INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: September 6, 2005

RE: Franklin Power Products / 081-20601-00056

FROM: Paul Dubenetzky
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, Room 1049, 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.dot 1/10/05

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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

Franklin Power Products / International Fuel Systems
751 International Drive
Franklin, Indiana 46131

(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 provision of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; and 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. ***This permit also addresses new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.***

Operation Permit No.: F081-20601-00056	
Issued by: Original Signed By: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 6, 2005 Expiration Date: September 6, 2010

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 diesel engine remanufacturing operation.

Authorized individual:	Plant Manager
Source Address:	751 International Drive, Franklin, Indiana 46131
Mailing Address:	400 Forsythe Street, Franklin, Indiana 46164
General Source Phone:	(317) 738-5632
SIC Code:	3519
Source Location Status:	Johnson County Nonattainment for Ozone under the 8-hour standard Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules, Minor Source, Section 112 of the Clean Air Act

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) paint spray booth, identified as PB#1, constructed in 2005, controlled by dry particulate filters, exhausting to a stack identified as SPB-1 and venting to atmosphere, capacity; 120 engines per day, 36,000 engines per year.

(b) Miscellaneous solvents and plant wide VOC containing material usage not covered elsewhere, identified as P001.

(c) Cold solvent degreasing, collectively identified as P002.

- (1) Five (5) oscillating cold solvent cleaners, identified as CC-1 – CC-5, installed in 2005, with a maximum capacity of one (1) gallon per day, each.
- (2) Six (6) cold solvent cleaning tanks, identified as CC-6 – CC-11, installed in 2005, with a maximum capacity of 0.4 gallon per day, each.
- (3) Six (6) cold solvent cleaning sinks with remote solvent reservoirs, identified as CC-12 – CC-17, installed in 2005, with a maximum capacity of 0.3 gallon per day, each.
- (4) Five (5) agitating cold solvent cleaners, identified as AAC-1 – AAC-5, installed in 2005, with a maximum capacity of 1.5 gallon per day, each.
- (5) One (1) dual stage cold solvent cleaner, identified as DDC-1, installed in 2005, with a maximum capacity of 0.5 gallon per day.
- (6) One (1) immersion cold solvent cleaner, identified as ICC-1, installed in 2005, with a maximum capacity of 0.2 gallon per day.

(7) Four (4) calibration fluid cold solvent cleaners, identified as CCC-1 – CCC-4, installed in 2005, with a maximum capacity of 0.5 gallon per day, each.

(d) Natural gas combustion fired combustions sources, collectively identified as P003.

(1) One (1) air make-up unit, installed in 2005, with a rated capacity of 10.40 million British thermal units per hour.
(2) One (1) Cambridge air make-up unit, installed in 2005, with a rated capacity of 3 million British thermal units per hour.
(3) Two (2) Thermadeck air make-up units, installed in 2005, with a rated capacity of 5.83 million British thermal units per hour, each.
(4) Three (3) air curtains, installed in 2005, with a rated capacity of 9.5 million British thermal units per hour, each.
(5) One (1) office boiler, installed in 2005, with a rated capacity of 0.64 million British thermal units per hour.
(6) Two (2) unit heaters, installed in 2005, with a rated capacity of 0.15 million British thermal units per hour, each.
(7) One (1) unit heater, installed in 2005, with a rated capacity of 0.06 million British thermal units per hour.
(8) One (1) break room furnace, installed in 2005, with a rated capacity of 0.25 million British thermal units per hour.
(9) One (1) training room furnace, installed in 2005, with a rated capacity of 0.11 million British thermal units per hour.
(10) One (1) office furnace, installed in 2005, with a rated capacity of 0.08 million British thermal units per hour.
(11) Four (4) infrared unit heaters, installed in 2005, with a rated capacity of 0.7 million British thermal units per hour, each.
(12) Three (3) infrared unit heaters, installed in 2005, with a rated capacity of 0.3 million British thermal units per hour.
(13) Twenty-five (25) space heaters, installed in 2005, with a rated capacity of 0.13 million British thermal units per hour, each.
(14) One (1) head washer, installed in 2005, with a rated capacity of 0.147 million British thermal units per hour.
(15) One (1) two stage conveyorized spray washer, installed in 2005, with a rated capacity of 1.10 million British thermal units per hour.
(16) Two (2) engine block washers (#1 and #2), installed in 2005, with a rated capacity of 0.225 million British thermal units per hour, each.
(17) One (1) Disa Goff hydropulse parts washer, installed in 2005, with a rated capacity of 0.5 million British thermal units per hour.
(18) One (1) Disa Goff tumble washer, installed in 2005, with a rated capacity of 0.3 million British thermal units per hour.
(19) One (1) Hotsy spray washer, installed in 2005, with a rated capacity of 0.687 million British thermal units per hour.
(20) One (1) head washer, installed in 2005, with a rated capacity of 0.2 million British thermal units per hour.
(21) One (1) pass through small parts washer, installed in 2005, with a rated capacity of 0.25 million British thermal units per hour.

(e) Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004 and individually known as E-1 – E-8, installed in 2005, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-8, and venting to atmosphere; combined capacity of 120 engines per day, 36,000 engines per year.

(f) Natural Gas Fired Burn-off Ovens with Afterburners, collectively identified as P005.

(1) Four (4) Large Burn-off Ovens, identified as O-1, O-2, O-10, and O-11, installed in 2005, each rated at 1.2 million British thermal units per hour, each equipped with afterburners rated at 1.2 million British thermal units per hour, individually exhausting to stacks P005-1, P005-2, P005-10, and P005-11 and venting to atmosphere, capacity; 4,000 pounds per hour of engine parts and 50 pounds per hour of oily residue, each.

(2) Five (5) Medium Burn-off Ovens, identified as O-5 through O-9, installed in 2005, each rated at 0.35 million British thermal units per hour, each equipped with afterburners rated at 0.35 million British thermal units per hour, individually exhausting to stacks P005-5 through P005-9 and venting to atmosphere, capacity; 2,500 pounds per hour of engine parts and 20 pounds per hour of oily residue, each.

(3) Two (2) Small Burn-off Ovens, identified as O-3 and O-4, installed in 2005, each rated at 0.2 million British thermal units per hour, each equipped with afterburners rated at 0.2 million British thermal units per hour, individually exhausting to stacks P005-3 and P005-4 and venting to atmosphere, capacity; 200 pounds per hour of engine parts and 7 pounds per hour of oily residue, each.

(g) Abrasive blasting, dust blow-off, and grinding, collectively identified as P006.

(1) Two (2) steel shot abrasive blasting facilities, identified as SSB#2 and SSB #8, installed in 2005, each equipped with one (1) of two (2) dust collectors, both exhausting into the building, capacity; 48,000 pounds of engine parts per day and 50 pounds of steel shot per day, each.

(2) One (1) steel shot abrasive blasting facilities, identified as SSB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 36,000 pounds of engine parts per day and 50 pounds of steel shot per day.

(3) One (1) steel shot abrasive blasting facilities, identified as SSB#3, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 3,600 pounds of engine parts per day and 25 pounds of steel shot per day.

(4) Three (3) steel shot abrasive blasting facilities, identified as SSB#4, SSB#5, and SSB#6, installed in 2005, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 16,000 pounds of engine parts per day and 20 pounds of steel shot per day, each.

(5) One (1) steel shot abrasive blasting facility, identified as SSB#7, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 4,800 pounds of engine parts per day and 20 pounds of steel shot per day.

(6) Six (6) pneumatic glass bead abrasive facilities, identified as GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, and GBB#9, installed in 2005, each equipped with one (1) of six (6) dust collectors, exhausting into the building, capacity; 1,200 pounds of engine parts per day, each.

(7) Three (3) pneumatic glass bead abrasive facilities, identified as GBB#1, GBB#2, and GBB#3, installed in 2005, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 600 pounds of engine parts per day, each.

(8) One (1) pneumatic abrasive sand blasting facility, identified as SB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 3,000 pounds of engine parts per day.

(9) Two (2) plastic bead abrasive blasting facilities, identified as PBB#1 and PBB#2, installed in 2005, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 720 pounds of engine parts per day, each.

(10) One (1) blow-off booth for dust removal, identified as BO#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 84,000 pounds of engine parts per day.

(11) One (1) grinding booth, identified as RB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 480 pounds of engine parts per day.

(h) Welding Operations, collectively known as P007, installed in 2005, with a maximum capacity or 250 pounds of electrode per day, total.

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, as defined in 326 IAC 2-7-1(21):

(a) Combustion related activities, including the following:
- (1) Propane or Liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
- (2) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hr, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hr.
- (3) Combustion source flame safety purging on startup.

(b) Fuel dispensing activities, including the following:
- (1) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity of less than or equal to 10,500 gallons.
- (2) A diesel fuel dispensing facility, having a storage capacity less than or equal to (10,000) gallons, and dispensing (3,500) gallons per day or less as follows:
  - (A) One (1) fixed roof cone tank, identified as T1 Diesel, installed in 2005, with a storage capacity of 500 gallons, and a maximum annual throughput of 6,000 gallons.
  - (B) One (1) fixed roof cone tank, identified as T2 Diesel, installed in 2005, with a storage capacity of 2,000 gallon, and a maximum annual throughput of 250,000 gallons.

