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 17, 2009

RE: Ingersoll Rand Von Duprin / 097 - 25775 - 00050

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

Ingersoll Rand Von Duprin
2720 Tobey Drive
Indianapolis, Indiana 46219

(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.: F097-25775-00050	
Issued by: Matthew Stuckey, Branch Chief Permits Branch Office of Air Quality	Issuance Date: March 17, 2009 Expiration Date: March 17, 2019

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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 source that performs surface coating of miscellaneous metal parts with powders, decorative chromium electroplating and metal trimming and stamping of architectural hardware products.

Source Address:	2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address:	2720 Tobey Drive, Indianapolis, Indiana 46219
General Source Phone Number:	(317) 613-8993
SIC Code:	342, 3446, 3469, 3471
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Nonattainment NSR 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) F-Systems custom built solid lubricant application booth, identified as Emission Unit ID SL-01, constructed in 1998, for surface coating of miscellaneous metal parts with maximum coating capacity of 4.69 gallons of coating per hour, equipped with dry filters for particulate emissions control and exhausting through Stack ID SV25. This booth has one (1) associated natural gas fired curing oven which is listed under the Insignificant Activities below.

(b) One (1) Single Hoist Line decorative chromium electroplating line, identified as ID SHL-5, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as West Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, West Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 5. West Chrome Tank is an affected source subject to the provisions of 40 CFR 63, Subpart N.

(c) One (1) Dual Hoist Line decorative chromium electroplating line, identified as ID DHL-13, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as East Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, East Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 16. East Chrome Tank is an affected source subject to the provisions of 40 CFR 63, Subpart N.

(d) One (1) polishing station, identified as PU-6B, consisting of twenty six (26) Hand Polisher Work Station Units for polishing miscellaneous metal parts and two (2) Hand Polisher Work Station Units for correction of robotic polishing defects at a maximum capacity of 240 units per eight hour shift per work station unit, with each unit weighing approximately 0.524 pounds, and one (1) Robotic Polishing Unit for polishing miscellaneous metal parts at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.309 pounds, and using a cartridge dust collector for particulate control identified as 6B and exhausting inside the building. This polishing station was installed in 1986. The two (2) Hand Polisher Work Station Units for correction of robotic polishing defects were installed in 2002.

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) Natural gas fired combustion sources with heat input equal to or less than 10 million British thermal units (Btu) per hour consisting of:

(1) Orr and Sembower natural gas fired boiler, identified as ID CU-1, with a maximum heat input rate of 5.0 million Btu per hour (constructed in 1986). [326 IAC 6-2-4]
(2) Dunham Bush natural gas fired boiler, identified as ID CU-2, with a maximum heat input rate of 5.0 million Btu per hour (constructed in 1986). [326 IAC 6-2-4]
(3) One (1) natural gas fired cogeneration unit (generator/water heater), with a maximum heat input rate of 0.95 million Btu per hour (constructed in 2003).
(4) One natural gas fired 75 kW microturbine, with a maximum heat input rate of 0.95 million Btu per hour (constructed in 2003).
(5) One (1) natural gas fired cure oven identified as ID CU-7 with a maximum heat input rate of 0.8 million Btu per hour.
(6) One (1) natural gas fired curing oven associated with Emission Unit ID SL-01, with a maximum heat input rate of 2.0 million Btu per hour (constructed in 1998).

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2]

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

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

(e) Cleaners and solvents usage, of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months and characterized as follows:
(1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100F); or
(2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20 degrees C (68F).

(f) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(g) Closed loop heating and cooling system.

(h) Infrared cure equipment.

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

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

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

(l) 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 form those activities would not be associated with any production process.

(m) 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.

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

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

(p) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]

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

(r) Other categories with emissions below insignificant thresholds (i.e. less than 5 pounds per hour particulates and NOx, less than 25 pounds per day CO, or less than 3 pounds per hour VOC).

(1) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-6A, using a cartridge dust collector for particulate control identified as 6A and exhausting inside the building. This unit consists of:

(A) Six (6) Robotic Polishing units with a maximum capacity of each Polishing Unit of 240 units per eight hour shift per polishing unit, with each unit weighing approximately 0.524 pounds. Four (4) of the polishing units were installed in 1986, one (1) unit, at an exemption level, was installed in 1998, and one (1) unit was installed in 2004. [326 IAC 6-3-2]

(B) One (1) Robotic Polishing Unit identified as ID PU-3 for polishing miscellaneous metal parts at a maximum capacity of 200 units per eight hour shift with each unit weighing approximately 1.749 pounds. Particulate emissions from this unit are controlled by the cartridge dust collector identified above as 6A. [326 IAC 6-3-2]

(2) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-8. This unit consists of:

(A) Six (6) Robotic Polishing units with a maximum capacity of each Polishing Unit of 240 units per eight hour shift per polishing unit, with each unit weighing approximately 0.524 pounds, using a cartridge dust collector for particulate control identified as 8 and exhausting inside the building. Four (4) of the polishing units were installed in 1986 and two (2) remaining units, at an exemption level, were installed in 1998. [326 IAC 6-3-2]

(B) One (1) Robotic Polishing Unit with a maximum capacity of 220 units per eight hour shift with each unit weighing approximately 0.95 pounds, using a cartridge dust collector for particulate control identified as 8 and exhausting inside the building. This unit was installed in 2002. [326 IAC 6-3-2]

(3) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-1, using a cartridge dust collector for particulate control, identified as 1A and exhausting inside the building. This unit consists of:

Two (2) Hand Polisher Work Station Units with one (1) hand lathe for the correction of robotic polishing defects at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.309 pounds. These units will be installed in 2004. [326 IAC 6-3-2]

(4) One (1) Buffing Unit identified as ID PU-4 for polishing miscellaneous metal parts at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.524 pounds. Particulate emissions from this unit are controlled by a cartridge dust collector identified as 4 and exhaust inside the building. [326 IAC 6-3-2]

(5) One (1) 500 gallon liquid caustic compound removal tank and one (1) 500 gallon de-ionized water rinse tank to facilitate the removal of powder coat paint (non VOC).

(6) Two (2) paint rack burn off ovens for stripping paint racks. Oven one is identified as CU-13 and oven two is identified as CU-14. The process weight rate of coatings to be stripped off racks in each burn off oven, CU-13 and CU-14, is less than one hundred (100) pounds per hour. Each paint rack burn off oven is natural gas fired with a maximum heat input capacity of 0.95 million Btu per hour for combined total heat input capacity of 1.9 million Btu per hour. Oven CU-13 and Oven CU-14 exhaust to Stack/Vent SV-15. Installed in 2005. [326 IAC 4-2] [326 IAC 9]

(7) Powder coating operation for coating miscellaneous metal parts, consisting of three (3) spray booths, identified as PB-1, PB-2 and PB-3, with a total maximum surface coating capacity of ten (10) pounds of powder coating per hour. Particulate emissions from this operation are controlled by a dust collector exhausting inside the building. This operation is also equipped with one (1) natural gas fired dry off oven identified as ID CU-10 with a maximum heat input rate of 1.0 million Btu per hour and exhausting through stack ID 22; and two (2) powder coating natural gas fired cure ovens identified as ID CU-11 and CU-12 each with a maximum heat input rate of 2.5 million Btu per hour and each exhausting through stacks ID 23 and 24, respectively. [326 IAC 6-3-2]

(8) One (1) electrocoating operation, approved for construction in 2007, identified as ID EC-01, with a maximum coating rate of 256 units/hr, using no controls and exhausting to stack ID EC-01.

(s) Any emissions unit, not regulated by a NESHAP, emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP or emitting greater than 1 pound per day but less than 12.5 pounds per day or 2.5 tons per year of a combination of HAPs.

(1) One (1) laser cutting operation for cutting standard steel, carbon steel, and stainless steel cutting a maximum of 50 inches per minute of metal.

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, F097-25775-00050, 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. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

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

(c) 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 April 15 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 the certification 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) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.

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

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

B.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, 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 Compliance Section)
Facsimile Number: 317-233-6865

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

Indiana Department of Environmental Management
Compliance 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 the certification 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.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

(a) All terms and conditions of permits established prior to F097-25775-00050 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 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.16 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 the certification 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.17 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 the certification 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
Permits 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 in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 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
Permits Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application shall be certified 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.19 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
Permits 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.20 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.21 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.22 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
Permits Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification 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.23 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 within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) 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.24 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 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.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 or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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 Stack Height [326 IAC 1-7]

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by 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.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

Indiana Department of Environmental Management
Compliance 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 certification 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 certification 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.10 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.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

Indiana Department of Environmental Management
Compliance 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 the certification 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.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.13 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.14 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.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

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

(1) initial inspection and evaluation;

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

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][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 take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

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

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

The response action documents submitted pursuant to this condition do require the certification by 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.17 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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

C.18 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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Indiana Department of Environmental Management
Compliance 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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) 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.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) F-Systems custom built solid lubricant application booth, identified as Emission Unit ID SL-01, constructed in 1998, for surface coating of miscellaneous metal parts with maximum coating capacity of 4.69 gallons of coating per hour, equipped with dry filters for particulate emissions control and exhausting through Stack ID SV25. There is also one (1) associated natural gas fired curing oven which is listed under the Insignificant Activities below.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Hazardous Air Pollutants (HAPs) [326 IAC 2-8]

Pursuant to 326 IAC 2-8-4(1), the Permittee shall comply with the following:

(a) The total usage of any single hazardous air pollutant (HAP) in the F-Systems custom built solid lubricant application booth (SL-01), including HAP usage for clean-up, shall not exceed 9.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total usage of combined HAPs in the F-Systems custom built solid lubricant application booth (SL-01), including combined HAP usage for clean-up, shall not exceed 23.7 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above limits, combined with the potential to emit of single and combined HAPs from the other emission units at this source, shall limit the source wide potential to emit of any single HAP to less than ten (10) tons per twelve (12) consecutive month period and the source wide potential to emit of combined total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7 (Part 70) are not applicable to the source.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

The actual usage of VOC in the F-Systems custom built solid lubricant application booth (ID SL-01), including VOC usage for clean-up, shall not exceed fifteen (15) pounds per day with compliance determined at the end of each day. Therefore, 326 IAC 8-2-9 is not applicable to the F-Systems custom built solid lubricant application booth (ID SL-01).

D.1.3 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the F-Systems custom built solid lubricant application booth (SL-01), shall be controlled by a dry filter, and the Permittee shall operate the dry filters in accordance with manufacturer's specifications.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the coating booth SL-01 and its control devices.

Compliance Determination Requirements

D.1.5 Hazardous Air Pollutants (HAPs), Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4], Particulate [326 IAC 6.5-1]

(a) Compliance with the HAP and VOC usage limitations contained in Conditions D.1.1 and D.1.2 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" HAP and VOC data sheets. IDEM, OAQ, and OES reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

(b) In order to render 326 IAC 6.5-1 not applicable, the F-Systems custom built solid lubricant application booth (ID SL-01) Dry Filters shall operate at all times when the application booth is in operation.

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

D.1.6 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stack (SV25) while the booth is in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.7 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly unless otherwise noted, and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC and HAP emission limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

(1) The VOC and HAP content of each coating material and solvent used.

(2) The amount of coating material and solvent less water used on a daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.

(3) The cleanup solvent usage for each day;

(4) The total VOC usage for each day;

(5) The total HAP usage for each month; and

(6) The weight of VOCs and HAPs emitted for each compliance period.

(b) To document compliance with Condition D.1.6, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.

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

D.1.8 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) Single Hoist Line decorative chromium electroplating line, identified as ID SHL-5, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as West Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, West Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 5. West Chrome Tank is an affected source subject to the provisions of 40 CFR 63, Subpart N.

(d) One (1) Dual Hoist Line decorative chromium electroplating line, identified as ID DHL-13, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as East Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, East Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 16. East Chrome Tank is an affected source subject to the provisions of 40 CFR 63, Subpart N.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the West Chrome Tank and the East Chrome Tank and the chemical wetting agent.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

D.2.2 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.340, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the chromium electroplating lines as specified in Table 1 of 40 CFR 63, Subpart N in accordance with the schedule in 40 CFR 63 Subpart N.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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

D.2.3 National Emission Standards for Hazardous Air Pollutants for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks Requirements [40 CFR Part 63, Subpart N] [326 IAC 20-8]

The Permittee shall comply with the following provisions of 40 CFR 63, Subpart N (included as Attachment A), which are incorporated by reference as 326 IAC 20-8:

(1) 40 CFR 63.340.
(2) 40 CFR 63.341
(3) 40 CFR 63.342(a)
(4) 40 CFR 63.342(b)(1)
(5) 40 CFR 63.342(d)
(6) 40 CFR 63.342(f)(1), (f)(2), (f)(3)(i)(A), (f)(3)(i)(B), (f)(3)(i)(D), (f)(3)(i)(E), (f)(3)(ii)-(vi)
(7) 40 CFR 63.342(g)
(8) Table 1 to 40 CFR 63.342
(9) 40 CFR 63.343(a)(1)(i), (a)(3)
(10) 40 CFR 63.343(b)(1), (b)(2)
(11) 40 CFR 63.343(c)(5)
(12) 40 CFR 63.344(a)
(13) 40 CFR 63.344(b)(1)
(14) 40 CFR 63.345(a)
(15) 40 CFR 63.345(b)(1) – (4) and (5)(i)
(16) 40 CFR 63.346(a)
(17) 40 CFR 63.346(b)(1) – (11), (13), (15), and (16)
(18) 40 CFR 63.346(c)
(19) 40 CFR 63.347(a)
(20) 40 CFR 63.347(b)
(21) 40 CFR 63.347(c)(1)(i) – (v) and (ix)
(22) 40 CFR 63.347(d)
(23) 40 CFR 63.347(e)
(24) 40 CFR 63.347(f)
(25) 40 CFR 63.347(h)
(26) 40 CFR 63.348
(27) Table 1 to Subpart N

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(d) One (1) polishing station, identified as PU-6B, consisting of twenty six (26) Hand Polisher Work Station Units for polishing miscellaneous metal parts and two (2) Hand Polisher Work Station Units for correction of robotic polishing defects at a maximum capacity of 240 units per eight hour shift per work station unit, with each unit weighing approximately 0.524 pounds, and one (1) Robotic Polishing Unit for polishing miscellaneous metal parts at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.309 pounds, and using a cartridge dust collector for particulate control identified as 6B and exhausting inside the building. This polishing station was installed in 1986. The two (2) Hand Polisher Work Station Units for correction of robotic polishing defects were installed in 2002.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

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

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the twenty eight (28) hand polishing units of the one (1) polishing station, PU-6B, shall not exceed 1.45 pounds per hour when operating at a process weight rate of 0.21 tons per hour.

The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 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

(b) Pursuant to 326 IAC 6-3-2(e), the allowable particulate emissions rate from any process not already regulated by 326 IAC 6.5-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour. This applies to the Robotic Polishing Unit included in the polishing station identified as PU-6B.

