The braze furnace convection pre-heat chamber for Braze Line #8 is natural gas-fired; therefore, combustion emissions are addressed on the following page of this appendix.

* The emission rates for Braze Lines #1, 2, 3, 5, & 6 Ovens and Cool Down Stations come from a stack test conducted in 1995 at the source.

** The emission rate for the Braze Line #8 Oven and Cool Down Station (as determined on Page 5 of 5; TSD, Appendix A for

*** Assume all PM10 and PM2.5 emissions are equal to PM emissions, each.

METHODOLOGY

PTE of PM/PM10 (tons/year) = Emission rate (lbs/hour) * No. of units * 8760 hours/year * 1 ton/2000 lbs

Appendix A: Emission Calculations
Natural Gas Combustion Only (MMBtu/hour < 100)
One (1) Convection Pre-Heat Chamber for Braze Line #8

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Heat Input Capacity (MMBtu/hour)	Potential Throughput (MMscf/year)
2.00	17.18

Pollutant

	* PM	* PM10	PM2.5	SO2	** NOx	VOC	CO
Emission Factor (lb/MMscf)	1.9	7.6	7.6	0.6	100	5.5	84.0
Potential To Emit (tons/year)	1.63E-02	6.53E-02	0.07	5.15E-03	8.59E-01	4.72E-02	7.21E-01

*PM emission factor is filterable PM only. PM10, and PM2.5, emission factors include filterable and condensable fractions combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).
All Emission factors are based on normal firing.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMscf)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	1.80E-05	1.03E-05	6.44E-04	1.55E-02	2.92E-05

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMscf)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	4.29E-06	9.45E-06	1.20E-05	3.26E-06	1.80E-05

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

METHODOLOGY
Potential throughput (MMscf/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMscf/1020 MMBtu
PTE (tons/year) = Potential throughput (MMscf/year) * Emission factor (lb/MMscf) * 1 ton/2000 lbs

Appendix A: Emission Calculations
Electrostatic Powder Paint Booths

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Emission Unit	Max. Usage Rate of Powder Paint (lbs/hour)	Transfer Efficiency (%)	PTE of PM/PM10/PM2.5 Uncontrolled (lbs/hr)	PTE of PM/PM10/PM2.5 Uncontrolled (tons/year)	Control Efficiency (%)	PTE of PM/PM10/PM2.5 Controlled (tons/year)
Paint Booth 1	12.0	50%	6.00	26.28	99%	1.15
Paint Booth 2	23.0	50%	11.50	50.37	99%	2.21
				76.7		**3.36**

Based on MSDS submitted by the source, there are no VOC or HAPs emissions contained in the powder paint.

All of the powder paint is captured via a filter system and recycled for reuse.

The cartridge filter system serving the two (2) Powder Paint Booths is considered "integral" to the powder coating operation.

It is assume all of the powder paint applied is equivalent to PM emissions.

It is assume all PM10 and PM2.5 emissions, each, are equal to PM emissions.

METHODOLOGY

PTE of PM/PM10 Uncontrolled (lbs/hr) = Max. usage rate (lbs/hour) * (1 - Transfer efficiency %)

PTE of PM/PM10 Uncontrolled (tons/year) = Max. usage rate (lbs/hour) * (1 - Transfer efficiency %) * 8760 hours/year * 1 ton/2000 lbs

PTE of PM/PM10 Controlled (prior to the 2nd filter system) (tons/year) = Max. usage rate (lbs/hour) * (1 - Transfer efficiency %) * (1- Control Efficiency (%)) * 8760

Appendix A: Emission Calculations
Natural Gas Combustion Only (MMBtu/hour < 100)
Two (2) Paint Dry-Off Ovens

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Heat Input Capacity (MMBtu/hour)	Potential Throughput (MMscf/year)
3.00	25.76

(2 @ 1.5 MMBtu/hr, each)

Pollutant

	* PM	* PM10	PM2.5	SO2	** NOx	VOC	CO
Emission Factor (lb/MMscf)	1.9	7.6	7.6	0.6	100	5.5	84.0
Potential To Emit (tons/year)	0.02	0.10	0.10	7.73E-03	1.29	0.07	1.08