(c) The following VOC and HAP storage containers:
- (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs equal to or less than 12,000 gallons.
- (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(d) Equipment used exclusively for the following: filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases.

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

(f) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(g) Cleaners and solvents characterized as follows:
(1) having a vapor pressure equal to or less than 2 kilo Pascals; 15mm Hg; or 0.3 psi measured at 38 degrees Centigrade (100 degrees Fahrenheit); or
(2) having a vapor pressure equal to or less than 0.7 kilo Pascals; 5mm Hg; or 0.1 psi measured at 20 degrees Centigrade (68 degrees Fahrenheit);
the use of which, for all cleaners and solvents combined, does not exceed 145 gallons per 12 months.

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

(i) Closed loop heating and cooling systems.

(j) Infared cure equipment.

(k) Solvent recycling systems with batch capacity less than or equal to 100 gallons.

(l) Water based activities, including the following:
(1) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
(2) Activities associated with the transportation and treatment of sanitary sewage, provided the discharge to the treatment plant is under the control of the owner or operator, that is, an on-site sewage treatment facility.
(3) Any operation using aqueous solutions containing less than 1% VOCs by weight of VOCs excluding HAPs.
(4) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
(5) Non-contact cooling tower systems with either of the following:
(A) Natural draft cooling towers not regulated under a NESHAP
(B) Forced and induced draft cooling tower systems not regulated under a NESHAP.
(6) Quenching operations used with heat treating processes

Oil, grease, or VOC content shall be determined by a test method acceptable to the department and the U.S. EPA.

(m) Repair activities, including the following:
(1) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
(2) Hest exchanger cleaning and repair.

(n) Trimmers that do not produce fugitive emissions and that are equipped with a dust collector or trim material recovery device such as a bag filter or cyclone.

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

(p) Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including the following: purging of gas lines.

(q) 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.

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

(s) Onsite fire and emergency response training approved by the department.

(t) Emergency generators as follows:
(1) Gasoline generators not exceeding 110 horsepower.
(2) Diesel generators not exceeding 1,600 horsepower.

(u) Other emergency equipment as follows: Stationary fire pumps.

(v) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 100 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking.

(w) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kilopascals measured at 39 degrees Centigrade).

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

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) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

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

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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.

B.2 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.3 Effective Date of the Permit [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

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

B.5 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5]

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

B.6 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4] [326 IAC 2-8]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 when prior to the start of operation, the following requirements are met:

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

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

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

B.7 Enforceability [326 IAC 2-8-6]

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.8 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.9 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.10 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.11 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 the "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.12 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.13 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.14 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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

(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, IDEM, OAQ may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.15 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 prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or

potential to emit. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.16 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 describes 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 No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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 the "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) 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.17 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 Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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 need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "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.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2] [326 IAC 8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) All requirements of these conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2. This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP 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 the "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.19 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 the "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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

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

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

(B) 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.

(2) If IDEM, OAQ upon receiving a timely and complete 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.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
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 needed to process the application.

B.20 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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.21 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without 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 emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to 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 increases and decreases in emissions in 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.22 Permit Revision 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.

B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-17-3-2] [IC13-30-3-1]

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.24 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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

The application which shall be submitted by the Permittee does require the certification by the "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.25 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.26 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

Emissions 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 [40 CFR 52 Subpart P][326 IAC 6-3-2]

(1) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 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.

(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. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);

(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.

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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 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 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 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.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "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 Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.10 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 Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the “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 the “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.11 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.12 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) of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.13 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.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will

adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

The ERP does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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

C.16 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.20 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee

documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.

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

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is

operating, except for time necessary to perform quality assurance and maintenance activities.

C.21 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 and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

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

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.23 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.

C.24 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

(e) The first report covered the period commencing on the date of issuance of the original FESOP and ended on the last day of the reporting period. All subsequent reporting periods shall be 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.26 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) One (1) paint spray booth, identified as PB#1, constructed in 2005, controlled by dry particulate filters, exhausting to a stack identified as SPB-1 and venting to atmosphere, capacity; 120 engines per day, 36,000 engines per year.

(b) Miscellaneous solvents and plant wide VOC containing material usage not covered elsewhere, identified as P001.

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

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

D.1.1 Particulate Matter (PM) [40 CFR 52, Subpart P]

Pursuant to 40 CFR 52, Subpart P, the allowable particulate emission rate from PM from the one (1) paint spray booth (PB#1), shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

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

Pursuant to 326 IAC 6-3-2(d), particulate from PB#1 shall be controlled by a dry particulate filter, and the Permittee shall operated the control device in accordance with the manufacturer's specifications.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator of PB#1.

D.1.4 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment of PB#1 during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

D.1.5 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 this facility and its control device.

Compliance Determination Requirements

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]

Compliance with the VOC content limitation contained in Condition D.1.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

D.1.7 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 particulate filters, weekly observations shall be made of the overspray from the one (1) paint spray booth stack SPB-1 while the booth is in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be a deviation of this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a deviation of this permit.

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

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

D.1.8 Record Keeping Requirements

(a) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in Condition D.1.3.

(1) The VOC content of each coating material and solvent used, less water.

(2) The amount of coating material and solvent used on monthly 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 month.

(4) The total VOC usage for each month; and

(5) The weight of the VOCs emitted for each compliance period.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

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

D.1.9 Reporting Requirements

There are no applicable reporting requirements.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(c) Cold solvent degreasing, collectively identified as P002.

(1) Five (5) oscillating cold solvent cleaners, identified as CC-1 – CC-5, installed in 2005, with a maximum capacity of one (1) gallon per day, each.
(2) Six (6) cold solvent cleaning tanks, identified as CC-6 – CC-11, installed in 2005, with a maximum capacity of 0.4 gallon per day, each.
(3) Six (6) cold solvent cleaning sinks with remote solvent reservoirs, identified as CC-12 – CC-17, installed in 2005, with a maximum capacity of 0.3 gallon per day, each.
(4) Five (5) agitating cold solvent cleaners, identified as AAC-1 – AAC-5, installed in 2005, with a maximum capacity of 1.5 gallon per day, each.
(5) One (1) dual stage cold solvent cleaner, identified as DDC-1, installed in 2005, with a maximum capacity of 0.5 gallon per day.
(6) One (1) immersion cold solvent cleaner, identified as ICC-1, installed in 2005, with a maximum capacity of 0.2 gallon per day.
(7) Four (4) calibration fluid cold solvent cleaners, identified as CCC-1 – CCC-4, installed in 2005, with a maximum capacity of 0.5 gallon per day, each.

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

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

D.2.1 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 Permittee shall:

(a) Equip the cleaner with a cover;

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

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

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

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

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

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius ($48.9^{O}C$) (one hundred twenty degrees Fahrenheit ($120^{O}F$)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.2.3 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 this facility and its control device.

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

D.2.4 Record Keeping Requirements

(a) The Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish VOC usage.

(1) The VOC and HAP content of the degreaser used.

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

(3) The volume weighted VOC and HAP content of the degreaser used for reach month; and

(4) The total VOC and HAP usage for each month.

(b) These records shall be maintained in accordance with Section C – General Record Keeping Requirements.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(d) Natural gas combustion fired combustions sources, collectively identified as P003.

(1) One (1) air make-up unit, installed in 2005, with a rated capacity of 10.40 million British thermal units per hour
(2) One (1) Cambridge air make-up unit, installed in 2005, with a rated capacity of 3 million British thermal units per hour.
(3) Two (2) Thermadeck air make-up units, installed in 2005, with a rated capacity of 5.83 million British thermal units per hour, each.
(4) Three (3) air curtains, installed in 2005, with a rated capacity of 9.5 million British thermal units per hour, each.
(5) One (1) office boiler, installed in 2005, with a rated capacity of 0.64 million British thermal units per hour
(6) Two (2) unit heaters, installed in 2005, with a rated capacity of 0.15 million British thermal units per hour, each.
(7) One (1) unit heater, installed in 2005, with a rated capacity of 0.06 million British thermal units per hour.
(8) One (1) break room furnace, installed in 2005, with a rated capacity of 0.25 million British thermal units per hour.
(9) One (1) training room furnace, installed in 2005, with a rated capacity of 0.11 million British thermal units per hour.
(10) One (1) office furnace, installed in 2005, with a rated capacity of 0.08 million British thermal units per hour.
(11) Four (4) infrared unit heaters, installed in 2005, with a rated capacity of 0.7 million British thermal units per hour, each.
(12) Three (3) infrared unit heaters, installed in 2005, with a rated capacity of 0.3 million British thermal units per hour.
(13) Twenty-five (25) space heaters, installed in 2005, with a rated capacity of 0.13 million British thermal units per hour, each.
(14) One (1) head washer, installed in 2005, with a rated capacity of 0.147 million British thermal units per hour.
(15) One (1) two stage conveyorized spray washer, installed in 2005, with a rated capacity of 1.10 million British thermal units per hour.
(16) Two (2) engine block washers (#1 and #2), installed in 2005, with a rated capacity of 0.225 million British thermal units per hour, each.
(17) One (1) Disa Goff hydropulse parts washer, installed in 2005, with a rated capacity of 0.5 million British thermal units per hour.
(18) One (1) Disa Goff tumble washer, installed in 2005, with a rated capacity of 0.3 million British thermal units per hour.
(19) One (1) Hotsy spray washer, installed in 2005, with a rated capacity of 0.687 million British thermal units per hour.
(20) One (1) head washer, installed in 2005, with a rated capacity of 0.2 million British thermal units per hour.
(21) One (1) pass through small parts washer, installed in 2005, with a rated capacity of 0.25 million British thermal units per hour.