Compliance Determination Requirements

D.3.2 Particulate Control

In order to comply with Condition D.3.1, the cartridge dust collector for particulate control shall be in operation and control emissions from the Hand and Robotic Polisher Work Station Units (PU-6B) at all times that the Hand and Robotic Polisher Work Station Units (PU-6B) are in operation.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

Insignificant Activities

(a) Natural gas fired combustion sources with heat input equal to or less than 10 million British thermal units (Btu) per hour consisting of:

(1) Orr and Sembower natural gas fired boiler, identified as ID CU-1, with a maximum heat input rate of 5.0 million Btu per hour (constructed in 1986). [326 IAC 6-2-4]

(2) Dunham Bush natural gas fired boiler, identified as ID CU-2, with a maximum heat input rate of 5.0 million Btu per hour (constructed in 1986). [326 IAC 6-2-4]

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2]

(c) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6- 3-2].

(d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]

(r) Other categories with emissions below insignificant thresholds (i.e. less than 5 pounds per hour particulates and NOx, less than 25 pounds per day CO, or less than 3 pounds per hour VOC).

(1) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-6A, using cartridge dust collector for particulate control identified as 6A and exhausting inside the building. This unit consists of:

(A) Six (6) Robotic Polishing units with a maximum capacity of each Polishing Unit of 240 units per eight hour shift per polishing unit, with each unit weighing approximately 0.524 pounds. Four (4) of the polishing units were installed in 1986, one (1) unit, at an exemption level, was installed in 1998, and one (1) unit will be installed in 2004. [326 IAC 6-3-2]

(B) One (1) Robotic Polishing Unit identified as ID PU-3 for polishing miscellaneous metal parts at a maximum capacity of 200 units per eight hour shift with each unit weighing approximately 1.749 pounds. Particulate emissions from this unit are controlled by the cartridge dust collector identified above as 6A. [326 IAC 6-3-2]

(2) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-8. This unit consists of:

(A) Six (6) Robotic Polishing units with a maximum capacity of each Polishing Unit of 240 units per eight hour shift per polishing unit, with each unit weighing approximately 0.524 pounds, using cartridge dust collector for particulate control identified as 8 and exhausting inside the building. Four (4) of the polishing units were installed in 1986 and two (2) remaining units, at an exemption level, were installed in 1998. [326 IAC 6-3-2]

(B) One (1) Robotic Polishing Unit with a maximum capacity of 220 units per eight hour shift with each unit weighing approximately 0.95 pounds, using cartridge dust collector for particulate control identified as 8 and exhausting inside the building. This unit was installed in 2002. [326 IAC 6-3-2]

(3) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-1, using cartridge dust collector for particulate control, identified as 1A and exhausting inside the building. This unit consists of two (2) Hand Polisher Work Station Units with one (1) hand lathe for the correction of robotic polishing defects at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.309 pounds. These units will be installed in 2004. [326 IAC 6-3-2]

(4) One (1) Buffing Unit identified as ID PU-4 for polishing miscellaneous metal parts at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.524 pounds. Particulate emissions from this unit are controlled by a cartridge dust collector identified as 4 and exhaust inside the building. [326 IAC 6-3-2]

(5) Two (2) paint rack burn off ovens for stripping paint racks. Oven one is identified as CU-13 and oven two is identified as CU-14. The process weight rate of coatings to be stripped off racks in each burn off oven, CU-13 and CU-14, is less than one hundred (100) pounds per hour. Each paint rack burn off oven is natural gas fired with a maximum heat input capacity of 0.95 million Btu per hour for combined total heat input capacity of 1.9 million Btu per hour. Oven CU-13 and Oven CU-14 exhaust to Stack/Vent SV-15. Installed in 2005. [326 IAC 4-2] [326 IAC 9]

(6) Powder coating operation for coating miscellaneous metal parts, consisting of three (3) spray booths, identified as PB-1, PB-2 and PB-3, with a total maximum surface coating capacity of ten (10) pounds of powder coating per hour. Particulate emissions from this operation are controlled by a dust collector exhausting inside the building. This operation is also equipped with one (1) natural gas fired dry off oven identified as ID CU-10 with a maximum heat input rate of 1.0 million Btu per hour and exhausting through stack ID 22; and two (2) powder coating natural gas fired cure ovens identified as ID CU-11 and CU-12 each with a maximum heat input rate of 2.5 million Btu per hour and each exhausting through stacks ID 23 and 24, respectively. [326 IAC 6-3-2]

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from each of the 5.0 MMBtu per hour heat input boilers, CU-1 and CU-2, shall be limited to 0.6 pound per MMBtu heat input.

This limitation is based on the following equation:

$Pt = 1.09/Q^{0.26}$

where: Pt = maximum allowable particulate matter (PM) emitted per MMBtu heat input
Q = total source maximum operation capacity rating = 10.0 MMBtu/hr

D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

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

D.4.3 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the seven (7) robotic polishing units of the polishing station, identified as PU-8, shall not exceed 0.62 pound per hour when operating at a process weight rate of 0.06 ton per hour.

The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 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

(b) Pursuant to 326 IAC 6-3-2(e), the allowable particulate emissions rate from any process not already regulated by 326 IAC 6.5-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour. This applies to the following units:

(1) Polishing units PU-6A, PU-1, PU-3 and PU-4.

(2) Powder coating operation consisting of three (3) coating booths identified as PB-1, PB-2, and PB-3.

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

(4) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.

D.4.4 Incinerators [326 IAC 4-2]

Pursuant to 326 IAC 4-2, Oven CU-13 and Oven CU-14 shall each:

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

(b) be equipped with a primary burner;

(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 approved by the Commissioner;

(e) not emit particulate matter in excess of:

(1) five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard conditions corrected to fifty percent (50%) excess air;

(f) if any of the above requirements (a) through (e) are not met, then the owner or operator shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

(g) The incinerator is exempt from requirement (e) if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P, State Implementation Plan for Indiana.

D.4.5 Carbon Monoxide Emission Rules [326 IAC 9]

Pursuant to 326 IAC 9, emissions of carbon monoxide from Oven CU-13 and Oven CU-14 shall each be limited to the following:

Refuse incineration and refuse burning equipment: the Permittee shall not operate a refuse incinerator or refuse burning equipment unless the waste gas stream is burned in one (1) of the following:

(a) Direct-flame afterburner.

(b) Secondary chamber.

Compliance Determination Requirements

D.4.6 Particulate Control

In order to comply with Condition D.4.3, the cartridge dust collectors for polishing units PU-1, PU-4, PU-6A, PU-3, and PU-8 for particulate control shall be in operation and control emissions from the polishing units PU-1, PU-4, PU-6A, PU-3, and PU-8 at all times that each polishing facility is in operation.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Ingersoll Rand Von Duprin
Source Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
FESOP Permit No.: F097-25775-00050

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: Ingersoll Rand Von Duprin
Source Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
FESOP Permit No.: F097-25775-00050

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: _____

A certification is not required for this report.

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

FESOP Usage Report
(Submit Report Quarterly)

Source Name: Ingersoll Rand Von Duprin
Source Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
FESOP Permit No.: F097-25775-00050
Facility: F-Systems custom built solid lubricant application booth (SL-01)
Parameter: VOC
Limit: The actual usage of VOC in the F-Systems custom built solid lubricant application booth (ID SL-01), including VOC usage for clean-up, shall be less than fifteen (15) pounds per day with compliance determined at the end of each day.

Month: _____ **Year:** _____

Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

□ No deviation occurred in this month.

□ Deviation/s occurred in this month.
Deviation has been reported on_____

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Ingersoll Rand Von Duprin
Source Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
FESOP Permit No.: F097-25775-00050
Facility: F-Systems custom built solid lubricant application booth (SL-01)
Parameter: Single and Combined Hazardous Air Pollutants (HAPs)
Limit: The total usage of any single HAP and combined HAPs in the F-Systems custom built solid lubricant application booth (SL-01), including single and combined HAP usage for clean-up, shall not exceed 9.0 and 23.7 tons per twelve (12) consecutive month period with compliance determined at the end of each month, respectively.

YEAR: _____ QUARTER: _____

Month	Total Usage This Month (tons)		Total Usage Previous 11 Months (tons)		Total Usage 12 Months (tons)	
	Single HAP	Combined HAPs	Single HAP	Combined HAPs	Single HAP	Combined HAPs
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: _____

Attach a signed certification to complete this report.

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

FESOP CHROMIUM ELECTROPLATING AND ANODIZING NESHAP
ONGOING COMPLIANCE STATUS REPORT

Source Name: Ingersoll Rand Von Duprin
Source Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
FESOP Permit No.: F097-25775-00050
Tank ID #: _____
Type of process: Decorative
Monitoring Parameter: Surface tension of the electroplating or anodizing bath
Parameter Value: 45 dynes per centimeter when using a stalagmometer to measure surface tension; 35 dynes per centimeter when using a tensiometer to measure surface tension.
Limits: Total chromium concentration may not exceed _0.01_ mg/dscm

This form is to be used to report compliance for the Chromium Electroplating and Anodizing NESHAP only.
The frequency for completing this report may be altered by IDEM, OAQ, Compliance Branch.

Companies classified as a major source: ***Submit this report no later than 30 days after the end of the reporting period.***

Companies classified as an area source: ***Complete this report no later than 30 days after the end of the reporting period, and retain on site unless otherwise notified.***

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

BEGINNING AND ENDING DATES OF THE REPORTING PERIOD:			
TOTAL OPERATING TIME OF THE TANK DURING THE REPORTING PERIOD:			
MAJOR AND AREA SOURCES: CHECK ONE			
9 NO DEVIATIONS OF THE MONITORING PARAMETER ASSOCIATED WITH THIS TANK FROM THE COMPLIANT VALUE OR RANGE OF VALUES OCCURRED DURING THIS REPORTING PERIOD.			
9 THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES DURING THIS REPORTING PERIOD (THUS INDICATING THE EMISSION LIMITATION MAY HAVE BEEN EXCEEDED, WHICH COULD RESULT IN MORE FREQUENT REPORTING).			
AREA (I.E., NON-MAJOR) SOURCES OF HAP ONLY: IF DEVIATIONS OCCURRED, LIST THE AMOUNT OF TANK OPERATING TIME EACH MONTH THAT MONITORING RECORDS SHOW THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC
HARD CHROME TANKS / MAXIMUM RECTIFIER CAPACITY LIMITED IN ACCORDANCE WITH 40 CFR 63.342(c)(2) ONLY: LIST THE ACTUAL AMPERE-HOURS CONSUMED (BASED ON AN AMP-HR METER) BY THE INDIVIDUAL TANK.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC

CHROMIUM ELECTROPLATING AND ANODIZING NESHAP
ONGOING COMPLIANCE STATUS REPORT

ATTACH A SEPARATE PAGE IF NEEDED **Page 2 of 2**

IF THE OPERATION AND MAINTENANCE PLAN REQUIRED BY 40 CFR 63.342 (f)(3) WAS NOT FOLLOWED, PROVIDE AN EXPLANATION OF THE REASONS FOR NOT FOLLOWING THE PLAN AND DESCRIBE THE ACTIONS TAKEN FOR THAT EVENT:
DESCRIBE ANY CHANGES IN TANKS, RECTIFIERS, CONTROL DEVICES, MONITORING, ETC. SINCE THE LAST STATUS REPORT:
ADDITIONAL COMMENTS:
ALL SOURCES: CHECK ONE
9 I CERTIFY THAT THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE; AND, THAT THE INFORMATION CONTAINED IN THIS REPORT IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.
9 THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE NOT FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE, AS EXPLAINED ABOVE AND/OR ON ATTACHED.

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Ingersoll Rand Von Duprin
Source Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
Mailing Address: 2720 Tobey Drive, Indianapolis, Indiana 46219
FESOP Permit No.: F097-25775-00050

Months: _____ **to** _____ **Year:** _____

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

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

Attachment A, NESHAP Subpart N
Ingersoll Rand Von Duprin
FESOP Renewal No. F097-25775-00050

Subpart N—National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks

Source: 60 FR 4963, Jan. 25, 1995, unless otherwise noted.

§ 63.340 Applicability and designation of sources.

(a) The affected source to which the provisions of this subpart apply is each chromium electroplating or chromium anodizing tank at facilities performing hard chromium electroplating, decorative chromium electroplating, or chromium anodizing.

(b) Owners or operators of affected sources subject to the provisions of this subpart must also comply with the requirements of subpart A of this part, according to the applicability of subpart A of this part to such sources, as identified in Table 1 of this subpart.

(c) Process tanks associated with a chromium electroplating or chromium anodizing process, but in which neither chromium electroplating nor chromium anodizing is taking place, are not subject to the provisions of this subpart. Examples of such tanks include, but are not limited to, rinse tanks, etching tanks, and cleaning tanks. Likewise, tanks that contain a chromium solution, but in which no electrolytic process occurs, are not subject to this subpart. An example of such a tank is a chrome conversion coating tank where no electrical current is applied.

(d) Affected sources in which research and laboratory operations are performed are exempt from the provisions of this subpart when such operations are taking place.

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

[60 FR 4963, Jan. 25, 1995, as amended at 61 FR 27787, June 3, 1996; 64 FR 69643, Dec. 14, 1999; 70 FR 75345, Dec. 19, 2005]

§ 63.341 Definitions and nomenclature.

(a) *Definitions.* Terms used in this subpart are defined in the Act, in subpart A of this part, or in this section. For the purposes of subpart N of this part, if the same term is defined in subpart A of this part and in this section, it shall have the meaning given in this section.

Add-on air pollution control device means equipment installed in the ventilation system of chromium electroplating and anodizing tanks for the purposes of collecting and containing chromium emissions from the tank(s).

Air pollution control technique means any method, such as an add-on air pollution control device or a chemical fume suppressant, that is used to reduce chromium emissions from chromium electroplating and chromium anodizing tanks.

Base metal means the metal or metal alloy that comprises the workpiece.

Bath component means the trade or brand name of each component(s) in trivalent chromium plating baths. For trivalent chromium baths, the bath composition is proprietary in most cases. Therefore, the trade or brand name for each component(s) can be used; however, the chemical name of the wetting agent contained in that component must be identified.

Chemical fume suppressant means any chemical agent that reduces or suppresses fumes or mists at the surface of an electroplating or anodizing bath; another term for fume suppressant is mist suppressant.

Chromic acid means the common name for chromium anhydride (CrO_3).

Chromium anodizing means the electrolytic process by which an oxide layer is produced on the surface of a base metal for functional purposes (e.g., corrosion resistance or electrical insulation) using a chromic acid solution. In chromium anodizing, the part to be anodized acts as the anode in the electrical circuit, and the chromic acid solution, with a concentration typically ranging from 50 to 100 grams per liter (g/L), serves as the electrolyte.

