DATE: April 28, 2008

TO: Interested Parties / Applicant

RE: Indianapolis Airport Authority / SPM097-25025-00156

FROM: Timothy J. Method
Environmental Coordinator

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 501, Indianapolis, IN 46204, **within fifteen (15) days of the receipt 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.

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

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

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

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

Enclosures

April 28, 2008

CERTIFIED MAIL 7007 0710 0005 3965 7463

Mr. Todd Cavender
Environmental Manager
Indianapolis Airport Authority
2500 South High School Road
Indianapolis, Indiana 46241

Re: Second Significant Permit Modification (SPM)
SPM097-25025-00156 to Part 70 Operating
Permit T097-9602-00156

Dear Mr. Cavender:

The Indianapolis Airport Authority (IAA) was issued Part 70 Operating Permit No. T097-9602-00156 on June 26, 2003 for an aerospace vehicle maintenance center. A Significant Permit Modification application was received from IAA on July 9, 2007 requesting to construct and operate emergency generators, boilers and Jet A fuel storage tanks associated with the New Indianapolis Airport project into the existing Part 70 Operating Permit. The application is assigned the tracking number SPM No. 097-25025-00156.

Pursuant to the provisions of 326 IAC 2-7-12(d), the Part 70 Operating Permit is hereby modified as described in the attached Technical Support Document for a Significant Permit Modification to a Part 70 Operating Permit.

The page numbering in the Table of Contents has been updated to reflect the effect of the Modification on the renumbering of pages. All other conditions of the permit shall remain unchanged and in effect. Please find attached a copy of the revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Mark Caraher at (317) 327-2272 or mcaraher@indygov.org.

Sincerely,

ORIGINAL SIGNED BY

Timothy J. Method
Environmental Coordinator

Department of Public Works
Office of Environmental Services
2700 Belmont Avenue
Indianapolis, IN 46221
317-327-2234
Fax 327-2274
TDD 327-5186
indygov.org/dpw

Enclosure: Revised Permit
Technical Support Document
Notice of Decision

mbc

cc: Files
Permits – Mark Caraher
Compliance - Matt Mosier
U.S. EPA, Region V
Mindy Hahn, IDEM OAQ
Marion County Health Department

PART 70 OPERATING PERMIT
INDIANA DEPARTMENT OF ENVIRONMENT MANAGEMENT
OFFICE OF AIR QUALITY
and
CITY OF INDIANAPOLIS
OFFICE OF ENVIRONMENTAL SERVICES

Indianapolis Airport Authority
2825 West Perimeter Road,
2745 South Hoffman Road, and
2500 South High School Road
Indianapolis, Indiana 46241

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17 and the Code of Indianapolis and Marion County, Chapter 511. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Operation Permit No.: T097-9602-00156	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality John Chavez, Administrator, OES	Issuance Date: June 26, 2003 Expiration Date: June 25, 2008

First Part 70 Administrative Amendment No.: 097-21243-00156, issued October 14, 2005.
Second Part 70 Administrative Amendment No.: 097-22385-00156, issued December 29, 2005.
Third Part 70 Administrative Amendment No.: 097-23165-00156, issued on November 30, 2006.
First Part 70 Significant Permit Modification No.: 097-23240-00156, issued on August 8, 2007.

Second Part 70 Significant Permit Modification No.: SPM097-25025-00156	Conditions Affected: Entire Permit
Issued by: ORIGINAL SIGNED BY Timothy J. Method Environmental Coordinator	Issuance Date: April 28, 2008 Expiration Date: June 25, 2008

TABLE OF CONTENTS

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and City of Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 and A.3 through A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

This source consists of an airfield, a stationary aerospace vehicle maintenance center which performs various maintenance tasks on aircraft and a central energy plant.