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

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

D.3.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Matter Emission Limitations for Sources of Indirect Heating for Specified Facilities), the PM emissions from the one (1) office boiler rated at 0.64 million Btu per hour shall not exceed 0.6 pounds of particulate matter per million Btu heat input.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

(e) Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004 and individually known as E-1 – E-8, installed in 2005, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-8 and venting to atmosphere; combined capacity of 120 engines per day, 36,000 engines per year.

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

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

D.4.1 NOx FESOP Limit [326 IAC 2-8]

Pursuant to 326 IAC 2-8 the source has chosen to limit NOx emissions to below 100 tons per year. Therefore, 326 IAC 2-7 (Part 70 Permit Program) will not be applicable.

The source will be in compliance with this NOx limit by limiting the eight diesel-powered test cells (P004) to less than a total of sixty (60) tons of NOx per twelve (12) consecutive month period with compliance determined at the end of each month. P004 shall be limited as follows:

(a) The potential to emit of NOx shall not exceed 0.47 pounds of NOx per gallon of diesel fuel.

(b) The input of diesel fuel to the eight (8) diesel-powered engine test cells, known collectively as P004, shall be less than 252,920 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

These limitations equate to the emission rate E which has been established for P004 as follows:

Emission Unit	Emission Rate (lbs NOx/gal diesel fuel)	Annual Fuel Limit (gal)	NOx Emissions (tpy)
Dynos E-1 thru E-8	0.47	252,920	59.60

Compliance with this limit makes 326 IAC 2-2 Prevention of Significant Deterioration (PSD) not applicable. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

Compliance Determination Requirements

D.4.2 Testing Requirements [326 IAC 2-8-1(a)(1),(4)][326 IAC 2-1.1-11]

Within one hundred and eighty (180) days after the initial startup, the Permittee and in order to demonstrate compliance with Condition D.4.1, the Permittee shall perform Nitrogen Oxides (NOx) testing for two (2) of the Diesel Powered Engine Test Cells (E-1 – E-8) utilizing methods as approved be the Commissioner. This test shall be repeated at least once every five (5) years form the date of this valid compliance demonstration in accordance with Section C- Performance Testing.

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

D.4.3 Visible Emissions Notations

(a) Visible emission notations of the engine test cell stack exhausts shall be performed once per working day during normal daylight operations when exhausted to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.4.4 Record Keeping Requirements

(a) To document compliance with Condition D.4.1, the Permittee shall maintain records for the engine test cells and engine attribute cells in accordance with (1) through (3) below.

(1) Calendar dates covered in the compliance determination period;

(2) Actual diesel fuel usage since last compliance determination period;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

(b) To document compliance with Condition D.4.3, the Permittee shall maintain records of visible emission notations of the engine test cell stack exhausts once per working day during normal daylight operations when exhausted to the atmosphere.

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

D.4.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.1 shall be submitted to the address listed in Section C - General Reporting Requirements, 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.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

(f) Natural Gas Fired Burn-off Ovens with Afterburners, collectively identified as P005.

(1) Four (4) Large Burn-off Ovens, identified as O-1, O-2, O-10, and O-11, installed in 2005, each rated at 1.2 million British thermal units per hour, each equipped with afterburners rated at 1.2 million British thermal units per hour, individually exhausting to stacks P005-1, P005-2, P005-10, and P005-11 and venting to atmosphere, capacity; 4,000 pounds per hour of engine parts and 50 pounds per hour of oily residue, each.

(2) Five (5) Medium Burn-off Ovens, identified as O-5 through O-9, installed in 2005, each rated at 0.35 million British thermal units per hour, each equipped with afterburners rated at 0.35 million British thermal units per hour, individually exhausting to stacks P005-5 through P005-9 and venting to atmosphere, capacity; 2,500 pounds per hour of engine parts and 20 pounds per hour of oily residue, each.

(3) Two (2) Small Burn-off Ovens, identified as O-3 and O-4, installed in 2005, each rated at 0.2 million British thermal units per hour, each equipped with afterburners rated at 0.2 million British thermal units per hour, individually exhausting to stacks P005-5 through P005-9 and venting to atmosphere, capacity; 200 pounds per hour of engine parts and 7 pounds per hour of oily residue, each.

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

There are no specific regulations applicable to this facility.

SECTION D.6 FACILITY OPERATION CONDITIONS

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

(g) Abrasive blasting, dust blow-off, and grinding, collectively identified as P006, as follows:

(1) Two (2) steel shot abrasive blasting facilities, identified as SSB#2 and SSB #8, installed in 2005, each equipped with one (1) of two (2) dust collectors, both exhausting into the building, capacity; 48,000 pounds of engine parts per day and 50 pounds of steel shot per day, each.
(2) One (1) steel shot abrasive blasting facilities, identified as SSB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 36,000 pounds of engine parts per day and 50 pounds of steel shot per day.
(3) One (1) steel shot abrasive blasting facilities, identified as SSB#3, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 3,600 pounds of engine parts per day and 25 pounds of steel shot per day.
(4) Three (3) steel shot abrasive blasting facilities, identified as SSB#4, SSB#5, and SSB#6, installed in 2005, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 16,000 pounds of engine parts per day and 20 pounds of steel shot per day, each.
(5) One (1) steel shot abrasive blasting facility, identified as SSB#7, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 4,800 pounds of engine parts per day and 20 pounds of steel shot per day.
(6) Six (6) pneumatic glass bead abrasive facilities, identified as GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, and GBB#9, installed in 2005, each equipped with one (1) of six (6) dust collectors, exhausting into the building, capacity; 1,200 pounds of engine parts per day, each.
(7) Three (3) pneumatic glass bead abrasive facilities, identified as GBB#1, GBB#2, and GBB#3, installed in 2005, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 600 pounds of engine parts per day, each.
(8) One (1) pneumatic abrasive sand blasting facility, identified as SB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 3,000 pounds of engine parts per day.
(9) Two (2) plastic bead abrasive blasting facilities, identified as PBB#1 and PBB#2, installed in 2005, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 720 pounds of engine parts per day, each.
(10) One (1) blow-off booth for dust removal, identified as BO#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 84,000 pounds of engine parts per day.
(11) One (1) grinding booth, identified as RB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 480 pounds of engine parts per day.

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

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

D.6.1 FESOP Minor Limit Particulate Matter (PM10) [326 IAC 2-8]

Pursuant to 326 IAC 2-8 the source will limit source wide PM10 emissions to below 100 tons per year by limiting the pound per hour emissions of the controlled units. The controlled units shall be limited as follows:

Unit	PM10 Limit Per Unit (lb/hr)
SSB#7	0.68
SSB#4, SSB#5, SSB#6	0.80
SSB#2	1.83
SSB#3	1.37
SSB#1, SSB#8	1.60
GBB#1, GBB#2, GBB#3	0.02
SB#1	0.09
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9,	0.01
PBB#1, PBB#2	0.02
Total:	9.73

D.6.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to, 326 IAC 6-3-2 (Process Operations) the particulate emissions from abrasive blasting, dust blow-off, and grinding (P006) shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

The emissions rate E has been established for the units as follows:

Units	Process Weight Rate per unit (tons/hour)	PM Emission Limit per unit (lbs/hr)
SSB#2, SSB#8	1	4.10
SSB#1	0.75	3.38
SSB#3	0.075	0.72
SSB#4, SSB#5, SSB#6	0.33	1.95
SSB#7	0.1	0.88
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9	0.025	0.35
GBB#1, GBB#2, GBB#3	0.0125	0.22
SB#1	0.0625	0.64
PBB#1, PBB#2	0.36	2.07
BO#1	1.75	5.97
RB#1	0.01	0.19
	Total	32.73

D.6.3 Particulate

In order to comply with Conditions D.6.4 and D.6.5, particulate from abrasive blasting, dust blow-off and grinding manufacturing processes shall be controlled by dust collectors and the Permittee shall operate the control device in accordance with manufacturer's specifications.

D.6.4 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 these facilities and their control devices.