Chromium anodizing tank means the receptacle or container along with the following accompanying internal and external components needed for chromium anodizing: rectifiers fitted with controls to allow for voltage adjustments, heat exchanger equipment, circulation pumps, and air agitation systems.

Chromium electroplating tank means the receptacle or container along with the following internal and external components needed for chromium electroplating: Rectifiers, anodes, heat exchanger equipment, circulation pumps, and air agitation systems.

Composite mesh-pad system means an add-on air pollution control device typically consisting of several mesh-pad stages. The purpose of the first stage is to remove large particles. Smaller particles are removed in the second stage, which consists of the composite mesh pad. A final stage may remove any reentrained particles not collected by the composite mesh pad.

Decorative chromium electroplating means the process by which a thin layer of chromium (typically 0.003 to 2.5 microns) is electrodeposited on a base metal, plastic, or undercoating to provide a bright surface with wear and tarnish resistance. In this process, the part(s) serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Typical current density applied during this process ranges from 540 to 2,400 Amperes per square meter (A/m^2) for total plating times ranging between 0.5 to 5 minutes.

Electroplating or anodizing bath means the electrolytic solution used as the conducting medium in which the flow of current is accompanied by movement of metal ions for the purposes of electroplating metal out of the solution onto a workpiece or for oxidizing the base material.

Emission limitation means, for the purposes of this subpart, the concentration of total chromium allowed to be emitted expressed in milligrams per dry standard cubic meter (mg/dscm), or the allowable surface tension expressed in dynes per centimeter (dynes/cm).

Enclosed hard chromium electroplating tank means a chromium electroplating tank that is equipped with an enclosing hood and ventilated at half the rate or less that of an open surface tank of the same surface area.

Facility means the major or area source at which chromium electroplating or chromium anodizing is performed.

Fiber-bed mist eliminator means an add-on air pollution control device that removes contaminants from a gas stream through the mechanisms of inertial impaction and Brownian diffusion. These devices are typically installed downstream of another control device, which serves to prevent plugging, and consist of one or more fiber beds. Each bed consists of a hollow cylinder formed from two concentric screens; the fiber between the screens may be fabricated from glass, ceramic plastic, or metal.

Foam blanket means the type of chemical fume suppressant that generates a layer of foam across the surface of a solution when current is applied to that solution.

Fresh water means water, such as tap water, that has not been previously used in a process operation or, if the water has been recycled from a process operation, it has been treated and meets the effluent guidelines for chromium wastewater.

Hard chromium electroplating or industrial chromium electroplating means a process by which a thick layer of chromium (typically 1.3 to 760 microns) is electrodeposited on a base material to provide a surface with functional properties such as wear resistance, a low coefficient of friction, hardness, and corrosion resistance. In this process, the part serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Hard chromium electroplating process is performed at current densities typically ranging from 1,600 to 6,500 A/m^2 for total plating times ranging from 20 minutes to 36 hours depending upon the desired plate thickness.

Hexavalent chromium means the form of chromium in a valence state of +6.

Large, hard chromium electroplating facility means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity greater than or equal to 60 million ampere-hours per year (amp-hr/yr).

Maximum cumulative potential rectifier capacity means the summation of the total installed rectifier capacity associated with the hard chromium electroplating tanks at a facility, expressed in amperes, multiplied by the maximum potential operating schedule of 8,400 hours per year and 0.7, which assumes that electrodes are energized 70 percent of the total operating time. The maximum potential operating schedule is based on operating 24 hours per day, 7 days per week, 50 weeks per year.

Open surface hard chromium electroplating tank means a chromium electroplating tank that is ventilated at a rate consistent with good ventilation practices for open tanks.

Operating parameter value means a minimum or maximum value established for a control device or process parameter which, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator is in continual compliance with the applicable emission limitation or standard.

Packed-bed scrubber means an add-on air pollution control device consisting of a single or double packed bed that contains packing media on which the chromic acid droplets impinge. The packed-bed section of the scrubber is followed by a mist eliminator to remove any water entrained from the packed-bed section.

Research or laboratory operation means an operation whose primary purpose is for research and development of new processes and products, that is conducted under the close supervision of technically trained personnel, and that is not involved in the manufacture of products for commercial sale in commerce, except in a de minimis manner.

Small, hard chromium electroplating facility means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity less than 60 million amp-hr/yr.

Stalagmometer means an instrument used to measure the surface tension of a solution by determining the mass of a drop of liquid by weighing a known number of drops or by counting the number of drops obtained from a given volume of liquid.

Surface tension means the property, due to molecular forces, that exists in the surface film of all liquids and tends to prevent liquid from spreading.

Tank operation means the time in which current and/or voltage is being applied to a chromium electroplating tank or a chromium anodizing tank.

Tensiometer means an instrument used to measure the surface tension of a solution by determining the amount of force needed to pull a ring from the liquid surface. The amount of force is proportional to the surface tension.

Trivalent chromium means the form of chromium in a valence state of +3.

Trivalent chromium process means the process used for electrodeposition of a thin layer of chromium onto a base material using a trivalent chromium solution instead of a chromic acid solution.

Wetting agent means the type of chemical fume suppressant that reduces the surface tension of a liquid.

(b) *Nomenclature.* The nomenclature used in this subpart has the following meaning:

(1) AMR=the allowable mass emission rate from each type of affected source subject to the same emission limitation in milligrams per hour (mg/hr).

(2) AMR_{sys}=the allowable mass emission rate from affected sources controlled by an add-on air pollution control device controlling emissions from multiple sources in mg/hr.

(3) EL=the applicable emission limitation from §63.342 in milligrams per dry standard cubic meter (mg/dscm).

(4) IA_{total}=the sum of all inlet duct areas from both affected and nonaffected sources in meters squared.

(5) IDA_i=the total inlet area for all ducts associated with affected sources in meters squared.

(6) $IDA_{i,a}$=the total inlet duct area for all ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in meters squared.

(7) VR=the total of ventilation rates for each type of affected source subject to the same emission limitation in dry standard cubic meters per minute (dscm/min).

(8) VR_{inlet}=the total ventilation rate from all inlet ducts associated with affected sources in dscm/min.

(9) $VR_{inlet,a}$=the total ventilation rate from all inlet ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in dscm/min.

(10) VR_{tot}=the average total ventilation rate for the three test runs as determined at the outlet by means of the Method 306 in appendix A of this part testing in dscm/min.

[60 FR 4963, Jan. 25, 1995, as amended at 69 FR 42894, July 19, 2004]

§ 63.342 Standards.

(a) Each owner or operator of an affected source subject to the provisions of this subpart shall comply with these requirements on and after the compliance dates specified in §63.343(a). All affected sources are regulated by applying maximum achievable control technology.

(b) *Applicability of emission limitations.* (1) The emission limitations in this section apply during tank operation as defined in §63.341, and during periods of startup and shutdown as these are routine occurrences for affected sources subject to this subpart. The emission limitations do not apply during periods of malfunction, but the work practice standards that address operation and maintenance and that are required by paragraph (f) of this section must be followed during malfunctions.

(d) *Standards for decorative chromium electroplating tanks using a chromic acid bath and chromium anodizing tanks.* During tank operation, each owner or operator of an existing, new, or reconstructed affected source shall control chromium emissions discharged to the atmosphere from that affected source by either:

(1) Not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.01 mg/dscm (4.4×10^{-6}gr/dscf); or

(2) If a chemical fume suppressant containing a wetting agent is used, by not allowing the surface tension of the electroplating or anodizing bath contained within the affected source to exceed 45 dynes/cm (3.1×10^{-3}lb$_f$/ft) as measured by a stalagmometer or 35 dynes/cm (2.4×10^{-3}lb$_f$/ft) as measured by a tensiometer at any time during operation of the tank.

(f) *Operation and maintenance practices.* All owners or operators subject to the standards in paragraphs (c) and (d) of this section are subject to these operation and maintenance practices.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

(2)(i) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source.

(ii) Based on the results of a determination made under paragraph (f)(2)(i) of this section, the Administrator may require that an owner or operator of an affected source make changes to the operation and maintenance plan required by paragraph (f)(3) of this section for that source. Revisions may be required if the Administrator finds that the plan:

(A) Does not address a malfunction that has occurred;

(B) Fails to provide for the proper operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or

(C) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

(3) *Operation and maintenance plan.* (i) The owner or operator of an affected source subject to paragraph (f) of this section shall prepare an operation and maintenance plan no later than the compliance date, except for hard chromium electroplaters and the chromium anodizing operations in California which have until January 25, 1998. The plan shall be incorporated by reference into the source's title V permit, if and when a title V permit is required. The plan shall include the following elements:

(A) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;

(B) For sources using an add-on control device or monitoring equipment to comply with this subpart, the plan shall incorporate the operation and maintenance practices for that device or monitoring equipment, as identified in Table 1 of this section, if the specific equipment used is identified in Table 1 of this section;

(D) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur; and

(E) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.

(ii) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.

(iii) Recordkeeping associated with the operation and maintenance plan is identified in §63.346(b). Reporting associated with the operation and maintenance plan is identified in §63.347 (g) and (h) and paragraph (f)(3)(iv) of this section.

(iv) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by paragraph (f)(3)(i) of this section, the owner or operator shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator.

(v) The owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the source is no longer subject to the provisions of this subpart. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Administrator for a period of 5 years after each revision to the plan.

(vi) To satisfy the requirements of paragraph (f)(3) of this section, the owner or operator may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of this section.

(g) The standards in this section that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent.

Table 1 to §63.342—Summary of Operation and Maintenance Practices

Control technique	Operation and maintenance practices	Frequency
Composite mesh-pad (CMP) system	1. Visually inspect device to ensure there is proper drainage, no chronic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device	1. 1/quarter.
	2. Visually inspect back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist	2. 1/quarter.
	3. Visually inspect ductwork from tank to the control device to ensure there are no leaks	3. 1/quarter.
	4. Perform washdown of the composite mesh-pads in accordance with manufacturers recommendations	4. Per manufacturer.
Packed-bed scrubber (PSB)	1. Visually inspect device to ensure there is proper drainage, no chromic acid buildup on the packed beds, and no evidence of chemical attack on the structural integrity of the device	1. 1/quarter.

	2. Visually inspect back portion of the chevron blade mist eliminator to ensure that it is dry and there is no breakthrough of chromic acid mist	2. 1/quarter.
	3. Same as number 3 above	3. 1/quarter.
	4. Add fresh makeup water to the top of the packed bed[a,b]	4. Whenever makeup is added.
PBS/CMP system	1. Same as for CMP system	1. 1/quarter.
	2. Same as for CMP system	2. 1/quarter.
	3. Same as for CMP system	3. 1/quarter.
	4. Same as for CMP system	4. Per manufacturer.
Fiber-bed mist eliminator[c]	1. Visually inspect fiber-bed unit and prefiltering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices	1. 1/quarter.
	2. Visually inspect ductwork from tank or tanks to the control device to ensure there are no leaks	2. 1/quarter.
	3. Perform washdown of fiber elements in accordance with manufacturers recommendations	3. Per manufacturer.
Air pollution control device (APCD) not listed in rule	To be proposed by the source for approval by the Administrator	To be proposed by the source for approval by the Administrator.
Monitoring Equipment		
Pitot tube	Backflush with water, or remove from the duct and rinse with fresh water. Replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained. Check pitot tube ends for damage. Replace pitot tube if cracked or fatigued	1/quarter.
Stalagmometer	Follow manufacturers recommendations	

[a]If greater than 50 percent of the scrubber water is drained (e.g., for maintenance purposes), makeup water may be added to the scrubber basin.

[b]For horizontal-flow scrubbers, top is defined as the section of the unit directly above the packing media such that the makeup water would flow perpendicular to the air flow through the packing. For vertical-flow units, the top is defined as the area downstream of the packing material such that the makeup water would flow countercurrent to the air flow through the unit.

[c]Work practice standards for the control device installed upstream of the fiber-bed mist eliminator to prevent plugging do not apply as long as the work practice standards for the fiber-bed unit are followed.

[60 FR 4963, Jan. 25, 1995; 60 FR 33122, June 27, 1995, as amended at 61 FR 27787, June 3, 1996; 62 FR 42920, Aug. 11, 1997; 68 FR 37347, June 23, 2003; 69 FR 42894, July 19, 2004; 71 FR 20456, Apr. 20, 2006]

§ 63.343 Compliance provisions.

(a) *Compliance dates.* (1) The owner or operator of an existing affected source shall comply with the emission limitations in §63.342 as follows:

(i) No later than 1 year after January 25, 1995, if the affected source is a decorative chromium electroplating tank;

(3) The owner or operator of an existing area source that increases actual or potential emissions of hazardous air pollutants such that the area source becomes a major source must comply with the provisions for existing major sources, including the reporting provisions of §63.347(g), immediately upon becoming a major source.

(b) *Methods to demonstrate initial compliance.* (1) Except as provided in paragraphs (b)(2) and (b)(3) of this section, an owner or operator of an affected source subject to the requirements of this subpart is required to conduct an initial performance test as required under §63.7, except for hard chromium electroplaters and chromium anodizing operations in California which have until January 25, 1998, using the procedures and test methods listed in §§63.7 and 63.344.

(2) If the owner or operator of an affected source meets all of the following criteria, an initial performance test is not required to be conducted under this subpart:

(i) The affected source is a hard chromium electroplating tank, a decorative chromium electroplating tank or a chromium anodizing tank; and

(ii) A wetting agent is used in the plating or anodizing bath to inhibit chromium emissions from the affected source; and

(iii) The owner or operator complies with the applicable surface tension limit of §63.342(c)(1)(iii), (c)(2)(iii), or (d)(2) as demonstrated through the continuous compliance monitoring required by paragraph (c)(5)(ii) of this section.

(c) *Monitoring to demonstrate continuous compliance.* The owner or operator of an affected source subject to the emission limitations of this subpart shall conduct monitoring according to the type of air pollution control technique that is used to comply with the emission limitation. The monitoring required to demonstrate continuous compliance with the emission limitations is identified in this section for the air pollution control techniques expected to be used by the owners or operators of affected sources.

(5) *Wetting agent-type or combination wetting agent-type/foam blanket fume suppressants.* (i) During the initial performance test, the owner or operator of an affected source complying with the emission limitations in §63.342 through the use of a wetting agent in the electroplating or anodizing bath shall determine the outlet chromium concentration using the procedures in §63.344(c). The owner or operator shall establish as the site-specific operating parameter the surface tension of the bath using Method 306B, appendix A of this part, setting the maximum value that corresponds to compliance with the applicable emission limitation. In lieu of establishing the maximum surface tension during the performance test, the owner or operator may accept 45 dynes/cm as measured by a stalagmometer or 35 dynes/cm as measured by a tensiometer as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. However, the owner or operator is exempt from conducting a performance test only if the criteria of paragraph (b)(2) of this section are met.