Source Address:	2825 West Perimeter Road, Indianapolis, Indiana 46241, 2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241, and 2500 South High School Road, Indianapolis, Indiana 46241
Mailing Address:	2500 South High School Road, Indianapolis, Indiana 46241
General Source Phone Number:	(317) 757-2536
SIC Code:	4581
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 Attainment for all other criteria pollutants.
Source Status:	Part 70 Permit Program Minor Source, Section 112 of the Clean Air Act and Nonattainment New Source Review Major Source under PSD Rules Nested Source with fossil fuel fired boilers (or combinations thereof) totalling more than two hundred fifity million (250,000,000) British thermal units per hour heat input, as 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This airfield, aerospace vehicle maintenance center and central energy plant source consists of four (4) plants:

(a) Plant 1, Indianapolis Airport Authority (097-00156), is located at 2825 West Perimeter Road, Indianapolis, Indiana 46241 and 2500 South High School Road (and various collocated addresses), Indianapolis, Indiana 46241;

(b) Plant 2, BHMM Energy Services, LLC - IMC Central Energy Plant (097-00586), is located at 2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241;

(c) Plant 3 AAR Aircraft Services, Indianapolis (097-00559), is located at 2825 West Perimeter Road, Indianapolis, Indiana 46241; and

(d) Plant 4 Indianapolis Diversified Machining, Inc. (097-00560), is located at 2825 West Perimeter Road, Suite 106, Indianapolis, Indiana 46241.

IDEM, OAQ and OES have determined that since the four (4) plants are located on contiguous or adjacent properties and are under common control of the same entity, the Indianapolis Airport Authority, they will be considered one (1) source, effective from the date of issuance of this Part 70 Significant Permit Modification. These four (4) plants are considered one source because the

aerospace vehicle maintenance center and the airfield are under the common control of the Indianapolis Airport Authority. The on-site powerhouse operated by BHMM Energy Services, LLC is dedicated to the aerospace vehicle maintenance center and the New Indianapolis Airport which the Indianapolis Airport Authority owns and operates. AAR Aircraft Services, Indianapolis will occupy the majority of the aircraft hangars at the aerospace vehicle maintenance center. Indianapolis Diversified Machining, Inc. receives from AAR Aircraft Services, Indianapolis more than fifty percent (50%) of its work flow and supplies these goods and services back to AAR Aircraft Services, Indianapolis. Therefore, the term "source" in the Part 70 documents refers to the Indianapolis Airport Authority (IAA), BHMM Energy Services, LLC, AAR Aircraft Services, Indianapolis and Indianapolis Diversified Machining, Inc. as one source.

Separate Part 70 permits will be issued to Indianapolis Airport Authority with Permit No.: T097-25025-00156, BHMM Energy Services, LLC with Permit No.: T097-22919-00586, AAR Aircraft Services, Indianapolis with Permit No.: T097-21245-00559, and Indianapolis Diversified Machining, Inc. with Permit No.: T097-21325-00560 solely for administrative purposes.

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

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

(a) One (1) service hangar, located at 2825 West Perimeter Road**,** with activities relating to the coating of aircraft parts, identified as emission unit Hangar 7, used for routine and nonroutine maintenance, with paint booths using high volume, low pressure (HVLP) spray application systems. Hangar 7 commenced operation July 15, 1997.

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station # 1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower.

Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

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

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

(a) The following degreasing operations that do not individually exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3]:

(1) Six (6) parts cleaners located in Hangar 7.

(2) One (1) System One cold cleaner degreaser and one (1) Mirachem cold cleaner degreaser each located in the Airfield Maintenance Building at 2500 South High School Road.

(b) Grinding and machining operations located in Hangar 7 and controlled with fabric filters, scrubbers, mist collectors, wet collectors, electrostatic precipitators, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations with uncontrolled potential to emit of less than five (5) pounds of PM-10 per hour and less than twenty five (25) pounds of PM-10 per day. [326 IAC 6-3]

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

(d) The following activities or categories not previously identified which have potential emissions less than significance thresholds listed under 326 IAC 2-7-1(21): [326 IAC 6-3]

(1) The following emission units located in Hangar 7 with potential VOC emissions less than 3 pounds per hour, potential PM emissions less than 5 pounds per hour and potential HAP emissions less than 1 ton per year:
(A) Downdraft Benches
(B) ECB Booth
(C) Fugitives (Cleaning)
(D) Sanding Benches
(E) Touchup Booths