*PM emission factor is filterable PM only. PM10, and PM2.5, emission factors include filterable and condensable fractions combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).
All Emission factors are based on normal firing.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMscf)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	2.71E-05	1.55E-05	9.66E-04	2.32E-02	4.38E-05

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMscf)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	6.44E-06	1.42E-05	1.80E-05	4.90E-06	2.71E-05

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

METHODOLOGY

Potential throughput (MMscf/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMscf/1020 MMBtu
PTE (tons/year) = Potential throughput (MMscf/year) * Emission factor (lb/MMscf) * 1 ton/2000 lbs

Appendix A: Emission Calculations
Process Emissions from the Paint Hook Burn-Off Oven

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Emission Unit	Weight of dirty hook (lbs)	Weight of clean hook (lbs)	No of Carriers/ batch	No of Hooks / batch	Actual No of Batches/ day	Weight burned-off (lbs/ day)	PTE of PM/PM10/PM2.5 (lbs/hour)	PTE of PM/PM10/PM2.5 (tons/year)
Paint Hook Burn-Off Oven	1.405	1.345	NA	200	1.00	12.0	1.50	**6.57**

METHODOLOGY

** Assume all PM10 and PM2.5 emissions, each, are equal to PM emissions.

Weight of PM Burned-off (lbs/day) = [Weight of dirty hooks (lbs) - Weight of clean hooks (lbs)] * No. of Hooks/ Batch * Actual no. of batches/day

PTE of PM/PM10 (lbs/hour) = Weight of PM Burned-Off (lbs/day) * 1 day/Hours of operation

PTE of PM/PM10 (tons/year) = Weight of PM Burned-Off (lbs/day) * 1 day/Hours of operation * 8760 hours/year * 1 ton/2000 lbs

Appendix A: Emission Calculations
Natural Gas Combustion Only (MMBtu/hour < 100)
One (1) Paint Hook Burn-Off Oven

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Heat Input Capacity (MMBtu/hour)	Potential Throughput (MMscf/year)
0.475	4.08

Pollutant

	* PM	* PM10	PM2.5	SO2	** NOx	VOC	CO
Emission Factor (lb/MMscf)	1.9	7.6	7.6	0.6	100	5.5	84.0
Potential To Emit (tons/year)	3.88E-03	0.016	0.016	1.22E-03	0.20	0.011	0.17

*PM emission factor is filterable PM only. PM10, and PM2.5, emission factors include filterable and condensable fractions combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).
All Emission factors are based on normal firing.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMscf)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	4.28E-06	2.45E-06	1.53E-04	3.67E-03	6.94E-06

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMscf)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	1.02E-06	2.24E-06	2.86E-06	7.75E-07	4.28E-06

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

METHODOLOGY

Potential throughput (MMscf/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMscf/1020 MMBtu
PTE (tons/year) = Potential throughput (MMscf/year) * Emission factor (lb/MMscf) * 1 ton/2000 lbs

Appendix A: Emission Calculations
Three (3) Robotic Welders

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Process	Number of Stations	Max. Electrode Consumption (lbs/hour)	* Emission Factors (lb pollutant/lb electrode)				Potential To Emit (tons/year)			
			PM/PM10/PM2.5	Mn	Ni	Cr	PM/PM10/PM2.5	Mn	Ni	Cr
Metal Inert Gas (MIG) Welding	3	2.1	2.41E-02	3.46E-04	1.25E-03	5.28E-04	6.65E-01	9.55E-03	3.45E-02	1.46E-02

* Worst case emission factors were used to estimate emissions from gas metal arc welding [AP-42, Chapter 12.19, SCC 3-09-052, (01/95)].
** Assume all PM10 and PM2.5 emissions are equal to PM emissions, each.