(ii) On and after the date on which the initial performance test is required to be completed under §63.7, except for hard chromium electroplaters and chromium anodizing operations in California, which have until January 25, 1998, the owner or operator of an affected source shall monitor the surface tension of the electroplating or anodizing bath. Operation of the affected source at a surface tension greater than the value established during the performance test, or greater than 45 dynes/cm as measured by a stalagmometer or 35 dynes/cm as measured by a tensiometer if the owner or operator is using this value in accordance with paragraph (c)(5)(i) of this section, shall constitute noncompliance with the standards. The surface tension shall be monitored according to the following schedule:

(A) The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.

(B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.

(C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (c)(5)(ii)(B) of this section. For example, if an owner or operator had been monitoring an affected source once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once every 40 hours of tank operation.

(iii) Once a bath solution is drained from the affected tank and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures of paragraphs (c)(5)(ii) (B) and (C) of this section.

§ 63.344 Performance test requirements and test methods.

(a) *Performance test requirements.* Performance tests shall be conducted using the test methods and procedures in this section and §63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(9) of this section. The test plan to be followed shall be made available to the Administrator prior to the testing, if requested.

(1) A brief process description;

(2) Sampling location description(s);

(3) A description of sampling and analytical procedures and any modifications to standard procedures;

(4) Test results;

(5) Quality assurance procedures and results;

(6) Records of operating conditions during the test, preparation of standards, and calibration procedures;

(7) Raw data sheets for field sampling and field and laboratory analyses;

(8) Documentation of calculations; and

(9) Any other information required by the test method.

(b)(1) If the owner or operator of an affected source conducts performance testing at startup to obtain an operating permit in the State in which the affected source is located, the results of such testing may be used to demonstrate compliance with this subpart if:

(i) The test methods and procedures identified in paragraph (c) of this section were used during the performance test;

(ii) The performance test was conducted under representative operating conditions for the source;

(iii) The performance test report contains the elements required by paragraph (a) of this section; and

(iv) The owner or operator of the affected source for which the performance test was conducted has sufficient data to establish the operating parameter value(s) that correspond to compliance with the standards, as required for continuous compliance monitoring under §63.343(c).

§ 63.345 Provisions for new and reconstructed sources.

(a) This section identifies the preconstruction review requirements for new and reconstructed affected sources that are subject to, or become subject to, this subpart.

(b) *New or reconstructed affected sources.* The owner or operator of a new or reconstructed affected source is subject to §63.5(a), (b)(1), (b)(5), (b)(6), and (f)(1), as well as the provisions of this paragraph.

(1) After January 25, 1995, whether or not an approved permit program is effective in the State in which an affected source is (or would be) located, no person may construct a new affected source or reconstruct an affected source subject to this subpart, or reconstruct a source such that it becomes an affected source subject to this subpart, without submitting a notification of construction or reconstruction to the Administrator. The notification shall contain the information identified in paragraphs (b) (2) and (3) of this section, as appropriate.

(2) The notification of construction or reconstruction required under paragraph (b)(1) of this section shall include:

(i) The owner or operator's name, title, and address;

(ii) The address (i.e., physical location) or proposed address of the affected source if different from the owner's or operator's;

(iii) A notification of intention to construct a new affected source or make any physical or operational changes to an affected source that may meet or has been determined to meet the criteria for a reconstruction as defined in §63.2;

(iv) An identification of subpart N of this part as the basis for the notification;

(v) The expected commencement and completion dates of the construction or reconstruction;

(vi) The anticipated date of (initial) startup of the affected source;

(vii) The type of process operation to be performed (hard or decorative chromium electroplating, or chromium anodizing);

(viii) A description of the air pollution control technique to be used to control emissions from the affected source, such as preliminary design drawings and design capacity if an add-on air pollution control device is used; and

(ix) An estimate of emissions from the source based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission limits of this subpart. Calculations of emission estimates should be in sufficient detail to permit assessment of the validity of the calculations.

(3) If a reconstruction is to occur, the notification required under paragraph (b)(1) of this section shall include the following in addition to the information required in paragraph (b)(2) of this section:

(i) A brief description of the affected source and the components to be replaced;

(ii) A brief description of the present and proposed emission control technique, including the information required by paragraphs (b)(2) (viii) and (ix) of this section;

(iii) An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new source;

(iv) The estimated life of the affected source after the replacements; and

(v) A discussion of any economic or technical limitations the source may have in complying with relevant standards or other requirements after the proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the Administrator's satisfaction that the technical or economic limitations affect the source's ability to comply with the relevant standard and how they do so.

(vi) If in the notification of reconstruction, the owner or operator designates the affected source as a reconstructed source and declares that there are no economic or technical limitations to prevent the source from complying with all relevant standards or requirements, the owner or operator need not submit the information required in paragraphs (b)(3) (iii) through (v) of this section.

(4) The owner or operator of a new or reconstructed affected source that submits a notification in accordance with paragraphs (b) (1) through (3) of this section is not subject to approval by the Administrator. Construction or reconstruction is subject only to notification and can begin upon submission of a complete notification.

(5) *Submittal timeframes.* After January 25, 1995, whether or not an approved permit program is effective in the State in which an affected source is (or would be) located, an owner or operator of a new or reconstructed affected source shall submit the notification of construction or reconstruction required by paragraph (b)(1) of this section according to the following schedule:

(i) If construction or reconstruction commences after January 25, 1995, the notification shall be submitted as soon as practicable before the construction or reconstruction is planned to commence.

§ 63.346 Recordkeeping requirements.

(a) The owner or operator of each affected source subject to these standards shall fulfill all recordkeeping requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A of this part as identified in Table 1 of this subpart.

(b) The owner or operator of an affected source subject to the provisions of this subpart shall maintain the following records for such source:

(1) Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of §63.342(f) and Table 1 of §63.342 have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

(2) Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment;

(3) Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;

(4) Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;

(5) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by §63.342(f)(3);

(6) Test reports documenting results of all performance tests;

(7) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of §63.344(e);

(8) Records of monitoring data required by §63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected;

(9) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;

(10) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment;

(11) The total process operating time of the affected source during the reporting period;

(13) For sources using fume suppressants to comply with the standards, records of the date and time that fume suppressants are added to the electroplating or anodizing bath;

(15) Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements, if the source has been granted a waiver under §63.10(f); and

(16) All documentation supporting the notifications and reports required by §63.9, §63.10, and §63.347.

(c) All records shall be maintained for a period of 5 years in accordance with §63.10(b)(1).

§ 63.347 Reporting requirements.

(a) The owner or operator of each affected source subject to these standards shall fulfill all reporting requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A as identified in Table 1 of this subpart. These reports shall be made to the Administrator at the appropriate address as identified in §63.13 or to the delegated State authority.

(1) Reports required by subpart A of this part and this section may be sent by U.S. mail, fax, or by another courier.

(i) Submittals sent by U.S. mail shall be postmarked on or before the specified date.

(ii) Submittals sent by other methods shall be received by the Administrator on or before the specified date.

(2) If acceptable to both the Administrator and the owner or operator of an affected source, reports may be submitted on electronic media.

(b) The reporting requirements of this section apply to the owner or operator of an affected source when such source becomes subject to the provisions of this subpart.

(c) *Initial notifications.* (1) The owner or operator of an affected source that has an initial startup before January 25, 1995, shall notify the Administrator in writing that the source is subject to this subpart. The notification shall be submitted no later than 180 calendar days after January 25, 1995, and shall contain the following information:

(i) The name, title, and address of the owner or operator;

(ii) The address (i.e., physical location) of each affected source;

(iii) A statement that subpart N of this part is the basis for this notification;

(iv) Identification of the applicable emission limitation and compliance date for each affected source;

(v) A brief description of each affected source, including the type of process operation performed;

(ix) A statement of whether the affected source is located at a major source or an area source as defined in §63.2.

(d) *Notification of performance test.* (1) The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the test is scheduled to begin to allow the Administrator to have an observer present during the test. Observation of the performance test by the Administrator is optional.

(2) In the event the owner or operator is unable to conduct the performance test as scheduled, the provisions of §63.7(b)(2) apply.

(e) *Notification of compliance status.* (1) A notification of compliance status is required each time that an affected source becomes subject to the requirements of this subpart.

(2) If the State in which the source is located has not been delegated the authority to implement the rule, each time a notification of compliance status is required under this part, the owner or operator of an affected source shall submit to the Administrator a notification of compliance status, signed by the responsible official (as defined in §63.2) who shall certify its accuracy, attesting to whether the affected source has complied with this subpart. If the State has been delegated the authority, the notification of compliance status shall be submitted to the appropriate authority. The notification shall list for each affected source:

(i) The applicable emission limitation and the methods that were used to determine compliance with this limitation;

(ii) If a performance test is required by this subpart, the test report documenting the results of the performance test, which contains the elements required by §63.344(a), including measurements and calculations to support the special compliance provisions of §63.344(e) if these are being followed;

(iii) The type and quantity of hazardous air pollutants emitted by the source reported in mg/dscm or mg/hr if the source is using the special provisions of §63.344(e) to comply with the standards. (If the owner or operator is subject to the construction and reconstruction provisions of §63.345 and had previously submitted emission estimates, the owner or operator shall state that this report corrects or verifies the previous estimate.) For sources not required to conduct a performance test in accordance with §63.343(b), the surface tension measurement may fulfill this requirement;

(iv) For each monitored parameter for which a compliant value is to be established under §63.343(c), the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

(v) The methods that will be used to determine continuous compliance, including a description of monitoring and reporting requirements, if methods differ from those identified in this subpart;

(vi) A description of the air pollution control technique for each emission point;

(vii) A statement that the owner or operator has completed and has on file the operation and maintenance plan as required by the work practice standards in §63.342(f);

(viii) If the owner or operator is determining facility size based on actual cumulative rectifier capacity in accordance with §63.342(c)(2), records to support that the facility is small. For existing sources, records from any 12-month period preceding the compliance date shall be used or a description of how operations

will change to meet a small designation shall be provided. For new sources, records of projected rectifier capacity for the first 12-month period of tank operation shall be used;

(ix) A statement by the owner or operator of the affected source as to whether the source has complied with the provisions of this subpart.

(3) For sources required to conduct a performance test by §63.343(b), the notification of compliance status shall be submitted to the Administrator no later than 90 calendar days following completion of the compliance demonstration required by §63.7 and §63.343(b).

(4) For sources that are not required to complete a performance test in accordance with §63.343(b), the notification of compliance status shall be submitted to the Administrator no later than 30 days after the compliance date specified in §63.343(a), except the date on which sources in California shall monitor the surface tension of the anodizing bath is extended to January 25, 1998.

(f) *Reports of performance test results.* (1) If the State in which the source is located has not been delegated the authority to implement the rule, the owner or operator of an affected source shall report to the Administrator the results of any performance test conducted as required by §63.7 or §63.343(b). If the State has been delegated the authority, the owner or operator of an affected source should report performance test results to the appropriate authority.

(2) Reports of performance test results shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status required by paragraph (e) of this section.

(h) *Ongoing compliance status reports for area sources.* The requirements of this paragraph do not alleviate affected area sources from complying with the requirements of State or Federal operating permit programs under 40 CFR part 71.

(1) The owner or operator of an affected source that is located at an area source site shall prepare a summary report to document the ongoing compliance status of the affected source. The report shall contain the information identified in paragraph (g)(3) of this section, shall be completed annually and retained on site, and made available to the Administrator upon request. The report shall be completed annually except as provided in paragraph (h)(2) of this section.

(2) *Reports of exceedances.* (i) If both of the following conditions are met, semiannual reports shall be prepared and submitted to the Administrator:

(A) The total duration of excess emissions (as indicated by the monitoring data collected by the owner or operator of the affected source in accordance with §63.343(c)) is 1 percent or greater of the total operating time for the reporting period; and

(B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

(ii) Once an owner or operator of an affected source reports an exceedance as defined in paragraph (h)(2)(i) of this section, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency under paragraph (h)(3) of this section is approved.

(iii) The Administrator may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

(3) *Request to reduce frequency of ongoing compliance status reports.* (i) An owner or operator who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report onsite if all of the following conditions are met:

(A) For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit;

(B) The owner or operator continues to comply with all applicable recordkeeping and monitoring requirements of subpart A of this part and this subpart; and

(C) The Administrator does not object to a reduced reporting frequency for the affected source, as provided in paragraphs (h)(3) (ii) and (iii) of this section.

(ii) The frequency of submitting ongoing compliance status reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change, and the Administrator does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the Administrator may review information concerning the source's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data, and evaluations of an owner or operator's conformance with emission limitations and work practice standards. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce reporting frequency, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(iii) As soon as the monitoring data required by §63.343(c) show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the owner shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the owner or operator may again request approval from the Administrator to reduce the reporting frequency as allowed by paragraph (h)(3) of this section.

§ 63.348 Implementation and enforcement.