(e) Cleaners and solvents characterized as having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38^{o}C (100^{o}F) or having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20^{o}C (68^{o}F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months. Cleaning operations include hand wiping and spray gun cleaning. These activities are located in Hangar 7. Potential VOC emissions are less than 3 pounds per hour and potential HAP emissions are less than 1 ton per year. [40 CFR 63, Subpart GG][326 IAC 20]

(f) Three (3) Pacific National boilers fired by natural gas, each boiler is located at 2500 South High School Road in the Main Terminal building and each boiler was installed in 1966 and permitted in 2007. The three boilers are identified as:

(1) Boiler # 1, identified as emission unit Boiler # 1, with maximum heat input capacity of 13 million Btu per hour, exhausting to stack # 1. [326 IAC 6-2-2]

(2) Boiler # 2, identified as emission unit Boiler # 2, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 2. [326 IAC 6-2-2]

(3) Boiler # 3, identified as emission unit Boiler # 3, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 3. [326 IAC 6-2-2]

(g) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including the following:

(1) One (1) Kewanee boiler, identified as Boiler # 4, installed in 1974 and permitted in 2007, with maximum heat input capacity of 8.4 million Btu per hour, located in the Airfield Maintenance building at 2500 South High School Road. [326 IAC 6-2-2]

(2) One (1) Weil McClain boiler, identified as Boiler # 5, installed in 1974 and permitted in 2007, with maximum heat input capacity of 3.25 million Btu per hour, located in the International Arrivals building at 2500 South High School Road. [326 IAC 6-2-2]

(3) Two (2) natural gas fired boilers in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 019 and 020. Each boiler is rated at 0.75 million Btu per hour. Emission unit 019 and emission unit 020 are each approved to construct in 2008. [326 IAC 6-2-4]

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T097-9602-00156, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

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

B.4 Enforceability [326 IAC 2-7-7]

(a) 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, OES, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

(b) The Indianapolis Air Pollution Control Board (IAPCB) has adopted by reference state rules listed in Attachment A of this permit. The version adopted by reference includes all amendments, additions and repeals filed with the Secretary of State through August 10, 1997 and published in the Indiana Register on September 1, 1997, unless otherwise indicated in the adoption by reference or in Appendix A. For the purposes of this permit, all state rules adopted by reference by the IAPCB are enforceable by OES using local enforcement procedures. Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by OES.

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, and OES within a reasonable time, any information that IDEM, OAQ, and OES may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, and OES copies of records required to be kept by this permit.

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

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

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

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

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

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

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

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

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

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific conditions 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

(b) A copy of the PMPs shall be submitted to IDEM, OAQ, and OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and OES. IDEM, OAQ, and OES may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.11 Emergency Provisions [326 IAC 2-7-16]

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

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

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

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

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

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

Telephone Number: 1-800-451-6027 (ask for IDEM, OAQ, Compliance Section), or:
Telephone Number: 317-233-0178 (ask for IDEM, OAQ, Compliance Section)
Facsimile Number: 317-233-6865;

and

Telephone Number: 317-327-2234 (ask for OES, Air Compliance)
Facsimile Number: 317-327-2274.

(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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

(A) A description of the emergency;

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

(C) Corrective actions taken.

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

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

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

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

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

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

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

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

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

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a

determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

(b) In addition to the nonapplicability determinations set forth in Sections D of this permit, the IDEM, OAQ has made the following determination regarding this source:

(1) All references to Boiler 1 as being a 10.24 MMBtu/hr boiler were revised to refer to this emission unit as a 12.6 MMBtu/hr boiler. All emission calculations will reflect this revised capacity.

(2) All references to Boiler 2 as being a 20.49 MMBtu/hr boiler were revised to refer to this emission unit as a 25.2 MMBtu/hr boiler. All emission calculations will reflect this revised capacity.

(3) All references to boilers 3 and 4 (Emission Units 3 and 4) as being a 106 MMBtu/hr boilers were revised to refer to these emission unit as a 122 MMBtu/hr boilers. All emission calculations will reflect this revised capacity.

(4) Condition 15f of 096-00156-01 was amended to specify that small aerosol spray paint cans are not included.