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

D.6.5 Visible Emissions Notations

(a) Visible emission notations of the shot blast units at the point of exhaust shall be performed once per day during normal daylight operations when exhausting to the outside atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.6.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the dust collectors controlling the abrasive blasting, dust blow-off, and grinding operations (SSB#1 - SSB#8, SB#1, GGB#1 - GGB#9, and PPB#1 – PPB#2), once per day when venting to the outside atmosphere. When for any one reading, the pressure drop across the dust collector is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit

D.6.7 Dust Collector Inspections

An inspection shall be performed each calendar quarter of all filters controlling the shot blasting operations when venting to the atmosphere. A dust collector inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.6.8 Dust Collector Failure Detection

In the event that a dust collector failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the

requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For single compartment dust collectors, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.6.9 Record Keeping Requirements

(a) To document compliance with Condition D.6.5, the Permittee shall maintain records of the daily visible emission notations of the shot blast stacks exhaust on days when the shot blasters are exhausting to the outside atmosphere.

(b) To document compliance with Condition D.6.6, the Permittee shall maintain records of the total static pressure drop across the dust collectors controlling the abrasive blasting, dust blow-off, and grinding operations (SSB#1 - SSB#8, SB#1, GGB#1 - GGB#9, and PPB#1 – PPB#2), on days when the shot blasters are exhausting to the outside atmosphere.

(c) To document compliance with Condition D.6.7, the Permittee shall maintain records of the results of the inspections required under Condition D.6.7 and the dates the vents are redirected.

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

SECTION D.7 FACILITY OPERATION CONDITIONS

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

(h) Welding Operations, collectively known as P007, installed in 2005, with a maximum capacity or 250 pounds of electrode per day, total, and exhausting to a stack identified as GPV-1.

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

There are no specific regulations applicable to this facility.

SECTION D.8 INSIGNIFICANT ACTIVITIES

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

(a) Combustion related activities, including the following:
  (1) Propane or Liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
  (2) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hr, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hr.
  (3) Combustion source flame safety purging on startup.

(b) Fuel dispensing activities, including the following:
  (1) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity of less than or equal to 10,500 gallons.
  (2) A diesel fuel dispensing facility, having a storage capacity less than or equal to (10,000) gallons, and dispensing (3,500) gallons per day or less as follows:
    (A) One (1) fixed roof cone tank, identified as T1 Diesel, installed in 2005, with a storage capacity of 500 gallons, and a maximum annual throughput of 6,000 gallons.
    (B) One (1) fixed roof cone tank, identified as T2 Diesel, installed in 2005, with a storage capacity of 2,000 gallon, and a maximum annual throughput of 250,000 gallons.

(c) The following VOC and HAP storage containers:
  (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs equal to or less than 12,000 gallons.
  (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(d) Equipment used exclusively for the following: filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases.

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

(f) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(g) Cleaners and solvents characterized as follows:
  (1) having a vapor pressure equal to or less than 2 kiloPascals; 15mm Hg; or 0.3 psi measured at 38 degrees Centigrade (100 degrees Fahrenheit); or
  (2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5mm Hg; or 0.1 psi measured at 20 degrees Centigrade (68 degrees Fahrenheit);

  the use of which, for all cleaners and solvents combined, does not exceed 145 gallons per 12 months.

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

(i) Closed loop heating and cooling systems.

(j) Infared cure equipment.

(k) Solvent recycling systems with batch capacity less than or equal to 100 gallons.

(l) Water based activities, including the following:
  (1) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
  (2) Activities associated with the transportation and treatment of sanitary sewage, provided the discharge to the treatment plant is under the control of the owner or operator, that is, an on-site sewage treatment facility.

(3) Any operation using aqueous solutions containing less than 1% VOCs by weight of VOCs excluding HAPs. (3) Any operation using aqueous solutions containing less than 1% VOCs by weight of VOCs excluding HAPs. (4) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
(4) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
(5) Non-contact cooling tower systems with either of the following:
(A) Natural draft cooling towers not regulated under a NESHAP.
(B) Forced and induced draft cooling tower systems not regulated under a NESHAP.
(6) Quenching operations used with heat treating processes

Oil, grease, or VOC content shall be determined by a test method acceptable to the department and the U.S. EPA.

(m) Repair activities, including the following:
(1) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
(2) Heat exchanger cleaning and repair.

(n) Trimmers that do not produce fugitive emissions and that are equipped with a dust collector or trim material recovery device such as a bag filter or cyclone.

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

(p) Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including the following: purging of gas lines.

(q) 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.

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

(s) Onsite fire and emergency response training approved by the department.

(t) Emergency generators as follows:
(1) Gasoline generators not exceeding 110 horsepower.
(2) Diesel generators not exceeding 1,600 horsepower.

(u) Other emergency equipment as follows: Stationary fire pumps.

(v) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 100 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking.

(w) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kilopascals measured at 39 degrees Centigrade).

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

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

There are no specific regulations applicable to this facility

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Franklin Power Products / International Fuel Systems
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056

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 BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204
Phone: 317-233-5674
Fax: 317-233-5967

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: Franklin Power Products / International Fuel Systems
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056

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 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-5967), 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 Quarterly Report

Source Name: Franklin Power Products / International Fuel Systems
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056
Facility: Engine Test Cells E1 – E8 (P004)
Parameter: Diesel Fuel
Limit: 252,920 per twelve (12) consecutive month period

YEAR:_____

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

☐ 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

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

Source Name: Franklin Power Products / International Fuel Systems
Source Address: 751 International Drive, Franklin, Indiana 46131
Mailing Address: 400 Forsythe Street, Franklin, Indiana 46131
FESOP No.: F081-20601-00056

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

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

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Mail to: Permit Administration & Development Section
Office Of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Franklin Power Products / International Fuel Systems
751 International Drive
Franklin, Indiana 46131

Affidavit of Construction

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

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

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

3. By virtue of my position with _____,I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____ .
(Company Name)

4. I hereby certify that (? Company Name), (complete source location), Indiana, (zip code), completed construction of the (? operation/facility) on _____in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on (? date) and as permitted pursuant to **FESOP Permit No. 081-20601, Plant ID No. 081-00056.**
issued on

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

Further Affiant said not.

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

Signature

Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

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

My Commission expires:

Signature

Name (typed or printed)

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	**Franklin Power Products / International Fuel Systems**
Source Location:	**751 International Drive, Franklin, Indiana 46131**
County:	**Johnson**
SIC Code:	**3519**
Operation Permit No.:	**081-20601-00056**
Permit Reviewer:	**Jenny Acker**

The Office of Air Quality (OAQ) has reviewed a FESOP application from Franklin Power Products / International Fuel Systems relating to the construction and operation of a stationary diesel engine remanufacturing operation.

Unpermitted Emission Units and Pollution Control Equipment

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

New Emission Units and Pollution Control Equipment

(a) One (1) paint spray booth, identified as PB#1, constructed in 2005, controlled by dry particulate filters, exhausting to a stack identified as SPB-1 and venting to atmosphere, capacity; 120 engines per day, 36,000 engines per year.

(b) Miscellaneous solvents and plant wide VOC containing material usage not covered elsewhere, identified as P001.

(c) Cold solvent degreasing, collectively identified as P002.

- (1) Five (5) oscillating cold solvent cleaners, identified as CC-1 – CC-5, installed in 2005, with a maximum capacity of one (1) gallon per day, each.
- (2) Six (6) cold solvent cleaning tanks, identified as CC-6 – CC-11, installed in 2005, with a maximum capacity of 0.4 gallon per day, each.
- (3) Six (6) cold solvent cleaning sinks with remote solvent reservoirs, identified as CC-12 – CC-17, installed in 2005, with a maximum capacity of 0.3 gallon per day, each.
- (4) Five (5) agitating cold solvent cleaners, identified as AAC-1 – AAC-5, installed in 2005, with a maximum capacity of 1.5 gallon per day, each.
- (5) One (1) dual stage cold solvent cleaner, identified as DDC-1, installed in 2005, with a maximum capacity of 0.5 gallon per day.
- (6) One (1) immersion cold solvent cleaner, identified as ICC-1, installed in 2005, with a maximum capacity of 0.2 gallon per day.
- (7) Four (4) calibration fluid cold solvent cleaners, identified as CCC-1 – CCC-4, installed in 2005, with a maximum capacity of 0.5 gallon per day, each.

(d) Natural gas fired combustion sources, collectively identified as P003.