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.340, 63.342(a) through (e) and (g), and 63.343(a).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

[68 FR 37347, June 23, 2003]

Table 1 to Subpart N of Part 63—General Provisions Applicability to Subpart N

General provisions reference	Applies to subpart N	Comment
63.1(a)(1)	Yes	Additional terms defined in §63.341; when overlap between subparts A and N occurs, subpart N takes precedence.
63.1(a)(2)	Yes	
63.1(a)(3)	Yes	
63.1(a)(4)	Yes	Subpart N clarifies the applicability of each paragraph in subpart A to sources subject to subpart N.
63.1(a)(6)	Yes	
63.1(a)(7)	Yes	
63.1(a)(8)	Yes	
63.1(a)(10)	Yes	
63.1(a)(11)	Yes	§63.347(a) of subpart N also allows report submissions via fax and on electronic media.
63.1(a)(12)–(14)	Yes	
63.1(b)(1)	No	§63.340 of subpart N specifies applicability.
63.1(b)(2)	Yes	
63.1(b)(3)	No	This provision in subpart A is being deleted. Also, all affected area and major sources are subject to subpart N; there are no exemptions.
63.1(c)(1)	Yes	Subpart N clarifies the applicability of each paragraph in subpart A to sources subject to subpart N.
63.1(c)(2)	Yes	§63.340(e) of Subpart N exempts area sources from the obligation to obtain Title V operating permits.
63.1(c)(4)	Yes	
63.1(c)(5)	No	Subpart N clarifies that an area source that becomes a major source is subject to the requirements for major sources.
63.1(e)	Yes	
63.2	Yes	Additional terms defined in §63.341; when overlap between subparts A and N occurs, subpart N takes precedence.
63.3	Yes	Other units used in subpart N are defined in that subpart.
63.4	Yes	
63.5(a)	Yes	Except replace the term “source” and “stationary source” in §63.5(a) (1) and (2) of subpart A with “affected sources.”
63.5(b)(1)	Yes	
63.5(b)(3)	Yes	Applies only to major affected sources.
63.5(b)(4)	No	Subpart N (§63.345) specifies requirements for the notification of construction or reconstruction for affected sources that are not major.
63.5(b)(5)	Yes	

General provisions reference	Applies to subpart N	Comment
63.5(b)(6)	Yes	
63.5(d)(1)(i)	No	§63.345(c)(5) of subpart N specifies when the application or notification shall be submitted.
63.5(d)(1)(ii)	Yes	Applies to major affected sources that are new or reconstructed.
63.5(d)(1)(iii)	Yes	Except information should be submitted with the Notification of Compliance Status required by §63.347(e) of subpart N.
63.5(d)(2)	Yes	Applies to major affected sources that are new or reconstructed except: (1) replace “source” in §63.5(d)(2) of subpart A with “affected source”; and (2) actual control efficiencies are submitted with the Notification of Compliance Status required by §63.347(e).
63.5(d)(3)–(4)	Yes	Applies to major affected sources that are new or reconstructed.
63.5(e)	Yes	Applies to major affected sources that are new or reconstructed.
63.5(f)(1)	Yes	Except replace “source” in §63.5(f)(1) of subpart A with “affected source.”
63.5(f)(2)	No	New or reconstructed affected sources shall submit the request for approval of construction or reconstruction under §63.5(f) of subpart A by the deadline specified in §63.345(c)(5) of subpart N.
63.6(a)	Yes	
63.6(b)(1)–(2)	Yes	Except replace “source” in §63.6(b)(1)–(2) of part A with “affected source.”
63.6(b)(3)–(4)	Yes	
63.6(b)(5)	Yes	Except replace “source” in §63.6(b)(5) of subpart A with “affected source.”
63.6(b)(7)	No	Provisions for new area sources that become major sources are contained in §63.343(a)(4) of subpart N.
63.6(c)(1)–(2)	Yes	Except replace “source” in §63.6(c)(1)–(2) of subpart A with “affected source.”
63.6(c)(5)	No	Compliance provisions for existing area sources that become major sources are contained in §63.343(a)(3) of subpart N.
63.6(e)	No	§63.342(f) of subpart N contains work practice standards (operation and maintenance requirements) that override these provisions.
63.6(f)(1)	No	§63.342(b) of subpart N specifies when the standards apply.
63.6(f)(2)(i)–(ii)	Yes	
63.6(f)(2)(iii)	No	§63.344(b) of subpart N specifies instances in which previous performance test results for existing sources are acceptable.
63.6(f)(2)(iv)	Yes	
63.6(f)(2)(v)	Yes	
63.6(f)(3)	Yes	
63.6(g)	Yes	
63.6(h)	No	Subpart N does not contain any opacity or visible emission standards.
63.6(i)(1)	Yes	
63.6(i)(2)	Yes	Except replace “source” in §63.6(i)(2)(i) and (ii) of subpart A with “affected source.”

General provisions reference	Applies to subpart N	Comment
63.6(i)(3)	Yes	
63.6(i)(4)(i)	No	§63.343(a)(6) of subpart N specifies the procedures for obtaining an extension of compliance and the date by which such requests must be submitted.
63.6(i)(4)(ii)	Yes	
63.6(i)(5)	Yes	
63.6(i)(6)(i)	Yes	This paragraph only references “paragraph (i)(4) of this section” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.
63.6(i)(6)(ii)	Yes	
63.6(i)(7)	Yes	
63.6(i)(8)	Yes	This paragraph only references “paragraphs (i)(4) through (i)(6) of this section” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.
63.6(i)(9)	Yes	This paragraph only references “paragraphs (i)(4) through (i)(6) of this section” and “paragraphs (i)(4) and (i)(5) of this section” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.
63.6(i)(10)(i)–(iv)	Yes	
63.6(i)(10)(v)(A)	Yes	This paragraph only references “paragraph (i)(4)” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.
63.6(i)(10)(v)(B)	Yes	
63.6(i)(11)	Yes	
63.6(i)(12)(i)	Yes	This paragraph only references “paragraph (i)(4)(i) or (i)(5) of this section” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.
63.6(i)(12)(ii)–(iii)	Yes	
63.6(i)(13)	Yes	
63.6(i)(14)	Yes	
63.6(i)(16)	Yes	
63.6(j)	Yes	
63.7(a)(1)	Yes	
63.7(a)(2)(i)–(vi)	Yes	
63.7(a)(2)(ix)	Yes	
63.7(a)(3)	Yes	
63.7(b)(1)	No	§63.347(d) of subpart N requires notification prior to the performance test. §63.344(a) of subpart N requires submission of a site-specific test plan upon request.
63.7(b)(2)	Yes	

General provisions reference	Applies to subpart N	Comment
63.7(c)	No	§63.344(a) of subpart N specifies what the test plan should contain, but does not require test plan approval or performance audit samples.
63.7(d)	Yes	Except replace “source” in the first sentence of §63.7(d) of subpart A with “affected source.”
63.7(e)	Yes	Subpart N also contains test methods specific to affected sources covered by that subpart.
63.7(f)	Yes	§63.344(c)(2) of subpart N identifies CARB Method 425 as acceptable under certain conditions.
63.7(g)(1)	No	Subpart N identifies the items to be reported in the compliance test [§63.344(a)] and the timeframe for submitting the results [§63.347(f)].
63.7(g)(3)	Yes	
63.7(h)(1)–(2)	Yes	
63.7(h)(3)(i)	Yes	This paragraph only references “§63.6(i)” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension.
63.7(h)(3)(ii)–(iii)	Yes	
63.7(h)(4)–(5)	Yes	
63.8(a)(1)	Yes	
63.8(a)(2)	No	Work practice standards are contained in §63.342(f) of subpart N.
63.8(a)(4)	No	
63.8(b)(1)	Yes	
63.8(b)(2)	No	§63.344(d) of subpart N specifies the monitoring location when there are multiple sources.
63.8(b)(3)	No	§63.347(g)(4) of subpart N identifies reporting requirements when multiple monitors are used.
63.8(c)(1)(i)	No	Subpart N requires proper maintenance of monitoring devices expected to be used by sources subject to subpart N.
63.8(c)(1)(ii)	No	§63.342(f)(3)(iv) of subpart N specifies reporting when the O&M plan is not followed.
63.8(c)(1)(iii)	No	§63.343(f)(2) identifies the criteria for whether O&M procedures are acceptable.
63.8(c)(2)–(3)	No	§63.344(d)(2) requires appropriate use of monitoring devices.
63.8(c)(4)–(7)	No	
63.8(d)	No	Maintenance of monitoring devices is required by §§63.342(f) and 63.344(d)(2) of subpart N.
63.8(e)	No	There are no performance evaluation procedures for the monitoring devices expected to be used to comply with subpart N.
63.8(f)(1)	Yes	

General provisions reference	Applies to subpart N	Comment
63.8(f)(2)	No	Instances in which the Administrator may approve alternatives to the monitoring methods and procedures of subpart N are contained in §63.343(c)(8) of subpart N.
63.8(f)(3)	Yes	
63.8(f)(4)	Yes	
63.8(f)(5)	Yes	
63.8(f)(6)	No	Subpart N does not require the use of CEMs.
63.8(g)	No	Monitoring data does not need to be reduced for reporting purposes because subpart N requires measurement once/day.
63.9(a)	Yes	
63.9(b)(1)(i)–(ii)	No	§63.343(a)(3) of subpart N requires area sources to comply with major source provisions if an increase in HAP emissions causes them to become major sources.
63.9(b)(1)(iii)	No	§63.347(c)(2) of subpart N specifies initial notification requirements for new or reconstructed affected sources.
63.9(b)(2)	No	§63.347(c)(1) of subpart N specifies the information to be contained in the initial notification.
63.9(b)(3)	No	§63.347(c)(2) of subpart N specifies notification requirements for new or reconstructed sources that are not major affected sources.
63.9(b)(4)	No	
63.9(b)(5)	No	
63.9(c)	Yes	This paragraph only references “§63.6(i)(4) through §63.6(i)(6)” for compliance extension provisions. But, §63.343(a)(6) of subpart N also contains provisions for requesting a compliance extension. Subpart N provides a different timeframe for submitting the request than §63.6(i)(4).
63.9(d)	Yes	This paragraph only references “the notification dates established in paragraph (g) of this section.” But, §63.347 of subpart N also contains notification dates.
63.9(e)	No	Notification of performance test is required by §63.347(d) of subpart N.
63.9(f)	No	
63.9(g)	No	Subpart N does not require a performance evaluation or relative accuracy test for monitoring devices.
63.9(h)(1)–(3)	No	§63.347(e) of subpart N specifies information to be contained in the notification of compliance status and the timeframe for submitting this information.
63.9(h)(5)	No	Similar language has been incorporated into §63.347(e)(2)(iii) of subpart N.
63.9(h)(6)	Yes	
63.9(i)	Yes	
63.9(j)	Yes	
63.10(a)	Yes	
63.10(b)(1)	Yes	

General provisions reference	Applies to subpart N	Comment
63.10(b)(2)	No	§63.346(b) of subpart N specifies the records that must be maintained.
63.10(b)(3)	No	Subpart N applies to major and area sources.
63.10(c)	No	Applicable requirements of §63.10(c) have been incorporated into §63.346(b) of subpart N.
63.10(d)(1)	Yes	
63.10(d)(2)	No	§63.347(f) of subpart N specifies the timeframe for reporting performance test results.
63.10(d)(3)	No	Subpart N does not contain opacity or visible emissions standards.
63.10(d)(4)	Yes	
63.10(d)(5)	No	§63.342(f)(3)(iv) and §63.347(g)(3) of subpart N specify reporting associated with malfunctions.
63.10(e)	No	§63.347(g) and (h) of subpart N specify the frequency of periodic reports of monitoring data used to establish compliance. Applicable requirements of §63.10(e) have been incorporated into §63.347(g) and (h).
63.10(f)	Yes	
63.11	No	Flares will not be used to comply with the emission limits.
63.12–63.15	Yes	

[60 FR 4963, Jan. 25, 1995, as amended at 61 FR 27787, June 3, 1996; 70 FR 75345, Dec. 19, 2005]

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the Technical Support Document
for a Federally Enforceable State Operating Permit Renewal

Source Name:	**Ingersoll Rand Von Duprin**
Source Location:	**2720 Tobey Drive, Indianapolis, IN 46219**
County:	**Marion**
SIC Code:	**3429, 3446, 3469, 3471**
Permit Renewal No.:	**F097-25775-00050**
Permit Reviewer:	**ERG/TE**

On February 12, 2009, the Office of Air Quality (OAQ) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that Ingersoll Rand Von Duprin (IR Von Duprin) had proposed to renew a Federally Enforceable State Operating Permit (FESOP) for the operation of a stationary source that performs surface coating of miscellaneous metal parts with powders, decorative chromium electroplating and metal trimming and stamping of architectural hardware products. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, OAQ has decided to make the following changes to the FESOP Renewal. The TSD will remain as it originally appeared when published. Changes to the permit or technical support material that occur after the permit has published for public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. Bolded language has been added and the language with strikeout has been deleted.

The changes to the FESOP Renewal are as follows:

Change 1

Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

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

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

Change 2:

Condition B.20 of the permit has been amended as follows:

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 ~~and 326 IAC 2-8-11.1~~.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	**Ingersoll Rand Von Duprin**
Source Location:	**2720 Tobey Drive, Indianapolis, IN 46219**
County:	**Marion**
SIC Code:	**3429, 3446, 3469, 3471**
Permit Renewal No.:	**F097-25775-00050**
Permit Reviewer:	**ERG/TE**

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Ingersoll Rand Von Duprin (IR Von Duprin) for the operation of a stationary source that performs surface coating of miscellaneous metal parts with powders, decorative chromium electroplating and metal trimming and stamping of architectural hardware products.

History

On December 21, 2007, IR Von Duprin submitted an application to the OAQ to renew its operating permit. IR Von Duprin was issued a FESOP Renewal (F097-16154-00050) on September 22, 2003.

In the FESOP Renewal application, IR Von Duprin stated that an insignificant laser cutting operation had been added to the source. On September 29, 2008, IR Von Duprin submitted an additional application (097-27053-00050) to the OAQ to modify the laser cutting operation to include the cutting of stainless steel in addition to standard steel and carbon steel. This application was combined into this FESOP Renewal.

Permitted Emission Units and Pollution Control Equipment

(a) One (1) F-Systems custom built solid lubricant application booth, identified as Emission Unit ID SL-01, constructed in 1998, for surface coating of miscellaneous metal parts with maximum coating capacity of 4.69 gallons of coating per hour, equipped with dry filters for particulate emissions control and exhausting through Stack ID SV25. There is also one (1) associated natural gas fired curing oven which is listed under the Insignificant Activities below.

(b) One (1) Single Hoist Line decorative chromium electroplating line, identified as ID SHL-5, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as West Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, West Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 5. West Chrome Tank is an affected source subject to the provisions of 40 CFR 63, Subpart N.

(c) One (1) Dual Hoist Line decorative chromium electroplating line, identified as ID DHL-13, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as East Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per

centimeter when using a tensiometer to measure surface tension. Additionally, East Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 16. East Chrome Tank is an affected source subject to the provisions of 40 CFR 63, Subpart N.

(d) One (1) polishing station, identified as PU-6B, consisting of twenty six (26) Hand Polisher Work Station Units for polishing miscellaneous metal parts and two (2) Hand Polisher Work Station Units for correction of robotic polishing defects at a maximum capacity of 240 units per eight hour shift per work station unit, with each unit weighing approximately 0.524 pounds, and one (1) Robotic Polishing Unit for polishing miscellaneous metal parts at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.309 pounds, and using a cartridge dust collector for particulate control identified as 6B and exhausting inside the building. This polishing station was installed in 1986. The two (2) Hand Polisher Work Station Units for correction of robotic polishing defects were installed in 2002.

Note: The two (2) Hand Polisher Work Station Units for correction of robotic polishing defects has been relocated from dust collector 6A to dust collector 6B since issuance of the previous FESOP Renewal.

Insignificant Activities

(a) Natural gas fired combustion sources with heat input equal to or less than 10 million British thermal units (Btu) per hour consisting of:

(1) Orr and Sembower natural gas fired boiler, identified as ID CU-1, with a maximum heat input rate of 5.0 million Btu per hour (constructed in 1986). [326 IAC 6-2-4]
(2) Dunham Bush natural gas fired boiler, identified as ID CU-2, with a maximum heat input rate of 5.0 million Btu per hour (constructed in 1986). [326 IAC 6-2-4]
(3) One (1) natural gas fired cogeneration unit (generator/water heater), with a maximum heat input rate of 0.95 million Btu per hour (constructed in 2003).
(4) One natural gas fired 75 kW microturbine, with a maximum heat input rate of 0.95 million Btu per hour (constructed in 2003).
(5) One (1) natural gas fired cure oven identified as ID CU-7 with a maximum heat input rate of 0.8 million Btu per hour.
(6) One (1) natural gas fired curing oven associated with Emission Unit ID SL-01, with a maximum heat input rate of 2.0 million Btu per hour (constructed in 1998).