(5) All references to 326 IAC 2-1 from previous construction permits were amended to refer to 326 IAC 2-1.1

(6) The requirement from condition 9 of 096-00156-01, issued November 25, 1996, listing requirements pursuant to 326 IAC 6-1-2(b)(4) and pursuant to 326 IAC 6-1-2(b)(5) are not applicable since the actual PM emissions do not exceed 10 tons per year and potential PM emissions do not exceed 100 tons per year. IDEM, OAQ and OES have determined that there was an error in rule applicability in the previous construction permit.

(7) The requirement from condition 13 of 096-00156-01, issued November 25, 1996, listing requirements to estimate the Jet A fuel equivalence in cubic feet of natural gas in order to stay below SO_2 emission limitations, and to keep records of this usage is not necessary because equivalent natural gas usage greatly exceeds source wide potential natural gas usage.

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

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

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

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

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

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

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

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

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

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

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T097-9602-00156 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

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

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

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

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

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

(1) That this permit contains a material mistake.

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

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

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

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, or OES at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, or OES may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

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

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

Request for renewal shall be submitted to:

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

and

Indianapolis OES
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, and OES, 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, and OES, any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

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

(b) 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

Indianapolis OES
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

and

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

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

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

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

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

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

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

(3) Any change in emissions; and

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

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

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

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

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

B.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2] [326 IAC 2-3]

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

(b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

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

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

permit;

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

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

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

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

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

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

and

Indianapolis OES
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, and OES 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, or OES, the applicable fee is due April 1 of each year.

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

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-

4230 (ask for OAQ, Billing, Licencing, and Training Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

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

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

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

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

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

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

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

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

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of

326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Asbestos Section
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.8 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, and OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and OES if the Permittee submits to IDEM, OAQ, and OES a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

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

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

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

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

C.11 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

(b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR 60, Subpart Db.

C.12 Maintenance of Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.

(b) In the event that a breakdown of a continuous opacity monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) Whenever a continuous opacity monitor (COM) is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup COM shall be brought on line within four (4) hours of shutdown of the primary COM, if possible. If this is not possible, visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of one (1) hour beginning four (4) hours after the start of the malfunction or down time.

(1) If the reading period begins less than one hour before sunset, readings shall be performed until sunset. If the first required reading period would occur between sunset and sunrise, the first reading shall be performed as soon as there is sufficient daylight.

(2) Method 9 opacity readings shall be repeated for a minimum of one (1) hour at least once every four (4) hours during daylight operations, until such time that the continuous opacity monitor is back in operation. observations within four hours of the second abnormal notation.

(3) All of the opacity readings during this period shall be reported in the Quarterly Deviation and Compliance Monitoring Reports.

(d) Nothing in this condition or in Section D of the permit, shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, and 40 CFR 63, Subpart D.

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

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

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

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

C.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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on November 27, 1996.

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

(c) Upon direct notification by IDEM, OAQ, and OES, 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 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

(a) A compliance schedule for meeting the requirements of 40 CFR 68; or

(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

(c) A Risk Management Plan was prepared as required by 40 CFR 68 and submitted to IDEM, OAQ and OES.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(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 and OES 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 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 timeframe 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 Plan; 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, the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the 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 a minor permit modification 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 2-7-16 (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.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, and OES 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, and OES that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ, and OES may extend the retesting deadline.

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

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

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

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

(a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants (as defined by 326 IAC 2-7-1(32)) ("Regulated pollutant which is used only for purposes of Section 19 of this rule") from the source, for purposes of Part 70 fee assessment.

The emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]

(a) Records of all required data, reports and support information 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 or the OES Administrator makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or the OES Administrator 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) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit or at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:
  (A) A description of the project.
  (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
  (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
    (i) Baseline actual emissions;
    (ii) Projected actual emissions;
    (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(3));

and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2][326 IAC 2-3]

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

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

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

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

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

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in an applicable rule.

(f) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing Electric Utility Steam Generating Unit, then for

that project the Permittee shall:

(1) Submit to IDEM, OAQ and OES a copy of the information required by (c)(1) in Section C - General Record Keeping Requirements

(2) Submit a report to IDEM, OAQ and OES within sixty (60) days after the end of each year during which records are generated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements. The report shall contain all information and data describing the annual emissions for the emissions units during the calendar year that preceded the submission of report.