(1) One (1) air make-up unit, installed in 2005, with a rated capacity of 10.40 million British thermal units per hour.
(2) One (1) Cambridge air make-up unit, installed in 2005, with a rated capacity of 3 million British thermal units per hour.
(3) Two (2) Thermadeck air make-up units, installed in 2005, with a rated capacity of 5.83 million British thermal units per hour, each.
(4) Three (3) air curtains, installed in 2005, with a rated capacity of 9.5 million British thermal units per hour, each.
(5) One (1) office boiler, installed in 2005, with a rated capacity of 0.64 million British thermal units per hour.
(6) Two (2) unit heaters, installed in 2005, with a rated capacity of 0.15 million British thermal units per hour, each.
(7) One (1) unit heater, installed in 2005, with a rated capacity of 0.06 million British thermal units per hour.
(8) One (1) break room furnace, installed in 2005, with a rated capacity of 0.25 million British thermal units per hour.
(9) One (1) training room furnace, installed in 2005, with a rated capacity of 0.11 million British thermal units per hour.
(10) One (1) office furnace, installed in 2005, with a rated capacity of 0.08 million British thermal units per hour.
(11) Four (4) infrared unit heaters, installed in 2005, with a rated capacity of 0.7 million British thermal units per hour, each.
(12) Three (3) infrared unit heaters, installed in 2005, with a rated capacity of 0.3 million British thermal units per hour.
(13) Twenty-five (25) space heaters, installed in 2005, with a rated capacity of 0.13 million British thermal units per hour, each.
(14) One (1) head washer, installed in 2005, with a rated capacity of 0.147 million British thermal units per hour.
(15) One (1) two stage conveyorized spray washer, installed in 2005, with a rated capacity of 1.10 million British thermal units per hour.
(16) Two (2) engine block washers (#1 and #2), installed in 2005, with a rated capacity of 0.225 million British thermal units per hour.
(17) One (1) Disa Goff hydropulse parts washer, installed in 2005, with a rated capacity of 0.5 million British thermal units per hour.
(18) One (1) Disa Goff tumble washer, installed in 2005, with a rated capacity of 0.3 million British thermal units per hour.
(19) One (1) Hotsy spray washer, installed in 2005, with a rated capacity of 0.687 million British thermal units per hour.
(20) One (1) head washer, installed in 2005, with a rated capacity of 0.2 million British thermal units per hour.
(21) One (1) pass through small parts washer, installed in 2005, with a rated capacity of 0.25 million British thermal units per hour.

(e) Eight (8) diesel-powered engine test cells (dynos), collectively identified as P004 and individually known as E-1 – E-8, installed in 2005, each rated at a maximum output of 275 horsepower, individually exhausting to stacks identified as P004-1 – P004-8, and venting to atmosphere; combined capacity of 120 engines per day, 36,000 engines per year.

(f) Natural Gas Fired Burn-off Ovens with Afterburners, collectively identified as P005.

(1) Four (4) Large Burn-off Ovens, identified as O-1, O-2, O-10, and O-11, installed in 2005, each rated at 1.2 million British thermal units per hour, each equipped

with afterburners rated at 1.2 million British thermal units per hour, individually exhausting to stacks P005-1, P005-2, P005-10, and P005-11 and venting to atmosphere, capacity; 4,000 pounds per hour of engine parts and 50 pounds per hour of oily residue, each.

(2) Five (5) Medium Burn-off Ovens, identified as O-5 through O-9, installed in 2005, each rated at 0.35 million British thermal units per hour, each equipped with afterburners rated at 0.35 million British thermal units per hour, individually exhausting to stacks P005-5 through P005-9 and venting to atmosphere, capacity; 2,500 pounds per hour of engine parts and 20 pounds per hour of oily residue, each.

(3) Two (2) Small Burn-off Ovens, identified as O-3 and O-4, installed in 2005, each rated at 0.2 million British thermal units per hour, each equipped with afterburners rated at 0.2 million British thermal units per hour, individually exhausting to stacks P005-3 and P005-4 and venting to atmosphere, capacity; 200 pounds per hour of engine parts and 7 pounds per hour of oily residue, each

(g) Abrasive blasting, dust blow-off, and grinding, collectively identified as P006, as follows:

(1) Two (2) steel shot abrasive blasting facilities, identified as SSB#2 and SSB #8, installed in 2005, each equipped with one (1) of two (2) dust collectors, both exhausting into the building, capacity; 48,000 pounds of engine parts per day and 50 pounds of steel shot per day, each.

(2) One (1) steel shot abrasive blasting facilities, identified as SSB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 36,000 pounds of engine parts per day and 50 pounds of steel shot per day.

(3) One (1) steel shot abrasive blasting facilities, identified as SSB#3, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 3,600 pounds of engine parts per day and 25 pounds of steel shot per day.

(4) Three (3) steel shot abrasive blasting facilities, identified as SSB#4, SSB#5, and SSB#6, installed in 2005, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 16,000 pounds of engine parts per day and 20 pounds of steel shot per day, each.

(5) One (1) steel shot abrasive blasting facility, identified as SSB#7, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 4,800 pounds of engine parts per day and 20 pounds of steel shot per day.

(6) Six (6) pneumatic glass bead abrasive facilities, identified as GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, and GBB#9, installed in 2005, each equipped with one (1) of six (6) dust collectors, exhausting into the building, capacity; 1,200 pounds of engine parts per day, each.

(7) Three (3) pneumatic glass bead abrasive facilities, identified as GBB#1, GBB#2, and GBB#3, installed in 2005, each equipped with one (1) of three (3) dust collectors, exhausting into the building, capacity; 600 pounds of engine parts per day, each.

(8) One (1) pneumatic abrasive sand blasting facility, identified as SB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 3,000 pounds of engine parts per day.

(9) Two (2) plastic bead abrasive blasting facilities, identified as PBB#1 and PBB#2, installed in 2005, each equipped with one (1) of two (2) dust collectors, exhausting into the building, capacity; 720 pounds of engine parts per day, each.

(10) One (1) blow-off booth for dust removal, identified as BO#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 84,000 pounds of engine parts per day.

(11) One (1) grinding booth, identified as RB#1, installed in 2005, equipped with a dust collector, exhausting into the building, capacity; 480 pounds of engine parts per day.

(h) Welding Operations, collectively known as P007, installed in 2005, with a maximum capacity or 250 pounds of electrode per day, total.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) Combustion related activities, including the following:
- (1) Propane or Liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
- (2) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hr, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hr.
- (3) Combustion source flame safety purging on startup

(b) Fuel dispensing activities, including the following:
- (1) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity of less than or equal to 10,500 gallons.
- (2) A diesel fuel dispensing facility, having a storage capacity less than or equal to (10,000) gallons and dispensing (3,500) gallons per day or less as follows:
  - (A) One (1) fixed roof cone tank, identified as T1 Diesel, installed in 2005, with a storage capacity of 500 gallons, and a maximum annual throughput of 6,000 gallons.
  - (B) One (1) fixed roof cone tank, identified as T2 Diesel, installed in 2005, with a storage capacity of 2,000 gallon, and a maximum annual throughput of 250,000 gallons.

(c) The following VOC and HAP storage containers:
- (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs equal to or less than 12,000 gallons.
- (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(d) Equipment used exclusively for the following: filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases.

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

(g) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

(h) Cleaners and solvents characterized as follows:

(1) having a vapor pressure equal to or less than 2 kilo Pascals; 15mm Hg; or 0.3 psi measured at 38 degrees Centigrade (100 degrees Fahrenheit); or
(2) having a vapor pressure equal to or less than 0.7 kilo Pascals; 5mm Hg; or 0.1 psi measured at 20 degrees Centigrade (68 degrees Fahrenheit);

the use of which, for all cleaners and solvents combined, does not exceed 145 gallons per 12 months.

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

(j) Closed loop heating and cooling systems.

(k) Infared cure equipment.

(l) Solvent recycling systems with batch capacity less than or equal to 100 gallons.

(m) Water based activities, including the following:
(1) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
(2) Activities associated with the transportation and treatment of sanitary sewage, provided the discharge to the treatment plant is under the control of the owner or operator, that is, an on-site sewage treatment facility.
(3) Any operation using aqueous solutions containing less than 1% VOCs by weight of VOCs excluding HAPs.
(4) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
(5) Non-contact cooling tower systems with either of the following:
(A) Natural draft cooling towers not regulated under a NESHAP
(B) Forced and induced draft cooling tower systems not regulated under a NESHAP.
(6) Quenching operations used with heat treating processes

Oil, grease, or VOC content shall be determined by a test method acceptable to the department and the U.S. EPA.

(n) Repair activities, including the following:
(1) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
(2) Hest exchanger cleaning and repair.

(o) Trimmers that do not produce fugitive emissions and that are equipped with a dust collector or trim material recovery device such as a bag filter or cyclone.

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

(q) Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including the following: purging of gas lines.

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

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

(s) Onsite fire and emergency response training approved by the department.

(t) Emergency generators as follows:
(1) Gasoline generators not exceeding 110 horsepower.
(2) Diesel generators not exceeding 1,600 horsepower.

(u) Other emergency equipment as follows: Stationary fire pumps.

(v) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 100 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking.

(w) Mold release agents using low volatile products (vapor pressure less than or equal to 2 kilopascals measured at 39 degrees Centigrade).

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

Existing Approvals

This is the first approval for Franklin Power Products / International Fuel Systems, located at 751 International Drive, Franklin Indiana.