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2]

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

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

(e) Cleaners and solvents usage, of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months and characterized as follows:
(1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100F); or
(2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20 degrees C (68F).

(f) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(g) Closed loop heating and cooling system.

(h) Infrared cure equipment.

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

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

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

(l) 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 form those activities would not be associated with any production process.

(m) 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.

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

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

(p) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]

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

(r) Other categories with emissions below insignificant thresholds (i.e. less than 5 pounds per hour particulates and NOx, less than 25 pounds per day CO, or less than 3 pounds per hour VOC).

(1) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-6A, using a cartridge dust collector for particulate control identified as 6A and exhausting inside the building. This unit consists of:

(A) Six (6) Robotic Polishing units with a maximum capacity of each Polishing Unit of 240 units per eight hour shift per polishing unit, with each unit weighing approximately 0.524 pounds. Four (4) of the polishing units were installed in 1986, one (1) unit, at an exemption level, was installed in 1998, and one (1) unit was installed in 2004. [326 IAC 6-3-2]

(B) One (1) Robotic Polishing Unit identified as ID PU-3 for polishing miscellaneous metal parts at a maximum capacity of 200 units per eight hour shift with each unit weighing approximately 1.749 pounds. Particulate emissions from this unit are controlled by the cartridge dust collector identified above as 6A. [326 IAC 6-3-2]

Note: The one (1) Robotic Polishing Unit identified as ID PU-3 has been relocated from dust collector 3 to dust collector 6A since issuance of the previous FESOP Renewal.

(2) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-8. This unit consists of:

(A) Six (6) Robotic Polishing units with a maximum capacity of each Polishing Unit of 240 units per eight hour shift per polishing unit, with each unit weighing approximately 0.524 pounds, using a cartridge dust collector for particulate control identified as 8 and exhausting inside the building. Four (4) of the polishing units were installed in 1986 and two (2) remaining units, at an exemption level, were installed in 1998. [326 IAC 6-3-2]

(B) One (1) Robotic Polishing Unit with a maximum capacity of 220 units per eight hour shift with each unit weighing approximately 0.95 pounds, using a cartridge dust collector for particulate control identified as 8 and exhausting inside the building. This unit was installed in 2002. [326 IAC 6-3-2]

(3) One (1) polishing station for polishing miscellaneous metal parts, identified as PU-1, using a cartridge dust collector for particulate control, identified as 1A and exhausting inside the building. This unit consists of:

Two (2) Hand Polisher Work Station Units with one (1) hand lathe for the correction of robotic polishing defects at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.309 pounds. These units will be installed in 2004. [326 IAC 6-3-2]

(4) One (1) Buffing Unit identified as ID PU-4 for polishing miscellaneous metal parts at a maximum capacity of 240 units per eight hour shift with each unit weighing approximately 0.524 pounds. Particulate emissions from this unit are controlled by a cartridge dust collector identified as 4 and exhaust inside the building. [326 IAC 6-3-2]

(5) One (1) 500 gallon liquid caustic compound removal tank and one (1) 500 gallon de-ionized water rinse tank to facilitate the removal of powder coat paint (non VOC).

(6) Two (2) paint rack burn off ovens for stripping paint racks. Oven one is identified as CU-13 and oven two is identified as CU-14. The process weight rate of coatings to be stripped off racks in each burn off oven, CU-13 and CU-14, is less than one hundred (100) pounds per hour. Each paint rack burn off oven is natural gas fired with a maximum heat input capacity of 0.95 million Btu per hour for combined total heat input capacity of 1.9 million Btu per hour. Oven CU-13 and Oven CU-14 exhaust to Stack/Vent SV-15. Installed in 2005. [326 IAC 4-2] [326 IAC 9]

(7) Powder coating operation for coating miscellaneous metal parts, consisting of three (3) spray booths, identified as PB-1, PB-2 and PB-3, with a total maximum surface coating capacity of ten (10) pounds of powder coating per hour. Particulate emissions from this operation are controlled by a dust collector exhausting inside the building. This operation is also equipped with one (1) natural gas fired dry off oven identified as ID CU-10 with a maximum heat input rate of 1.0 million Btu per hour and exhausting through stack ID 22; and two (2) powder coating natural gas fired cure ovens identified as ID CU-11 and CU-12 each with a maximum heat input rate of 2.5 million Btu per hour and each exhausting through stacks ID 23 and 24, respectively. [326 IAC 6-3-2]

(8) One (1) electrocoating operation, approved for construction in 2007, identified as ID EC-01, with a maximum coating rate of 256 units/hr, using no controls and exhausting to stack ID EC-01.

New Emission Units and Pollution Control Equipment Added to the Source

The source has requested that the following new emission unit, which is an insignificant activity with potential emissions at exempt levels (refer to Appendix A for calculations), be added to the permit:

(a) Any emissions unit, not regulated by a NESHAP, emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP or emitting greater than 1 pound per day but less than 12.5 pounds per day or 2.5 tons per year of a combination of HAPs.

(1) One (1) laser cutting operation for cutting standard steel, carbon steel, and stainless steel cutting a maximum of 50 inches per minute of metal.

Existing Approvals

Since the issuance of the FESOP Renewal (F097-16154-00050) on September 22, 2003, the source has constructed or has been operating under the following approvals as well:

(a) Administrative Amendment No. 097-19128-00050, issued on August 6, 2004;

(b) Significant Permit Modification No. 097-20272-00050, issued on April 22, 2005; and

(c) Minor Permit Revision No. 097-23387-00050, issued on February 23, 2007.

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.

The following terms and conditions from previous approvals have been revised in this FESOP Renewal:

(a) Condition D.1.1, Minor Permit Revision No. 097-23387-00050, issued on February 23, 2007

D.1.1 Hazardous Air Pollutants (HAPs) [326 IAC 2-8]

The Permittee shall comply as follows:

(a) The total usage of any single hazardous air pollutant (HAP) at F-Systems custom built solid lubricant application booth (SL-01), including HAP usage for clean-up, shall be less than 9.0 tons per twelve (12) consecutive month period with

compliance determined at the end of each month. Compliance with this condition shall limit the source-wide potential to emit a single HAP to less than 10 tons per twelve (12) consecutive month period.

(b) The total usage of the combined HAPs at F-Systems custom built solid lubricant application booth (SL-01), including combined HAP usage for clean-up, shall be less than 24 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this condition shall limit the source-wide potential to emit total HAPs to less than 25 tons per twelve (12) consecutive month period.

(c) The total usage of the combined HAPs for the electrocoating operation identified as ID EC-01, including combined HAP usage for clean up, shall be less than four-tenths (0.4) tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this condition shall limit the source wide potential to emit combined total HAPs to less than twenty five (25) tons per twelve (12) consecutive month period.

Compliance with these limitations shall make the requirements of 326 IAC 2-7 (Part 70) not applicable to the source.

Reason revised: The source has opted to remove the HAP limit on the electrocoating operation and lower the combined HAP limit for the F-Systems custom built solid lubricant application booth (SL-01) so that the source-wide potential to emit of combined HAP will remain at less than 25 tons per year.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Marion County

Pollutant	Designation
SO_2	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11th Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O_3	Attainment effective November 8, 2007, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
$PM_{2.5}$	Basic Nonattainment effective April 5, 2005.
NO_2	Cannot be classified or better than national standards.

Pollutant	Designation
Pb	Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated.
[1]Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour designation was revoked effective June 15, 2005.	

(a) Ozone Standards

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

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

(3) 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. Marion 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
Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. On May 8th, 2008, U.S. EPA promulgated specific New Source Review rules for PM2.5 emissions, and the effective date of these rules was July 15th, 2008. Therefore, direct PM2.5 and SO_2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

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

(d) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Nonattainment New Source Review applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	85.89
PM10	86.45
PM2.5	86.45
SO_2	0.06
VOC	68.25
CO	8.15
NO_x	9.70

HAPs	tons/year
Chromium	Negl.
Xylene	28.93
Toluene	8.13
Manganese	Negl.
Glycol Ethers	27.50
Formaldehyde	0.44
Hexane	0.17
Total	65.17

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

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is still equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. However, the source has agreed to limit their single HAP emissions and total HAP emissions below the Title V thresholds. Therefore, the source will be issued a FESOP Renewal.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not reported
PM10	Not reported
PM2.5	Not reported
SO_2	0.0
VOC	6.0
CO	Not reported
NO_2	1.0
HAP	Not reported

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.

Operation/Unit ID	Potential To Emit (tons/year)							
Process/emission unit	**PM**	**PM10**	**PM2.5**	**SO_2**	**VOC**	**CO**	**NO_x**	**HAPs**
Surface Coating Operation (F-Systems Application Booth ID SL-01)	0.50	0.50	0.50	0.0	<2.74(1)	0.0	0.0	9.0 (single) 23.7 (total)
Chromium Electroplating (Single Hoist Line ID SHL-5 & Dual Hoist Line ID DHL-13)	8.1E-04	8.1E-04	8.1E-04	0.0	0.0	0.0	0.0	3.87E-04 (single and total)
Polishing Units (PU-1*, PU-3*, PU-4*, PU-6A*, PU-6B, and PU-8*)	73.33	73.33	73.33	0.0	0.0	0.0	0.0	0.0
Powder Coating Operation (PB-01, PB-02, and PB-03)*	2.19	2.19	2.19	0.0	0.39	0.0	0.0	0.15 (single) 0.15 (total)
Laser Cutting Operation*	0.19	0.19	0.19	0.0	0.0	0.0	0.0	0.038 (single) 0.062 (total)
Electrocoating (EC-01)*	0.0	0.0	0.0	0.0	2.53	0.0	0.0	<0.79 (single) < 0.83 (total)
Natural Gas Combustion (CU-1, CU-2, CU-7, CU-10, CU-11, CU-12, CU-13, CU-14, Cogeneration Unit, Microturbine, Curing Oven)*	0.18	0.74	0.74	0.06	0.53	8.15	9.70	0.17 (single) 0.18 (total)
Total	85.89**	86.45	86.45	0.06	<6.19	8.15	9.70	<10.0 (single) <25.0 (total)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10/25
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA

* Denotes insignificant activities.

** The actual emissions are less than 10 ton/yr, thus 326 IAC 6.5-1-2 does not apply.

Notes: (1) The F-Systems application booth (ID SL-01) currently has a VOC limit on actual emissions of less than 15 lbs/day to render the requirements of 326 IAC 8-2-9 not applicable. This is equivalent to being limited to less than 2.74 tons per year (15 lbs/day x 365 days/yr x 1 ton/2000 lbs).

Federal Rule Applicability

(a) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40c through 60.48c, Subpart Dc, are not included in the permit for the two (2) boilers (ID CU-1 and CU-2) each constructed in 1986 and rated at 5.0 MMBtu because each boiler's capacity is less than the rule applicability threshold of 10 MMBtu per hour.

(b) The Single Hoist Line (SHL-5; West Chrome Tank) and Dual Hoist Line (DHL-13; East Chrome Tank) are still subject to the National Emission Standards for Hazardous Air Pollutants for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks (40 CFR Part 63, Subpart N), which is incorporated by reference as 326 IAC 20-8. The compliance date for West Chrome Tank and East Chrome Tank, which are existing decorative chromium electroplating tanks, was January 25, 1996. The emission units subject to this rule include the following:

(1) One (1) Single Hoist Line decorative chromium electroplating line, identified as ID SHL-5, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as West Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, West Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 5.

(2) One (1) Dual Hoist Line decorative chromium electroplating line, identified as ID DHL-13, constructed in 1986, and consisting of one (1) chromium electroplating tank, identified as East Chrome Tank, controlled by a chemical wetting agent with surface tension of the tank bath not exceeding, at any time during operation of the tank, 45 dynes per centimeter when using a stalagmometer to measure surface tension and 35 dynes per centimeter when using a tensiometer to measure surface tension. Additionally, East Chrome Tank emissions are directed to a packed bed scrubber at 4300 actual cubic feet per minute and exhausting through stack ID 16.

Non applicable portions of the NESHAP will not be included in the permit. West Chrome Tank and East Chrome Tank are subject to the following portions of Subpart N.

(1) 40 CFR 63.340.
(2) 40 CFR 63.341
(3) 40 CFR 63.342(a)
(4) 40 CFR 63.342(b)(1)
(5) 40 CFR 63.342(d)
(6) 40 CFR 63.342(f)(1), (f)(2), (f)(3)(i)(A), (f)(3)(i)(B), (f)(3)(i)(D), (f)(3)(i)(E), (f)(3)(ii)-(vi)
(7) 40 CFR 63.342(g)
(8) Table 1 to 40 CFR 63.342
(9) 40 CFR 63.343(a)(1)(i), (a)(3)
(10) 40 CFR 63.343(b)(1), (b)(2)
(11) 40 CFR 63.343(c)(5)
(12) 40 CFR 63.344(a)
(13) 40 CFR 63.344(b)(1)
(14) 40 CFR 63.345(a)
(15) 40 CFR 63.345(b)(1) – (4) and (5)(i)
(16) 40 CFR 63.346(a)
(17) 40 CFR 63.346(b)(1) – (11), (13), (15), and (16)
(18) 40 CFR 63.346(c)
(19) 40 CFR 63.347(a)
(20) 40 CFR 63.347(b)
(21) 40 CFR 63.347(c)(1)(i) – (v) and (ix)
(22) 40 CFR 63.347(d)
(23) 40 CFR 63.347(e)
(24) 40 CFR 63.347(f)

(25) 40 CFR 63.347(h)
(26) 40 CFR 63.348
(27) Table 1 to Subpart N

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63, Subpart N.

Note that both Chromium electroplating West Chrome Tank and East Chrome Tank are controlled by a chemical wetting agent with surface tension of the tank bath not exceeding 45 dynes per centimeter at any time during operation of the tank. Additionally, both tanks are directed to a packed bed scrubber. However, the source has been complying with the NESHAP through the use of the wetting agent so that the scrubber does not need to be operated at all times to comply with the standards in 40 CFR 63.342(d) but may be operated at the Permittee's discretion as permitted in the original FESOP 097-6983-00050, issued on June 23, 1998. Therefore the compliance monitoring requirements for packed bed scrubber systems under 40 CFR 63.343(c)(2) have not been included with the applicable requirements of Subpart N.

Also note that although it was not required, a performance test for West Chrome Tank and East Chrome Tank (formerly tanks #20 and # 58) was performed on January 30, 1996 to determine if the tanks would be in compliance with the rule using the packed bed scrubber to comply. During the test, it was determined that the total chromium concentration of gas exhausted through stacks ID # 5 and 16, using Method 306, Appendix A of 40 CFR 63, was 0.0022 mg/dscm. The source is not required to further test these tanks unless IDEM requires further testing to determine if the tanks are in compliance.