Reports required in this part shall be submitted to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

(g) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit other than Electric Utility Steam Generating Unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and OES:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

(h) The report for a project at an existing emissions unit other than Electric Utility Steam Generating Unit shall be submitted within sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).

(4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

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

Stratospheric Ozone Protection

C.22 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

This Section intentionally left blank.

SECTION D.2 FACILITY OPERATION CONDITIONS

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SECTION D.3 FACILITY OPERATION CONDITIONS

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SECTION D.4 FACILITY OPERATION CONDITIONS

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SECTION D.5 FACILITY CONDITIONS

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

(a) One (1) service hangar, located at 2825 West Perimeter Road, with activities relating to the coating of aircraft parts, identified as emission unit Hangar 7, used for routine and non routine maintenance, with paint booths using high volume, low pressure (HVLP) spray application systems. Hangar 7 commenced operation July 15, 1997.

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

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

D.5.1 Volatile Organic Compound (VOC) [326 IAC 8-1-6] [CP096-00156-01 Condition 15]

Pursuant to CP096-00156-01 Condition 15, issued November 25, 1996, and to operating procedures outlined in the top down BACT analysis in accordance with 326 IAC 8-1-6, the Permittee shall achieve Best Available Control Technology for coatings used in the Service Hangars and Indirect Support Shops as specified below:

(a) The Permittee shall not apply to aerospace components any coating in the following categories with a VOC content in excess of the following limits (except as noted in condition b), expressed as grams of VOC per liter (lbs/gal) of coating as applied, excluding water:

Coating Category	VOC Content	
	g/liter	lbs/gal
Primer – coatings applied directly to the aerospace component for the purpose of corrosion prevention, protection from the environment, functional fluid resistance and adhesion of subsequent coatings.	350	2.9
Adhesive bonding primer – coatings applied in a very thin film to aerospace metal for the primary purpose of providing a primer for a subsequent coating of structural adhesive.	850	7.1
Interior Topcoat – coating used in interior habitable spaces of aircraft.	340	2.8
Electric or Radiation Effect Coating – Electrical conductive or insulative coatings and coatings used on radar and antennae enclosures.	800	6.7
Extreme Performance and Interior Topcoat – A topcoat used in interior spaces of the aircraft areas requiring fluid, stain or nicotine barrier.	420	3.5
Fire Insulation Coating – Coatings used to provide a layer of insulation in the event of an aircraft or engine fire.	600	5.0
Fuel Tank Coating – Coatings applied to the interior of a fuel tank or fuel wetted area of the aircraft to protect it from corrosion.	720	6.0
High Temperature Coating – A coating that during its normal use must withstand temperatures in excess of 350 degrees Fahrenheit.	720	6.0
Sealant – A coating applied for the purpose of filling voids and providing a barrier against penetration of water, fuel or other fluids or vapors.	600	5.0
Self-priming Topcoat – A coating applied directly to the aerospace component that is not subsequently over coated.	420	3.5
Topcoat – Coatings applied over a primer or intermediate coating for the purposes such as appearance, identification or protection.	420	3.5
Pretreatment Wash Primer – A coating which contains a minimum of 0.5% acid by weight for surface etching and is applied directly to a bare metal surface to provide corrosion resistance and adhesion.	420	3.5
Sealant Bonding Primer – A coating applied in a very thin film to an aerospace component for the purposes of providing a primer for subsequent coat of a silicon sealant.	720	6.0

Coating Category	VOC Content	
	g/liter	lbs/gal
Temporary Protection Coating – A coating applied to an aerospace component to protect it from any mechanical or environmental damage during manufacturing.	250	2.1

(b) The aforementioned coating requirements shall not apply to:

(1) Application of coating to assembled printed circuit boards

(2) Coating of paper, fabrics and films

(3) Applications of adhesives

(4) Use of Adhesive bonding primers that have a cure temperature in excess of 325F

(5) Use of hand held non refillable aerosol cans

(6) Application of coatings by template or hand in order to add designs, letters and/or numbers to the products

(7) Application of a solid film lubricant (anti chafe coating)

(8) Coating of test panels used to evaluate coating performance

(9) Use of low usage coating which are coating with separate formulations that are used in volumes of less than 20 gallons per calendar year, provided that the requirements of D.5.1(c) are met and no more than 200 gallons of low usage coatings may be classified as exempt per year.