Upon issuance of this FESOP Permit No.: 081-20601-00056, Franklin Power Products (Plant ID No.: 081-00040) and International Fuel Systems (Plant ID No.: 081-00041) will combine their operations to 751 International Drive, Franklin, Indiana and will apply for revocations at the existing locations.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operations	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{o}F)
SPB-1	Surface Coating (PB#1)	35	1.5	4000	Ambient
S004	Representative Diesel Engine Stack (P004)	35	0.5	500	300
S005	Representative Burn-off Oven Stack (P005)	35	1.33	2200	1200

Representative Stacks are being shown as the source has not determined the final stack and venting arrangement. Multiple units within each process may vent to shared stacks and others to individual stacks. The table represents the expected parameters of each stack independent of the number of units within each process venting to the stack.

Recommendation

The staff recommends to the Commissioner that the FESOP 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 administratively complete FESOP application for the purposes of this review was received on January 27, 2005.

Emission Calculations

The calculations for the paint spray booth (PB#1); the miscellaneous solvents and plant wide VOC usage (P001); the cold solvent degreasing (P002); and the welding (P007) calculations submitted by the applicant have been verified and found to be accurate and correct. Calculations for the natural gas combustion sources (P003); the diesel power test cells (P004); the natural gas fired burn-off ovens (P005); and the abrasive blasting, dust blow-off, and grinding operations (P006) are provided in Appendix A of this document (Pages 1 through 15).

Potential to Emit

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

Pollutant	Potential to Emit (tons/yr)
PM	1625.11
PM-10	1407.20
SO_2	11.37
VOC	74.34
CO	60.94
NO_x	150.97

HAPs	Potential to Emit (tons/yr)
Largest Single HAP (Glycol Ethers)	9.77
All Other HAPs Combined	4.17
Total	13.94

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10 and NOx are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.

(b) 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 particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source has opted to be 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.

	Potential To Emit (tons/year)						
Emission Unit ID	PM	PM-10	SO_2	VOC	CO	NO_x	HAPs
PB#1 (Paint Booth)	0.53	0.53	--	11.80	--	--	9.77
P001 (Misc. Plantwide)	--	--	--	27.01	--	--	2.45
P002 (Cold Cleaning)	--	--	--	24.10	--	--	--
P003 (Natural Gas Combustion)	0.54	2.14	0.17	1.55	23.66	28.16	1.00
P004 (Engine Test Cells)	--	5.37	5.02	6.24	16.46	59.60	0.49
P005 (Burn-off Ovens)	5.60	5.37	1.32	0.33	5.10	6.30	0.23
* P006 (Abrasive Blasting)	16.08	27.53	--	--	--	--	--
P007 (Welding)	0.84	0.84	--	--	--	--	--
Insignificant Activities	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Emissions	23.59	41.78	6.51	71.03	45.22	94.06	13.94

* After control PM10 emissions are larger than after control PM emissions because the application for this permit cites 99% control efficiency for PM and 98% control efficiency for PM10.

HAPs	Potential to Emit (tons/yr)
Largest Single HAP (Glycol Ethers)	9.77
All Other HAPs Combined	4.17
Total	13.94

County Attainment Status

The source is located in Johnson County**.**

Pollutant	Status
PM-2.5	Nonattainment
PM-10	Attainment
SO_2	Attainment
NO_2	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Basic Nonattainment

CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC)and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintianing the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Johnson County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(b) U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Johnson County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging the U.S.EPA's designation of nonattainment areas without sufficent data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S.EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Nonattainment New Source Review requirements.

(c) Johnson County has been classified as attainment or unclassifiable for 1-hour ozone standard, PM-10, SO2, NO2, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(a) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Federal Rule Applicability

NSPS

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

(b) Franklin Power Products / International Fuel Systems, is not subject to the requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60.110b, Subpart Kb, since each vessel (Tank1 and Tank2) has a storage capacity less than 75 cubic meters (m^3).

NESHAPs

(a) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source.

(b) Franklin Power Products/International Fuel Systems is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands (40 CFR 63, Subpart PPPPP) because it is not a major source for Hazardous Air Pollutants (HAPs).

State Rule Applicability – Entire Source

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

This FESOP will limit PM and PM10 emissions to below 250 tons per year. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) will not be applicable.

326 IAC 2-3 (Emission Offset)

This FESOP will limit Nitrogen Oxides (NOx) to below 100 tons per year. Therefore, 326 IAC 2-3 (Emission Offset) does not apply.

Johnson County has been designated as non-attainment for PM2.5 in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM2.5 major NSR regulations, states should assume that a major stationary source's PM emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment NSR program as a surrogate to address the requirements of nonattainment major NSR for PM2.5 NAAQS. A major source in a nonattainment area as a source that emits or has the potential to emit 100 tpy of any regulated pollutant. Franklin Power Products has a limited potential to emit of PM10 below 100 tpy. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-3 does not apply.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of engine manufacturing will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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

State Rule Applicability – Individual Facilities

326 IAC 2-8 (NOx FESOP Limit)

Pursuant to 326 IAC 2-8, the source has chosen to limit NOx emission to below 100 tons per year.

The source will be in compliance with this limit by the following:

(a) limiting the input of diesel fuel to the diesel-powered engine test cells (P004) to less than 252,920 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.
(b) the potential to emit of NOx shall not exceed an emission rate factor of 0.47 pounds of NOx per gallon of diesel fuel.

These emission limits combined with the NOx emissions from other units limit the NOx emissions from the entire source less than 100 tons/yr. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-3 (Emission Offset) are not applicable.

326 IAC 2-8 (PM10 FESOP Limit)

Pursuant to 326 IAC 2-8, the source has chosen to limit PM10 emission to below 100 tons per year.

The source will be in compliance by limiting the ton per year emissions of the controlled units PM10 per twelve (12) consecutive month period. The source has chosen to limit the controlled units as follows:

Unit	PM10 Limit Per Unit (lb/hr)	PM10 Limit per Unit (tons per year)
SSB#7	0.68	6.75
SSB#4, SSB#5, SSB#6	0.80	3.44
SSB#2	1.83	5.79
SSB#3	1.37	7.87
SSB#1, SSB#8	1.60	6.87
GBB#1, GBB#2, GBB#3	0.01	0.02
SB#1	0.09	0.27
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9,	0.01	0.05
PBB#1, PBB#2	0.02	0.06
	Total	45.18

The baghouses shall be in operation at all times the above facilities are in operation, in order to comply with this limit.

These emission limits combined with the PM10 emissions from other units limit the PM10 from the entire source to less than 100 tons/yr. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) are not applicable.

326 IAC 4-2-2 (Incinerators)

Pursuant to 326 IAC 1-2-34 (“Incinerator” definition), the Burn-off ovens are not incinerators since they don’t burn waste. Therefore, 326 IAC 4-2-2 shall not apply.

326 IAC 6-2-1 (Particulate Matter Emission Limitations for Sources of Indirect Heating for Specified Facilities)

Pursuant to 326 IAC 6-2-4(a) particulate matter emission from the one (1) office boiler rated at 0.64 million Btu per hour shall be limited to 1.22 pounds of particulate matter per million Btu heat input based on the following:

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

Where:

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

Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

However, pursuant to 326 IAC 6-2-4(a) for a Q less than ten (10) million Btu/hr, Pt shall not exceed 0.6 lb per MMbtu heat input.

326 IAC 6-3-2 (Process Operations) for surface coating processes

On June 12, 2002, revisions to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) became effective; this rule was previously referred to as 326 IAC 6-3 (Process Operations). As of the date this permit is being issued these revisions have not been approved by EPA into the Indiana State Implementation Plan (SIP); therefore, the following requirement from the previous version of 326 IAC 6-3 (Process Operations) which has been approved into the SIP will remain applicable requirement until the revisions to 326 IAC 6-3 are approved into the SIP and the condition is modified in a subsequent permit action.

Pursuant to 40 CFR 52, Subpart P the particulate matter (PM) from the surface coating process shall be limited by the following:

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

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

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

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

Pursuant to, 326 IAC 6-3-2 (Process Operations) the particulate emissions from the source shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

Process weight includes weight of shot.

The emissions rate E has been established for the units as follows:

Units	Process Weight Rate per unit (tons/hour)	PM Emission Limit per unit (lbs/hr)
SSB#2, SSB#8	1	4.10
SSB#1	0.75	3.38
SSB#3	0.075	0.72
SSB#4, SSB#5, SSB#6	0.33	1.95
SSB#7	0.1	0.88
GBB#4, GBB#5, GBB#6, GBB#7, GBB#8, GBB#9	0.025	0.35
GBB#1, GBB#2, GBB#3	0.0125	0.22
SB#1	0.0625	0.64
PBB#1, PBB#2	0.36	2.07
BO#1	1.75	5.97
RB#1	0.01	0.19
	Total	32.73

The baghouses shall be in operation at all times the above facilities are in operation, in order to comply with this limit.

These emission limits combined with the PM emissions from other units limit the PM from the entire source to less than 250 tons/yr. Therefore, the requirements of 326 IAC 2-2 Prevention of Significant Deterioration (PSD) are not applicable.