(c) The requirements of the National Emission Standards for Hazardous Air Pollutants for Halogenated Solvent Cleaning (40 CFR 63.460 – 63.471, Subpart T), which is incorporated by reference as 326 IAC 20-6, are not included in the permit for the parts degreasing operation that includes parts washing solvent with usage less than 145 gallons, as an insignificant activity. 40 CFR 63, Subpart T applies to degreasing operations using one of six listed halogenated solvents, or any combination of the solvents in a concentration greater than 5 percent by weight, as a cleaning or drying agent. The source uses parts washing solvent which contains halogenated solvents in concentrations less than 5 percent by weight (maximum of 1%); therefore the requirements of Subpart T are not included in the permit.

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, Subpart HHHHHH are not included in the permit for the spray booths. This subpart applies to paint stripping operations that involve the use of chemical strippers that contain methylene chloride (MeCl), autobody refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations, and spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd). This facility spray paints miscellaneous metal parts in the F-Systems custom built solid lubricant application booth (ID SL-01), and does not use coatings containing the identified HAPs.

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations (40 CFR Part 63, Subpart WWWWWW) are not included in the permit for the one (1) polishing station, identified as PU-6B, consisting of twenty seven (28) Hand Polisher Work Station Units and one (1) Robotic Polishing Unit, one (1) polishing station, identified as PU-6A, consisting of six (6) Robotic Polishing units, one (1) Robotic Polishing Unit identified as ID PU-3, one (1)

polishing station, identified as PU-8, consisting of seven (7) Robotic Polishing units, one (1) polishing station for polishing miscellaneous metal parts, identified as PU-1, consisting of two (2) Hand Polisher Work Station Units and one (1) hand lathe, and one (1) Buffing Unit identified as ID PU-4 because they do not emit any of the plating and polishing metal HAPs. The requirements of Subpart WWWWWW are not included for the Single Hoist Line (SHL-5; Tank # 20) and Dual Hoist Line (DHL-13; Tank # 58) because they are chromium electroplating operations.

(f) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source. Generally, such requirements apply to a Part 70 source that involves a pollutant-specific emissions unit (PSEU), as defined in 40 CFR 64.1, which meets the following criteria:

(1) the unit is subject to an emission limitation or standard for an applicable regulated air pollutant,

(2) the unit uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard, and

(3) the unit has a potential to emit before controls equal to or greater than the applicable Part 70 major source threshold for the regulated pollutant.

As a FESOP source, this source has accepted federally enforceable limits such that the requirements of 326 IAC 2-7 (Part 70) do not apply. Therefore, the requirements of 40 CFR 64, Compliance Assurance Monitoring, are not applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-1.1-5 (Nonattainment New Source Review)

This existing source is not a major stationary source, under Nonattainment New Source Review (326 IAC 2-1.1-5), because the potential to emit PM2.5 and SO_2 are each less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply.

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

This existing stationary source is not major for PSD because the emissions of each attainment criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.

326 IAC 2-4.1-1 (New Source Toxics Control)

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the potential to emit (PTE) 10 tons per year of any HAP or 25 tons per year of any combination of HAPs, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). This source is not subject to 326 IAC 2-4.1-1 (New Source Toxics Control) because it will limit source-wide single HAP emissions to less than 10 tons per year and total HAP emissions to less than 25 tons per year.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte counties, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year.

326 IAC 2-8-4 (FESOP)

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the source shall comply as follows:

(a) The total usage of any single hazardous air pollutant (HAP) at the F-Systems custom built solid lubricant application booth (SL-01), including HAP usage for clean-up, shall not exceed 9.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total usage of combined HAPs at the F-Systems custom built solid lubricant application booth (SL-01), including combined HAP usage for clean-up, shall not exceed 23.7 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above limits, combined with the potential to emit of single and combined HAPs from the other emission units at this source, shall limit the source wide potential to emit of any single HAP to less than ten (10) tons per twelve (12) consecutive month period and the source wide potential to emit of combined total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7 (Part 70) are not applicable to the source.

326 IAC 5-1 (Opacity Limitations)

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

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

326 IAC 6.5-1-2 (Particulate Emission Limitations)

This source is not subject to the requirements of 326 IAC 6.5-1-2 because although it is located in Marion County, the potential particulate emissions are less than 100 tons per year and actual particulate emissions are less than 10 tons per year (see Appendix A, page 1). The source is required to operate the dry filters for the F-Systems custom built solid lubricant application booth (SL-01) and the baghouses for the hand polishing units of the one(1) polishing station, PU-6B, and the one (1) polishing station, PU-8, at all times these units are in operation in order to comply with the particulate limits pursuant to 326 IAC 6-3-2. This requirement ensures that actual emissions do not exceed 10 tons per year.

326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. 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).

State Rule Applicability – Individual Facilities

326 IAC 4-2 (Incinerators)

The two (2) paint rack burn off ovens CU-13 and CU-14 are subject to this rule because they meet the definition of an incinerator pursuant to 326 IAC 1-2-34. Pursuant to 326 IAC 4-2-2, Oven CU-13 and Oven CU-14 shall each:

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

(b) be equipped with a primary burner;

(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);

(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 at standard conditions corrected to fifty percent (50%) excess air;

(f) if any of the above requirements (a) through (e) are not met, then the owner or operator shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

(g) The incinerator is exempt from requirement (e) if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P, State Implementation Plan for Indiana.

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

The two (2) natural gas fired boilers (ID Nos. CU-1 and CU-2; each constructed in 1990), each with a maximum heat input capacity rating of 5.0 MMBtu per hour, are subject to the particulate matter limitations of 326 IAC 6-2-4. Pursuant to this rule, particulate emissions from indirect heating facilities constructed after September 21, 1983, shall be limited by the following equation:

$Pt = 1.09/Q^{0.26}$

where: Pt = maximum allowable particulate matter (PM) emitted per MMBtu heat input
Q = total source maximum operation capacity rating = 10.0 MMBtu/hr

$Pt = 1.09/10.0^{0.26} = 0.60$ lbs PM/MMBtu

Based on the calculations included in Appendix A, the boilers are in compliance with this limit.

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

This rule applies to facilities located anywhere in the state that were constructed after July 1, 1990, which have actual volatile organic compound (VOC) emissions of greater than fifteen (15) pounds per day before add-on controls, and which are not otherwise regulated by another provision of Article 8.

(a) The F-Systems custom built solid lubricant application booth (ID SL-01) was constructed in 1998 and has actual VOC emissions greater than fifteen (15) pounds per day. The source has opted to limit actual VOC emissions from the F-Systems custom built solid lubricant application booth (ID SL-01) to less than fifteen (15) pounds per day. Therefore, rule 326 IAC 8-2-9 is not applicable to the F-Systems custom built solid lubricant application booth (ID SL-01). The source shall maintain records of daily coating material usage to demonstrate compliance with this limitation.

(b) The electrocoating operation, constructed in 2007, has potential VOC emissions of 13.84 lbs per day and 2.53 tons per year (See TSD Appendix A Page 8 of 10). Therefore the actual VOC emissions are less than 15 lbs per day. Therefore, 326 IAC 8-2-9 does not apply to this unit.

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

The source maintains a cold cleaning parts washer with capacity of less than 145 gallons (listed under insignificant activities) and is subject to the requirements of this rule since the facility was

constructed after January 1, 1980. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the Permittee shall ensure that the following requirements are met for the degreasing operation:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

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

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The requirements of this rule apply to cold cleaner degreasers without remote solvent reservoirs that existed as of July 1, 1990 and are located in a specified county; or the cleaning facility was constructed after July 1, 1990 and is located anywhere in the state. Although this source is located in Marion County (a listed county), the degreaser is not subject to the applicable rule requirements since it is equipped with a remote solvent reservoir.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This rule applies to sources existing as of January 1, 1980, located in Lake and Marion Counties, as well as to facilities commencing operation after October 7, 1974 and prior to January 1, 1980 that are located anywhere in the state, with potential VOC emissions of 100 tons per year or more, and not regulated by any other provision of Article 8. This source is located in Marion County and has potential emissions of VOC less than 100 tons per year. Therefore, this rule does not apply to this source.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The two (2) paint rack burn off ovens CU-13 and CU-14 are subject to this rule because they are sources of CO emissions which commenced operation after March 21, 1972 and an emission limit has been established in 326 IAC 9-1-2. Pursuant to 326 IAC 9-1-2(a)(3), the source shall not operate a refuse incinerator or refuse burning equipment (ovens CU-13 and CU-14) unless the waste gas stream is burned in one (1) of the following:

(a) Direct-flame afterburner.

(b) Secondary chamber.

Compliance Determination and Monitoring 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.

There are no compliance determination requirements applicable to this source.

Compliance testing is not required for the coating operation since the coating material usage at the coating operation (ID SL-01; SV 25) and related VOC and volatile organic HAP emissions assume that VOC and HAP input are equal to VOC and HAP emitted from the coating operation.

Testing is also not required for the powder coating operations (PB-1, PB-2, and PB-3), and polishing units (PU-6A, PU-6B, PU-1, PU-3, PU-4, and PU-8) since all exhaust inside the building and are controlled by dust collectors with emissions after control well below the allowable particulate emission rate.

Decorative chromium electroplating operations (IDs SHL-5 and DHL-13) are not required to perform a compliance test for chromium emissions according to 40 CFR 63.343 (b)(2) as long as the operation complies with the applicable surface tension limit of 40 CFR 63.342(d)(2). The source is required to show compliance with the chromium NESHAP through monitoring of surface tension.

A performance test demonstrating initial compliance for West Chrome Tank and East Chrome Tank (formerly tanks #20 and # 58, IDs SHL-5 and DHL-13) was performed on January 30, 1996. During the initial performance test conducted on January 30, 1996, it was determined that the total chromium concentration of each stack ID # 5 and 16, using Method 306, Appendix A of 40 CFR 63, was 0.0022 mg/dscm.

The compliance monitoring requirements applicable to this source are as follows:

(a) F-Systems application booth, ID SL-01:

Control	Parameter	Frequency	Range	Excursions and Exceedances
Dry Filters	Visible Emissions	Daily when in operation	Normal - Abnormal	Response Steps
	Overspray	Monthly Inspections	Noticeble Change	Response Steps

These monitoring conditions are necessary because the dry filters for the F-Systems custom built solid lubricant application booth (ID SL-01) must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes).

(b) The one (1) Single Hoist Line decorative chromium electroplating line, identified as ID SHL-5, and the one (1) Dual Hoist Line decorative chromium electroplating line, identified as ID DHL-13, will comply with the applicable compliance monitoring requirements pursuant to the NESHAP for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks (40 CFR Part 63, Subpart N).

Recommendation

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

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

An application for the purposes of this review was received on December 21, 2007. Additional information was received on July 25, 2008.

Conclusion

The operation of this stationary source relating to the operation of surface coating of miscellaneous metal parts with powders, decorative chromium electroplating and metal trimming and stamping of architectural hardware products shall be subject to the conditions of the attached FESOP Renewal No. F097-25775-00050.

Appendix A: Emission Calculations

Company Name: Ingersoll Rand Von Duprin
Address City IN Zip: 2720 Tobey Drive, Indianapolis, Indiana 46219
Permit No.: F097-25775-00050
Reviewer: ERG/TE

Uncontrolled Potential Emissions (tons/year)

	Emissions Generating Activity							
Pollutant	Chromium Electroplating	Polishing Units (PU 1, PU 3, PU 4, PU 6A, PU 6B and PU 8)	Surface Coating Operation ID SL-01	Powder Coating Operation ID PB-01, PB-02, PB-03	Laser Cutting Operation	Electrocoating (EC-01)	Natural Gas Combustion	**TOTAL**
PM	8.1E-04	73.33	10.00	2.19	0.19	0.00	0.18	85.89
PM10	8.1E-04	73.33	10.00	2.19	0.19	0.00	0.74	86.45
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06
NOx	0.00	0.00	0.00	0.00	0.00	0.00	9.70	9.70
VOC	0.00	0.00	64.80	0.39	0.00	2.53	0.53	68.25
CO	0.00	0.00	0.00	0.00	0.00	0.00	8.15	8.15
total HAPs	3.9E-04	0.00	64.00	0.15	6.2E-02	0.83	0.18	65.23
worst case single HAP	3.9E-04 (Chromium)	0.00	28.90 (Xylene)	0.15 (Toluene)	3.8E-02 (Chromium)	0.79 (Glycol Ethers)	0.17 (Hexane)	28.93 (Xylene)

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

Controlled Potential Emissions (tons/year)

	Emissions Generating Activity							
Pollutant	Chromium Electroplating	**Polishing Units (PU 1, PU 3, PU 4, PU 6A, PU 6B and PU 8)**	**Surface Coating Operation ID SL-01**	**Powder Coating Operation ID PB-01, PB-02, PB-03**	**Laser Cutting Operation**	**Electrocoating (EC-01)**	**Natural Gas Combustion**	TOTAL
PM	8.1E-04	0.73	0.50	0.02	0.19	0.00	0.18	1.63
PM10	8.1E-04	0.73	0.50	0.02	0.19	0.00	0.74	2.19
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06
NOx	0.00	0.00	0.00	0.00	0.00	0.00	9.70	9.70
VOC	0.00	0.00	2.74	0.39	0.00	2.53	0.53	6.19
CO	0.00	0.00	0.00	0.00	0.00	0.00	8.15	8.15
total HAPs	3.9E-04	0.00	23.70	0.15	6.2E-02	0.83	0.18	24.93
worst case single HAP	3.9E-04 (Chromium)	0.00	9.0 (Xylene)	0.15 (Toluene)	3.8E-02 (Chromium)	0.79 (Glycol Ethers)	0.17 (Hexane)	(Xylene) < 10

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

Appendix A: Emissions Calculations
Decorative Chromium Electroplating with Fume Supressant

Company Name: **Ingersoll Rand Von Duprin**
Address City IN Zip: **2720 Tobey Drive, Indianapolis, Indiana 46219**
Permit No.: **F097-25775-00050**
Reviewer: **ERG/TE**
Date: **November 7, 2008**

Decorative Chromium Electroplating
Single Hoist Line (SHL-5; Tank 20)
Dual Hoist Line (DHL-13; Tank 58)

Pollutant	AP-42 Emission Factor (gr/dscf) *	Total Flow (dscfm) (each tank)	Total Emissions from 1 tank (lb/hr)	Total Emissions from 1 tank (tons/yr)	Equivalent Emissions in mg/dscm
PM/PM10	2.5E-06	4300	9.2E-05	4.0E-04	N/A
Chromium Compound	1.20E-06	4300	4.4E-05	1.9E-04	2.75E-03

	lb/hr	tons/yr
Total PM/PM10 emissions from both tanks:	1.84E-04	8.07E-04
Total Chromium emissions from both tanks:	8.85E-05	3.87E-04

Actual chromium emissions based on 1996 stack test = 2.20E-03 mg/dscm (for each tank/stack including use of fume suppresent. Wet scrubber(s) are in place as well but no efficiency is credited)

Maximum potential chromium emissions based on AP-42 emission factor: 2.75E-03 mg/dscm

Methodology:

Total Chromium / Particulate emissions (lb/hr) = AP-42 emission factor (gr/dscf) x flowrate (dscfm) x 60 (mins/1 hr) / 7000 (grain/lb)

Conversion to mg/dscm = AP-42 emission factor (gr/dscf) x 2290 (conversion factor)

* From AP-42 Table 12.20-1, 7/96 (AP-42 emission factor gives no credit for use of a scrubber); however, scrubber is in place on each tank.