(c) Annually the Permittee shall provide a list in writing to OES of coatings to be covered under the low usage exemptions D.5.1(b)(9) for the following calendar year, the expected volume to be used and the maximum VOC content. The Permittee shall notify OES in writing of any additional coatings added to this list during the calendar year.

(d) The Permittee shall maintain a document containing a list of all coatings with coating limitations which may be used during the following year, the coating category, the VOC limit for the coating category, the mix ratio (if applicable), and VOC content of the coating as applied expressed as pounds per gallon of coating less water. This document will be updated periodically and in the interim, memos containing the required information will be issued as needed for new coatings or reformulations of existing coatings.

(e) Compliance with the coating limitations shall be based on methods specified in 326 IAC 8-1-4(a).

(f) The Permittee shall utilize High Volume, Low Pressure (HVLP) and/or touch up guns transfer technology when applying coatings by spray. HVLP shall mean coating equipment which is used to apply coatings by means of a gun that operates between 0.1 and 10 psig air atomizing spray. Touch up guns shall mean small air spray equipment, including air brushes, that operate at no greater than 5 cfm air flow and no greater than 50 psig air pressure. These requirements do not apply to aerosol spray paint cans or the following:

(1) The application of coatings to surface areas with limited access due to visual impairment which requires a 360 degree spray gun extension.

(2) The application of waterborne extreme performance interior topcoat coating.

(3) The application of adhesive bonding primers and pretreatment was primers.

(4) The application of a textured finish coat. A textured finish coat shall be considered any coating used to produce a non smooth, patterned surface that is intentionally produced and applied as a final coat by spraying drops of coating over a previously applied base coat.

D.5.2 General Provisions Relating to HAPs [326 IAC 20-1-1][40 CFR Part 63, Subpart A]

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

D.5.3 Aerospace NESHAP [40 CFR 63 Subpart GG] [326 IAC 20]

This source is subject to the National Emission Standards for Hazardous Air Pollutants, 326 IAC 20, (40 CFR 63.741, Subpart GG), even though HAP emissions are less than the major source thresholds, because the potential to emit HAPs at the time of rule promulgation was assumed to be greater than the major source thresholds (based on EPA determination).

(a) Except for coating and coating operations listed in 40 CFR 63.742 or those coatings or coating operations listed in 40 CFR 63.741(f), the following conditions apply to uncontrolled primer coating operations. Organic HAP and VOC content limits: 350 grams/liter (2.9 lb/gal less water for HAP and less water and exempt solvents for VOC) as applied. Compliance shall be achieved through:

(1) using coatings below content limits, or

(2) using monthly volume weighted averaging (primers only) to meet content limits [40 CFR 63.745(e)]

(b) Except for the use of specialty coatings as defined in 40 CFR 63.742 or those coatings or coating operations listed in 40 CFR 63.741(f), the following conditions apply to uncontrolled topcoat coating operations. Organic HAP and VOC content limit: 420 g/l (3.5 lb/gal less water for HAP, and less water and exempt solvents for VOC) as applied. [40 CFR 63.745(c)(3),(4)] Compliance shall be achieved through:

(1) using coatings below content limits, or

(2) Using monthly volume weighted averaging (topcoats) to meet content limits [40 CFR 63.745(e)]

(c) With respect to all coating applications operations, the following conditions apply:

(1) Pursuant to 40 CFR 63.745(b), minimize spills during handling and transfer of all materials. Pursuant to 40 CFR 63.748 minimize spills during handling and transfer of waste materials which contain HAPs.

(2) Pursuant to 40 CFR 63.745(f)(1), specific application techniques must be used.

(3) Pursuant to 40 CFR 63.745(f)(2), all application equipment must be operated according to manufacturer's specifications, company procedures, or operating procedures (whichever is more stringent).