METHODOLOGY
PTE from Welding (tons/year) = Number of Stations * Maximum Electrode Consumption (lbs/hour) * Emission Factor (lbs Pollutant/lbs Electrode) * 8760 hours/year * 1 ton/2000 lbs

Maximum electrode consumption per day

Process	Number of Stations	Max. Electrode Consumption (lbs/hr)	Combined Max. Electrode Consumption (lbs/hr)	Combined Max. Electrode Consumption (lbs/day)
Metal Inert Gas (MIG) Welding	3	2.1	6.30	**151.20**

Methodology
Combined maximum electrode consumption (lbs/hr) = Number of Stations * Maximum electrode consumption per station (lb/hr)
Combined maximum electrode consumption (lbs/day) = Combined maximum electrode consumption (lbs/hr) * 24 hrs/day

Appendix A: Emission Calculations
Natural Gas Combustion Only (MMBtu/hour < 100)
One (1) Boiler

Company Name: Valeo Engine Cooling, Inc.
Address, City, Zip: 1100 East Barachel Lane, Greensburg, IN 47240
Permit No.: 031-29500-00014
Reviewer: Hannah L. Desrosiers
Date Received: 7/26/2010

Heat Input Capacity (MMBtu/hour)	Potential Throughput (MMscf/year)
1.70	14.60

Pollutant

	* PM	* PM10	PM2.5	SO2	** NOx	VOC	CO
Emission Factor (lb/MMscf)	1.9	7.6	7.6	0.6	100	5.5	84.0
Potential To Emit (tons/year)	0.01	0.06	0.06	4.38E-03	0.73	0.04	0.61

*PM emission factor is filterable PM only. PM10, and PM2.5, emission factors include filterable and condensable fractions combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).
All Emission factors are based on normal firing.

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor (lb/MMscf)	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential To Emit (tons/year)	1.53E-05	8.76E-06	5.48E-04	1.31E-02	2.48E-05

HAPs - Metals

	Lead	Cadmuim	Chromium	Manganese	Nickel
Emission Factor (lb/MMscf)	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential To Emit (tons/year)	3.65E-06	8.03E-06	1.02E-05	2.77E-06	1.53E-05

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

METHODOLOGY

Potential throughput (MMscf/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMscf/1020 MMBtu
PTE (tons/year) = Potential throughput (MMscf/year) * Emission factor (lb/MMscf) * 1 ton/2000 lbs

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

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

TO: Tracy McIntosh
Valeo Engine Cooling, Inc.
1100 E Barachel Ln
Greensburg, IN 47240

DATE: March 10, 2011

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

SUBJECT: Final Decision
Federally Enforceable State Operating Permit
031-29500-00014

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
John Siracusa – Plant Director
Debbie Tolliver – ARCADIS U.S., Inc.
OAQ Permits Branch Interested Parties List

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

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

March 10, 2011

TO: Greensburg Decatur County Public Library

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

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

Applicant Name: **Valeo Engine Cooling, Inc.**
Permit Number: **031-29500-00014**

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

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

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	GHOTOPP 3/10/2011 Valeo Engine Cooling, Inc 031-29500-00014 Final		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Indiana Department of Environmental Management
Office of Air Quality – Permits Branch
100 N. Senate
Indianapolis, IN 46204

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1		Tracy McIntosh Valeo Engine Cooling, Inc 1100 E Barachel Ln Greensburg IN 47240 (Source CAATS) via confirmed delivery									
2		John Siracusa Plant Dir Valeo Engine Cooling, Inc 1100 E Barachel Ln Greensburg IN 47240 *(RO CAATS)*									
3		Greensburg Decatur Co Public Library 1110 East Main Greensburg IN 47240 *(Library)*									
4		Decatur County Commissioners 150 Courthouse Square Greensburg IN 47240 *(Local Official)*									
5		Greensburg City Council & Mayors office 314 W Washington Street Greensburg IN 47240 *(Local Official)*									
6		Decatur County Health Department 801 N. Lincoln St Greensburg IN 47240-1397 *(Health Department)*									
7		Mr. Leonard Rohls 8504 North County Road 300 West Batesville IN 47006 *(Affected Party)*									
8		Melanie Brassell 606 Nelsons Parkway, P.O. Box 465 Wakarusa IN 46573 *(Affected Party)*									
9		Debbie Tolliver ARCADIS U.S., Inc. 251 East Ohio Street, Suite 800 Indianapolis IN 46204 *(Consultant)*									
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