Appendix A: Emissions Calculations
Polishing Units

Company Name: **Ingersoll Rand Von Duprin**
Address City IN Zip: **2720 Tobey Drive, Indianapolis, Indiana 46219**
Permit No.: **F097-25775-00050**
Reviewer: **ERG/TE**
Date: **November 7, 2008**

Polishing Unit (PU 1) (vents indoors)

2	hand polishing units	
8	hour shift capacity of each Robotic polishig Unit	
240	units weighing	
0.309	pounds per unit	
6.5	pounds dust (1) collected in	2520 operating hours
99.00%	baghouse efficiency	

Controlled by Torit Baghouse 1A

Maximum process rate (lb/hr) 18.54

		Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
PM/PM10 emission factor (lb/ton)	0.562	5.21E-03	0.023	5.21E-05	2.28E-04
VOC emission factor (%)	0.00	0.00	0.00	0.00	0.00

(1) PU 1 has total process weight rate of 9.27 lb/hr for each unit and total of 6.5 lbs dust is collected for each unit.
PM/PM10 emission factor (lb/ton) = 6.5 lbs (dust collected) /0.99 (baghouse efficiency) / (9.27 lb/hr x 2520 actual operating hours) / 2000 (lb/ton)

Polishing Unit (PU 3) (vents indoors)

1	robotic polishing unit	
8	hour shift capacity of each Robotic polishig Unit	
200	units weighing	
1.749	pounds per unit	
6533	pounds dust (2) collected in	2520 operating hours
99.00%	baghouse efficiency	

Controlled by Torit Baghouse 6A

Maximum process rate (lb/hr) 43.725

		Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
PM/PM10 emission factor (lb/ton)	119.778	2.62	11.47	0.026	0.115
VOC emission factor (%)	0.00	0.00	0.00	0.00	0.00

(2) PU 3 has total process weight rate of 43.73 lb/hr and total of 6533 lbs dust is collected (this is based on dust collected from previous baghouse #3 controlling this operation).
PM/PM10 emission factor (lb/ton) = 6533 lbs (dust collected) /0.99 (baghouse efficiency) / (43.73 lb/hr x 2520 actual operating hours) / 2000 (lb/ton)

Polishing Unit (PU 4) (vents indoors)

1	buffing unit	
8	hour shift capacity of each Robotic polishig Unit	
240	units weighing	
0.524	pounds per unit	
	pounds dust (1) collected in	1920 operating hours
99.00%	baghouse efficiency	

Controlled by Torit Baghouse 4

Maximum process rate (lb/hr) 15.72

		Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
	**				
PM/PM10 emission factor (lb/ton)	42.090	0.33	1.45	0.003	0.014
VOC emission factor (%)	0.00	0.00	0.00	0.00	0.00

** PM/PM10 emission factor (lb/ton) = PM emission factor of 42.09 for PU 4 is provided by the source and is not based on the amount of dust collected.

Appendix A: Emissions Calculations
Polishing Units
Company Name: IR Von Duprin
Address City IN Zip: 2720 Tobey Drive, Indianapolis, Indiana 46219
Permit No.: F097-25775-00050
Reviewer: ERG/TE
Date: 20-Aug-08

Polishing Unit (PU 6A) (vents indoors)

6	polishing units	
8	hour shift capacity of each Robotic polishig Unit	
240	units weighing	
0.524	pounds per unit	
Controlled by Torit Baghouse 6A	23270	pounds dust (4) collected in 1920 operating hours
	99.00%	baghouse efficiency
Combined Maximum process rate for units 6A, 6B and 8 (lb/hr)	664.195	
Maximum process rate for unit 6A	94.32	

		Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
PM/PM10 emission factor (lb/ton)	42.094	1.99	8.69	0.020	0.087
VOC emission factor (%)	0.00	0.00	0.00	0.00	0.00

Polishing Unit (PU 6B) (vents indoors)

28	hand polishing units	
1	robotic Polishing unit	
8	hour shift capacity of each polishing Unit	
240	units weighing	
0.524	pounds per unit for hand polishing units	
0.309	pounds per unit for Robotic polishing unit	
Controlled by Torit Baghouse 6B	23270	pounds dust (4) collected in 1920 operating hours
	99.00%	baghouse efficiency
Combined Maximum process rate for units 6A, 6B and 8(lb/hr)	664.195	
Maximum process rate for unit 6B (Hand) (lb/hr)	440.16	
Maximum process rate for unit 6B (Robotic) (lb/hr)	9.27	

		Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
PM/PM10 emission factor (lb/ton) Hand	42.094	9.26	40.58	0.093	0.406
PM/PM10 emission factor (lb/ton) Robotic (5)	0.562	2.6E-03	0.01	0.000	0.000
Total PM/PM10 emissions		9.27	40.59	0.09	0.41
VOC emission factor (%)	0.00	0.00	0.00	0.00	0.00

Polishing Unit (PU 8) (vents indoors)

6	robotic polishing units	
8	hour shift capacity of each Robotic polishig Unit	
240	units weighing	
0.524	pounds per unit	
1	buffing unit	
8	hour shift capacity of each polishing Unit	
220	units weighing	
0.95	pounds per unit	
Controlled by Torit Baghouse 8	23270	pounds dust (4) collected in 1920 operating hours
	99.00%	baghouse efficiency
Combined Maximum process rate for units 6A, 6B and 8 (lb/hr)	664.195	
Maximum process rate for unit 8 (lb/hr)	120.445	

		Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
PM/PM10 emission factor (lb/ton)	42.094	2.54	11.10	0.025	0.111
VOC emission factor (%)	0.00	0.00	0.00	0.00	0.00

(4) Polishing unit ID 6A, 6B, and 8 had a previous total process rate of 581.66 pounds per hour & a total for all 3 baghouses collected was 23270 pounds
PM/PM10 emission factor (lb/ton) = 23270 lbs (dust collected) /0.99 (baghouse efficiency) / (581.66 lb/hr x 1920 actual operating hours) / 2000 (lb/ton)
(5) 0.562 lbs/ton was the previous emission factor established for Robotic polishing in PU-1

Appendix A: Emission Calculations
HAP Emissions
Surface Coating Operations

Company Name: **Ingersoll Rand Von Duprin**
Address City IN Zip: **2720 Tobey Drive, Indianapolis, Indiana 46219**
Permit No.: **F097-25775-00050**
Reviewer: **ERG/TE**
Date: **November 7, 2008**

This table summarizes potential and limited VOC and HAP emissions for the surface coating operations.

Emission Unit Suface Coating Booths	Maximum coating Capacity gal/hr	Potential PM/PM10 Emissions ton/year	Potential VOC Emissions ton/year	Potential HAP Emissions ton/year *	Limited PM/PM10 Emissions ton/year **	Limited VOC Emissions ton/year ***	Limited HAP Emissions ton/year
SL-01 (F-Systems custom built solid lubricant application booth)	4.69	10.00	64.80	64.00	0.50	<2.74	9.0 for single HAP 23.7 for total HAPs

Notes:

VOC and HAPs emissions from surface coating booths are taken directly from the original FESOP (123-6530-00007), issued on October 6, 1997.

These emissions are originally from units (SC-1 and SC-2) which were replaced by unit (SL-01) in 1998 through Administrative Amendment No. 097-9993-00050.

It is assumed that the emissions are same for this unit (SL-01) as the source did not provide any updated information.

* The five (5) worst case HAPs emitted from the surface coating operation are listed in the Technical Support Document (TSD). The single HAP with the greatest potential to emit is Xylene with an uncontrolled potential to emit of 28.9 tons per year.

** PM and PM10 emissions are controlled by dry filters with control efficiency of 95%

*** VOC emissions are limited to less than 15 pounds per day to render the requirements of 326 IAC 8-2-9 not applicable. This is equivalent to being limited to less than 2.74 tons per year (15 lbs/day x 365 days/yr x 1 ton/2000 lbs).

	Appendix A: Powder Coating Paint Booths			
	Company Name:	**Ingersoll Rand Von Duprin**		
	Address City IN Zip:	**2720 Tobey Drive, Indianapolis, Indiana**		
	Permit No.:	**F097-25775-00050**		
	Reviewer:	**ERG/TE**		
	Date:	**November 7, 2008**		
Powdercoat Paint Booths (PB-01, PB-02 and PB-03)				
TYPE OF MATERIAL	LB/HR			
Powder Coating	10			
Emission Factor	**PM**	**PM10**	**VOC**	**Toluene**
% Emitted by weight	5.00%	5.00%	0.90%	0.35%
Potential Emissions before control, lb/hr	0.50	0.50	0.09	0.04
Potential Emissions before control, ton/year	2.19	2.19	0.39	0.15
Potential Emissions after control ton/yr	0.022	0.022	0.394	0.153
Notes:				
Emission factors are from the original FESOP 097-6983-00050, issued June 23, 1998.				
Methodology:				
Potential Emissions before control, lb/hr = Power Coating Usage (lb/hr) x EF (%) x 100				
Potential Emissions before control, ton/yr = Potential Emissions before control, lb/hr x 8,760 hr/yr / 2,000 lb/ton				
Potential Emissions after control, ton/yr = Potential Emissions before control, ton/yr x (1 - Control Efficiency)				

Appendix A: Laser Cutting Operation

Company Name: Ingersoll Rand Von Duprin
Address City IN Zip: 2720 Tobey Drive, Indianapolis, Indiana
Permit No.: F097-25775-00050
Reviewer: ERG/TE
Date: November 7, 2008

No. Stations	Metal Thickness Cut (in)	Metal Cutting (in/min)	Emission Factor (lb/1000 inches cut, 1" thick)	PM/PM10 Emissions (tons/yr)	wt% Manganese	Manganese Emissions (tons/yr)	wt% Nickel	Nickel Emissions (tons/yr)	wt% Chromium	Chromium Emissions (tons/yr)	Total HAP Emissions (tons/yr)
1	0.09	50	0.1622	0.19	2.00%	3.84E-03	10.50%	2.01E-02	20.00%	3.84E-02	6.23E-02

Notes:
Emissions were calculated using an emission factor for a similar operation at a facility in Indiana.

Metal Thickness Cut and Metal Cutting Rate were selected based on the maximum thickness of stainless steel cut at Von Duprin.

wt% Managese, Nickel and Chromium were selected as the stainless steel containing the greatest concentration of managese, nickel and chromium.

Methodology:
PM/PM10 Emissions (tons/yr) = No. Stations x Metal Thickness Cut (in) x Metal Cutting Rate (in/min) x Emission Factor (lb/1000 inches cut) x 60 min/hr x 8760 hrs/yr x 1 ton/2,000 lbs
Manganese Emissions (tons/yr) = PM/PM10 Emissions (tons/yr) x wt% Managnese
Nickel Emissions (tons/yr) = PM/PM10 Emissions (tons/yr) x wt% Nickel
Chromium Emissions (tons/yr) = PM/PM10 Emissions (tons/yr) x wt% Chromium

Appendix A: Emissions Calculations
VOC, Particulate and HAPs
From Electrocoating Operation

Company Name: Ingersoll Rand Von Duprin
Address City IN Zip: 2720 Tobey Drive, Indianapolis, Indiana
FESOP Renewal Number: F097-25775-00050
Reviewer: ERG/TE
Date: November 7, 2008

VOC and PM Emissions

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
NanoClad HSR	9.0	56.26%	0.3%	56.0%	24.0%	37.10%	0.000447	256.000	6.63	5.04	0.58	13.84	2.53	0.00	13.59	100%
State Potential Emissions			**Add worst case coating to all solvents**								**0.58**	**13.84**	**2.53**	**0.00**		

Notes: 0.000447 gal/unit x 256 unit/hour x 24 hour/day = 2.76 gal/day
Transfer efficiency is 100% because the surface coating is an electrocoating process which uses a dip tank.

Methodology:
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

HAPs Emissions

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Formaldehyde	Weight % Benzene	Weight % Hexane	Weight % Glycol Ethers	Weight % Methanol	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Benzene Emissions (ton/yr)	Hexane Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)	Methanol Emissions (ton/yr)	
NanoClad HSR	9.0	0.000447	256.00	0.61%	0.31%	0.00%	0.00%	0.00%	17.50%	0.00%	0.03	0.01	0.00	0.00	0.00	0.79	0.00	
Total State Potential Emissions											**0.03**	**0.01**	**0.00**	**0.00**	**0.00**	**0.79**	**0.00**	**Total HAPs** **0.83**

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler
Company Name: Ingersoll Rand Von Duprin
Address City IN Zip: 2720 Tobey Drive, Indianapolis, Indiana
Permit No.: F097-25775-00050
Reviewer: ERG/TE
Date: November 7, 2008

Unit	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
Orr & Sembower Boiler (CU-1)	5.0	43
Dunham Bush Boiler (CU-2)	5.0	43
Mullion Curing Oven (CU-7)	0.8	7
Powdercoat dry off oven (CU-10)	1.0	9
Powder coat curing oven (CU-11)	2.5	21
Powder coat curing oven (CU-12)	2.5	21
Cogeneration Unit (generator/water heater)	0.95	8
Microturbine	0.95	8
Curing oven for SL-01	2.00	17
Paint Rack Burn off oven CU-13	0.95	8
Paint Rack Burn off oven CU-14	0.95	8
	22.6	194.09

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.18	0.74	0.06	9.70	0.53	8.15

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

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

Emission factors are from AP 42, Chapter 1.4, Tables 1.4-1, and 1.4-2, SCC 1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03. (7/98)

Methodology:

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

See next page for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler
HAPs Emissions
Company Name: Ingersoll Rand Von Duprin
Address City IN Zip: 2720 Tobey Drive, Indianapolis, Indiana
Permit No.: F097-25775-00050
Reviewer: ERG/TE
Date: November 7, 2008

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	2.038E-04	1.165E-04	7.279E-03	1.747E-01	3.300E-04

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.852E-05	1.068E-04	1.359E-04	3.688E-05	2.038E-04

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.