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

Welding operations (P007) consume less than 625 pounds per day of rod or wire. Therefore, pursuant to 326 IAC 6-3-1(9), 326 IAC 6-3-2 does not apply.

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

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of the coating delivered to the applicator at the paint spray booth (PB#1) shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the spray booth is in compliance with this requirement.

lb VOC/ gallon minus H_20 = 3.401

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

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), 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 operating 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)

Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38^{o}C) (one hundred degrees Fahrenheit (100^{o}F));
  (B) The solvent is agitated; or
  (C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{o}C) (one hundred degrees Fahrenheit (100^{o}F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label, which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure, which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{o}C) (one hundred degrees Fahrenheit (100^{o}F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^{o}C) (one hundred twenty degrees Fahrenheit (120^{o}F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
(B) A water cover when solvent is used is insoluble in, and heavier than, water.
(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

326 IAC 8-4-3 (Petroleum Liquid Storage Faciltites)
Tanks T1 and T2 have storage capacities less than 39,000 gallons. Therefore, 326 IAC 8-4-3 does not apply.

Testing Requirements

326 IAC 2-8-5(a)(1) and 326 IAC 2-1.1-11
Within one hundred and eighty (180) days after intial startup, the Permittee shall conduct a performance test for two (2) of the eight (8) Test Cells to verify the NOx emissison rate as required by FESOP for the Test Cells (P004), utilizing methods as approved by the comissioner. This test shall be repeated at least once every five years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

An emission rate of 0.47 pounds of NOx per gallon of diesel fuel has been established for P004.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less 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 requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions 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 deviation in relation to a compliance monitoring condition will arise through a source's failure to take the approporiate corrective actions within a specific time period.

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

1. The abrasive blasting, dust blow-off, and grinding operations (SSB#1 - SSB#8, SB#1, GGB#1 - GGB#9, and PPB#1 – PPB#2), have applicable compliance monitoring conditions as specified below:

   (a) Daily visible emissions notations of the abrasive blasting, dust blow-off, and grinding operations (SSB#1 - SSB#8, SB#1, GGB#1 - GGB#9, and PPB#1 – PPB#2), shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting start up or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

   (b) The Permittee shall record the total static pressure drop across the dust collectors controlling the aabrasive blasting, dust blow-off, and grinding operations (SSB#1 - SSB#8, SB#1, GGB#1 - GGB#9, and PPB#1 – PPB#2), once per day when venting to the outside atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation of this permit

   The instrument used for determining the pressure shall comply with Section C – Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

   These monitoring conditions are necessary because the dust collectors must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations), 326 IAC 2-8 (FESOP), 326 IAC 2-2 (Prevention of Significant Deteroriation (PSD)) and 326 IAC 2-3 (Emission Offset).

2. The paint booth (PB#1) has applicable compliance monitoring conditions as specified below:

   (a) Daily inspections shall be performed to verify the placement, integrity and particulate loading of the dry filters. Weekly observations shall be made of th eoverspray from the surface coating booth stack (SPB-1). The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
   (b) Monthly inspections shall be performed of the coating emissions from the stack SPB-1 and the presence of overspray on the rooftops and nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
   (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

   These monitoring conditions are necessary because the dry filters must operate properly to compliance with 326 IAC 6-3 (Process Operations).

Air Quality Impacts from Minor Sources

Modeling Overview

Pursuant to 326 IAC 2-1.1-5, IDEM, OAQ, has conducted a modeling analysis of the Limited Potential to Emit (PTE) criteria pollutants from this proposed source to estimate whether the Limited PTE criteria pollutants will cause or contribute to a violation of any National Ambient Air Quality Standard (NAAQS).

Modeling Results – Criteria Pollutants

The modeling results indicate that all of the Limited PTE criteria pollutants from this source will not cause or contribute to a violation of any National Ambient Air Quality Standard (NAAQS).

Conclusion

The operation of this stationary diesel engine remanufacturing plant, shall be subject to the conditions of the FESOP 081-20601-00056.

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

Company Name: Franklin Power Products / International Fuel Systems
Address City IN Zip: 751 International Drive, Franklin, Indiana 46131
Permit Number: 081-20601
Plt ID: 081-00056
Reviewer: Jenny Acker
Date: February 3, 2005

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
61.95	532.0
3.63	31.2

Source ID: P003	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100	5.5	84.0
Potential Emission in tons/yr						
Heaters/Boilers (61.95 MMBtu/hr)	0.51	2.02	0.16	26.60	1.46	22.35
Washers (3.634 MMBtu/hr)	0.03	0.12	0.01	1.56	0.09	1.31
Totals	**0.54**	**2.14**	**0.17**	**28.16**	**1.55**	**23.66**

*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

Methodology

All emission factors are based on normal firing.
MMBtu = 1,020,000 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 Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Source ID: P003	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					
Heaters/Boilers (61.95 MMBtu/hr)	5.586E-04	3.192E-04	1.995E-02	4.788E-01	9.045E-04
Washers (3.634 MMBtu/hr)	5.586E-04	3.192E-04	1.995E-02	4.788E-01	9.045E-04
Totals	**1.117E-03**	**6.384E-04**	**3.990E-02**	**9.577E-01**	**1.809E-03**

Source ID: P003	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					
Heaters/Boilers (61.95 MMBtu/hr)	1.330E-04	2.926E-04	3.724E-04	1.011E-04	5.586E-04
Washers (3.634 MMBtu/hr)	1.330E-04	2.926E-04	3.724E-04	1.011E-04	5.586E-04
Totals	**2.660E-04**	**5.852E-04**	**7.449E-04**	**2.022E-04**	**1.117E-03**

Total HAP Emission (tpy) **1.00**

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

Appendix A: Emission Calculations
Diesel Gas Fired Internal Combustion Engines
Emissions

Company Name: Franklin Power Products / International Fuel Systems
Address City IN Zip: 751 International Drive, Franklin, Indiana 46131
Permit Number: 081-20601
Plt ID: 081-00056
Reviewer: Jenny Acker
Date: February 3, 2005

Source: P004

Dyno	Heat Input (MMBtu/hr)	Rating (Hp)
E-1 to E-8 combined	7.700	1100

	Pollutant Emissions Uncontrolled				
Pollutant	**PM10**	**SO2**	**CO**	**[1] NOx - assume 22% reduction**	**TOC**
Emission Factor (lb/hp-hr)	2.20E-03	2.05E-03	6.68E-03	3.10E-02	2.54E-03
Emissions (lbs/hr)	2.42	2.26	7.35	26.60	2.18
Total Potential Emission (tpy) (E-1 to E-8)	**10.60**	**9.88**	**32.18**	**116.50**	**9.55**

	Pollutant Emissions (Fuel Limitation)			
Pollutant	**PM10**	**SO2**	**CO**	**TOC**
Emission Factor (lb/mmbtu)	0.31	0.29	0.95	0.36
Annual Fuel consumption (gal): 252,920				
Heat Capacity of Fuel (btu/gal): 137,000				
Limited Potential Emission (tpy) (E-1 to E-8)	**5.37**	**5.02**	**16.46**	**6.24**

Pollutant		**NOx**
Emission Factor (lb/gal diesel fuel)	0.47	
Annual Fuel consumption (gal):	252,920	
Limited Potential Emissions (tpy) (E-1 to E-8)		**59.60**

Rating calculated as follows: (8 dynos) (1 engine/cell) (275 hp-hr/engine) (1/2 hour per test)
Heat Input (MMBtu/hr) per engine per 1/2 duty cycle * 8 engines

Methodology
Emission Factors from AP-42, Chapter 3.3, Table 3.3-1, (Fifth Ed. 1996)
Particulate matter emissions are assumed to be in the form of PM10.

Potential Emissions Uncontrolled (lbs/hr) = Emission Factor * Rating (hp)

Potential Emissions Controlled (Fuel Limitation) (tpy) = Emission Factor (lb/mmbtu) * Annual Fuel Consumption (gal/yr) * (Heat Capacity of Fuel (btu/gal) * 1mm btu/1,000,000btu) / 2000 (lbs/tons)

Potential Emission Nox (22% reduction)
Maximum Fuel Rate per Dyno (gal/hr) = Heat input per cell (MMBtu/hr) * 1/ Heat Capacity of diesel fuel (MMBtu/gal)
= 0.963 MMBtu/hr * 1/0.137 MMBtu/gal = 7.03 gal/hr per Dyno
3.44 lb NOx/MMBtu conversion to an Emission factor in terms of lb NOx/gal diesel fuel
= 3.44 lb NOx/MMBtu * 0.137 MMBtu/gal diesel fuel = 0.47 lb NOx/gal diesel fuel

[1] NOx emission factor was reduced by a factor of 22% to reflect inherently lower emission potential of turbocharged diesel engines. The engines being tested are designed to meet or exceed 1987 EPA national vehicle emission standards of 0.024 lb NOx/hp-hr or 3.44 lb NOx/MMBtu.