(4) Pursuant to 40 CFR 63.745(g)(2), operating requirements must be followed for the application of primers or topcoats that contain inorganic HAP, including control with particulate filters (see Tables 1 through 4 of 40 CFR 63.745). Painting operation(s) must be shutdown if operated outside manufacturer's specified limits.

D.5.4 Particulate [326 IAC 6-3-2(d)]

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

D.5.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control devices.

Compliance Determination Requirements

D.5.6 Volatile Organic Compounds [40 CFR 63, Subpart GG][326 IAC 20]

Compliance with the VOC content and usage limitations contained in Condition D.5.1 and D.5.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) using formulation data supplied by the coating manufacturer. However, IDEM, OAQ, and OES reserve the right to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.5.7 VOC Emissions [40 CFR 63, Subpart GG][326 IAC 20]

Pursuant to 40 CFR 63.749(d)(1), for uncontrolled coatings that are not averaged, each 24 hour period is considered a performance test; for uncontrolled coatings which are averaged, each 30 day period is considered a performance test. An organic HAP content level determination is made pursuant to 40 CFR 63.750(c) and (d), and a VOC content level determination is made pursuant to 40 CFR 63.750(e) and (f). An initial performance test is required for all control devices used to control VOC and organic HAPs to demonstrate compliance with overall control efficiency requirements, pursuant to 40 CFR 63.749(d)(2).

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

D.5.8 Dry Particulate Filters [40 CFR 63, Subpart GG][326 IAC 20]

Pursuant to 40 CFR 63.751(c)(1), the Permittee shall, while the primer or topcoat application operations are occurring, continuously monitor the pressure drop across the system, and read and record pressure drop once per shift.

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

D.5.9 Record Keeping Requirements

(a) To document compliance with Condition D.5.1 and 326 IAC 8-1-6, the Permittee shall maintain documentation for all coatings containing the name of the coating, VOC content as received and applied, the mix ratio (if applicable), and the VOC content of the coating as applied expressed as pounds per gallon of coating less water. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents. The documentation will be updated periodically and in the interim, memos containing the required information will be issued as needed for new coatings or reformulations of existing coatings.

(b) Pursuant to 40 CFR 63.752(c)(2), for uncontrolled primer and topcoat applications that meet organic HAP and VOC content limits without averaging, the Permittee shall maintain documentation containing organic HAP and VOC contents as applied, data/calculations and test results used to determine HAP/VOC content as (H_i and G_i) and monthly usage.

(c) Pursuant to Conditions D.5.1, D.5.3 and 40 CFR 63.752(c)(3), for "Low HAP content" primer and topcoat applications (as described in 40 CFR 63.752(c)(3)), the Permittee shall maintain documents containing annual purchase records, and data/calculations and test results used to determine H_i or HAP/VOC content as applied.

(d) Pursuant to Conditions D.5.1, D.5.3 and 40 CFR 63.752(c)(4), for uncontrolled primer and topcoat applications complying with HAP or VOC content limits by averaging, the Permittee shall maintain documents containing: monthly volume weighted average values of HAP/VOC content (H_a and G_a), and data/calculations and test results used to calculate H_a and $G_{a.}$

(e) Pursuant to Conditions D.5.1, D.5.3 and 40 CFR 63.751(c)(1), the Permittee shall maintain a record of the pressure drop readings taken once per shift while the primer or topcoat applications are occurring.

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

D.5.10 Reporting Requirements

(a) A semi-annual summary of the information to document compliance with Condition D.5.1 and D.5.3 of this permit shall be submitted to the addresses listed in Section C - General Reporting Requirements within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). This summary shall include information that identify:

(1) For uncontrolled primer and topcoat applications that meet organic HAP and VOC content limits without averaging, each value of HAP/VOC content as (H_i and G_i) that exceeds the applicable HAP or VOC content limit specified in 40 CFR 63.745(c).

(2) for uncontrolled primer and topcoat applications complying with HAP or VOC content limits by averaging, each value of H_a and G_a that exceeds the applicable HAP or VOC content limit specified in 40 CFR 63.745(c).

(3) a statement certifying compliance with all requirements of 40 CFR 63, Subpart GG.