Appendix A: Emission Calculations
Diesel Gas Fired Internal Combustion Engines
Emissions

Company Name: Franklin Power Products / International Fuel Systems
Address City IN Zip: 751 International Drive, Franklin, Indiana 46131
Permit Number: 081-20601
Plt ID: 081-00056
Reviewer: Jenny Acker
Date: February 3, 2005

Unit	Specific Heat Capacity of Diesel Fuel (Btu/gal)	Annual Fuel Limitation (gal/yr)
E-1 to E-8	137000	252920

HAPs Emissions - Uncontrolled		
Pollutant	Emission Factor (lbs/MMBtu)	Emissions (tpy)
1,3-Butadiene	3.91E-05	6.77E-04
Acetaldehyde	7.67E-04	1.33E-02
Acrolein	9.25E-05	1.60E-03
Benzene	9.33E-04	1.62E-02
Formaldehyde	1.18E-03	2.04E-02
PAH	1.68E-04	2.91E-03
Propylene	2.58E-03	4.47E-02
Toluene	4.09E-04	7.09E-03
Xylene	2.85E-04	4.94E-03
Total HAP Emissions		**0.49 (tpy)**

Methodology

Emission Factors are from AP-42, Chapter 3.3, Table 3.3-2, (Fifth Ed. 1996)

Potential Emissions (tpy) = Emission Factor (lb/mmbtu) * Annual Fuel Consumption (gal/yr) * Heat Capacity of Fuel (btu/gal) /1,000,000 / 2000

Appendix A: Emissions Calculations
Incineration
MM BTU/HR <100

Company Name: Franklin Power Products / International Fuel Systems
Address City IN Zip: 751 International Drive, Franklin, Indiana 46131
Permit Number: 081-20601
Plt ID: 081-00056
Reviewer: Jenny Acker
Date: February 3, 2005

	Heat Input Capacity MMBtu/hr		Potential Throughput MMCF/yr
O-1 - O-11 (combined)	13.90		119.4

Emissions from Natural Gas Combustion of Ovens

Source ID: P005	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	75.0	75.0	0.6	100	5.5	84.0
Potential Emission in tons/yr	4.48	4.48	0.04	5.97	0.33	5.01
Totals	**4.48**	**4.48**	**0.04**	**5.97**	**0.33**	**5.01**

*PM and PM-10 emission factors from oven manufacturer
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,020,000 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 Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Source ID: P005	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	1.253E-04	7.163E-05	4.477E-03	1.074E-01	2.029E-04

Source ID: P005	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	2.984E-05	6.566E-05	8.356E-05	2.268E-05	1.253E-04

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

Appendix A: Emissions Calculations
Incineration

Company Name: Franklin Power Products / International Fuel Systems
Address City IN Zip: 751 International Drive, Franklin, Indiana 46131
Permit Number: 081-20601
Plt ID: 081-00056
Reviewer: Jenny Acker
Date: February 3, 2005

Emissions from burn off of oily residual

Source: P005	Pollutant				
	PM*	PM10*	SO2	NOx	CO
Emission Factor in lb/10000 gallons oil burned	64.0	51.0	73.5 S % = .5	19.0	5.0

Unit ID	Residual Oil Burned	Potential Emission				
O-1 - O11 (lb/hr)	314.0	0.26	0.20	0.29	0.08	0.02
O-1 - O11 (tpy)	1375.3	1.12	0.89	1.28	0.33	0.09
PTE (tpy)oil burnoff		1.12	0.89	1.28	0.33	0.09

Methodology:

One gallon of Residual Oil = 7.88 lbs
Emission factors from AP-42 chp. 1, tables 1.11-1 and 2 (small boilers) for Waste Oil (crankshaft) mixed with Residual Oil
Sulfur % = 5 from ASTM standards for motor oil

Emissions (lb/hr) = Residual Oil Burned * 1 gallon / 7.88 lbs * Emission factor/10000
Emissions (lb/hr) = Emissions (lb/hr) * 8760 (hrs/yr) / 2000 (lbs/ton)

HAP	Emission Factor in lb/10000 gallons oil burned	Emissions (tpy) Oil Burn-off	**Emissions (tpy) Combustion & Oil Burn-off**
Arsenic	1.10E-01	1.92E-03	1.92E-03
Benzene			1.25E-04
Formaldehyde			4.48E-03
Hexane			1.07E-01
Toluene			2.03E-04
Cadmium	9.30E-03	1.62E-04	2.28E-04
Chromium	2.00E-02	3.49E-04	4.33E-04
Cobalt	2.10E-04	3.67E-06	3.67E-06
Lead			2.98E-05
Manganese	6.80E-02	1.19E-03	1.21E-03
Nickel	1.10E-02	1.92E-04	3.17E-04
Phenol	2.40E-03	4.19E-05	4.19E-05
Dichlorobenzene	8.00E-07	1.40E-08	7.16E-05
Naphthalene	1.30E-02	2.27E-04	2.27E-04
Phenanthrene / anthracene	1.10E-02	1.92E-04	1.92E-04
Butylbenzylphthalate	5.10E-04	8.90E-06	8.90E-06
Bis(2-ethylhexyl)phthalate	2.20E-03	3.84E-05	3.84E-05
Pyrene	7.10E-03	1.24E-04	1.24E-04
Benz(a)anthracene/chrysene	4.00E-03	6.98E-05	6.98E-05
Benzo(a)pyrene	4.00E-03	6.98E-05	6.98E-05
PTE (tpy)		4.59E-03	**1.17E-01**

Appendix A: Emission Calculations

Abrasive Blasting - Summary

Company Name: Franklin Power Products / International Fuel Systems
Address City IN Zip: Franklin, IN
Permit Number: 081-20601
Plt ID: 081-00056
Reviewer: Jenny Acker
Date: April 14, 2005

Unit	Uncontrolled PM (lbs/hr)	Uncontrolled PM (tpy)	Uncontrolled PM10 (lbs/hr)	Uncontrolled PM10 (tpy)	Controlled PM (lbs/hr)	Controlled PM (tpy)	Controlled PM10 (lbs/hr)	Controlled PM10 (tpy)	Limited (326 IAC 2-8) PM10 (tpy)
SSB #7	25.60	112.13	22.02	96.43	0.26	1.12	0.44	1.93	6.75
SSB #4	30.40	133.15	26.14	114.51	0.30	1.33	0.52	2.29	3.44
SSB #5	30.40	133.15	26.14	114.51	0.30	1.33	0.52	2.29	3.44
SSB #6	30.40	133.15	26.14	114.51	0.30	1.33	0.52	2.29	3.44
SSB #3	51.20	224.26	44.03	192.86	0.51	2.24	0.88	3.86	5.79
SSB #2	69.60	304.85	59.86	262.17	0.70	3.05	1.20	5.24	7.87
SSB #1	60.80	266.30	52.29	229.02	0.61	2.66	1.05	4.58	6.87
SSB #8	60.80	266.30	52.29	229.02	0.61	2.66	1.05	4.58	6.87
GGB#1	0.19	0.81	0.13	0.57	0.00	0.01	0.00	0.01	0.02
GGB#2	0.19	0.81	0.13	0.57	0.00	0.01	0.00	0.01	0.02
GGB#3	0.19	0.81	0.13	0.57	0.00	0.01	0.00	0.01	0.02
SB#1	2.92	12.81	2.05	8.97	0.03	0.13	0.04	0.18	0.27
GGB#4	0.49	2.17	0.49	2.17	0.00	0.02	0.00	0.02	0.07
GGB#5	0.49	2.17	0.35	1.52	0.00	0.02	0.01	0.03	0.05
GGB#6	0.49	2.17	0.35	1.52	0.00	0.02	0.01	0.03	0.05
GGB#7	0.49	2.17	0.35	1.52	0.00	0.02	0.01	0.03	0.05
GGB#8	0.49	2.17	0.35	1.52	0.00	0.02	0.01	0.03	0.05
GGB#9	0.49	2.17	0.35	1.52	0.00	0.02	0.01	0.03	0.05
PPB#1	0.68	2.99	0.48	2.09	0.01	0.03	0.01	0.04	0.06
PPB#2	0.68	2.99	0.48	2.09	0.01	0.03	0.01	0.04	0.06

	Uncontrolled PM (tpy)	Uncontrolled PM10 (tpy)	Controlled PM (tpy)	Controlled PM10 (tpy)	Limited (326 IAC 2-8) PM10 (tpy)
Totals =	1607.52	1377.65	16.08	27.53	45.19

Methodology

The limited (326 IAC 2-8) PTE is based on 97% dust collector efficiency.
The source will be in compliance with the PM10 (326 IAC 2-8) limit by operating the baghouses at all times the units are in operation.

The uncontrolled PM10 is less than the uncontrolled PM. However, the application cites 99% control efficiency for PM and 98% control efficiency for PM10. Therefore the controlled emissions of PM10 are higher than the controlled emissions for PM.