(b) An annual written report to document compliance with Conditions D.5.1(c) shall be submitted to OES including:

(1) coatings to be covered under the low usage exemptions D.5.1(b)(9) for the following calendar year,

(2) the expected volume to be used and the maximum VOC content.

(3) The Permittee shall notify OES in writing of any additional coatings added to this list during the calendar year.

(c) An annual report listing the number of times that the pressure drop for each dry filter system was outside the limits specified by the filter or booth manufacturer. [40 CFR 63.753(c)(2)]

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]
Specifically regulated insignificant activity:

(a) The following degreasing operations that do not individually exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3]:

(1) Six (6) parts cleaners located in Hangar 7.

(2) One (1) System One cold cleaner degreaser and one (1) Mirachem cold cleaner degreaser each located in the Airfield Maintenance Building at 2500 South High School Road.

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

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

D.6.1 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 owner or operator shall:

(a) Equip the cleaner with a cover;

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

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

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

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

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

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility, construction of which commenced after July 1, 1990, 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), 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.

SECTION D.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]
Specifically regulated insignificant activity:

(b) Grinding and machining operations located in Hangar 7 and controlled with fabric filters, scrubbers, mist collectors, wet collectors, electrostatic precipitators, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations with uncontrolled potential to emit of less than five (5) pounds of PM-10 per hour and less than twenty five (25) pounds of PM-10 per day. [326 IAC 6-3]

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

(d) The following activities or categories not previously identified which have potential emissions less than significance thresholds listed under 326 IAC 2-7-1(21): [326 IAC 6-3]

(1) The following emission units located in Hangar 7 with potential VOC emissions less than 3 pounds per hour, potential PM emissions less than 5 pounds per hour and potential HAP emissions less than 1 ton per year:

(A) Downdraft Benches
(B) ECB Booth
(C) Fugitives (Cleaning)
(D) Sanding Benches
(E) Touchup Booths

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

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

D.7.1 Particulate [326 IAC 6-3-2]

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

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

D.7.2 Particulate Matter (PM)

In order to comply with D.7.1, the dry filter systems for PM control shall be in operation and control emissions at all times that deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking are in operation.

SECTION D.8 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]
Specifically regulated insignificant activity:

(e) Cleaners and solvents characterized as having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38°C (100°F) or having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months. Cleaning operations include hand wiping and spray gun cleaning. These activities are located in Hangar 7. Potential VOC emissions are less than 3 pounds per hour and potential HAP emissions are less than 1 ton per year. [40 CFR 63, Subpart GG][326 IAC 20]

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

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

D.8.1 General Provisions Relating to HAPS [326 IAC 20-1][40 CFR Part 63, Subpart A]

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

D.8.2 Aerospace NESHAP [40 CFR 63 Subpart GG][326 IAC 20]

This facility is subject to the National Emission Standards for Hazardous Air Pollutants for Aerospace Manufacturing and Rework Facilities, 326 IAC 20-15 (40 CFR 63.741, Subpart GG).

Cleaning Solvent Type	Composition Requirements
Aqueous	Cleaning solvents in which water is the primary ingredient (> 80 percent of cleaning solvent solution as applied must be water). Detergents surfactants, and bioenzyme mixtures and nutrients may be combined along with a variety of additives, such as organic solvents (e.g. high boiling point alcohols, builders, saponifiers, inhibitors, emulsifiers, pH buffers, and antifoaming agents). Aqueous solutions must have a flash point greater than 93 C (200F) (as reported by the manufacturer), and the solution must be miscible with water.
Hydrocarbon Based	Cleaners that are composed of photochemically reactive hydrocarbons and/or oxygenated hydrocarbons and have a maximum vapor pressure of 7 mm Hg at 20C (3.75 in H20 and 68F). Those cleaners also contain no HAP.

(a) The following housekeeping requirements apply pursuant to 40 CFR 63.744(a) unless the cleaning solvent used is identified in Table 1 of 40 CFR 63.744 (shown above), or contains HAP and VOC below the deminimus levels specified in 40 CFR 63.741(f).

(1) Pursuant to 40 CFR 63.744(a)(1), the Permittee shall place cleaning solvent laden cloth, paper or other absorbent applicators in bags or other closed containers upon completing their used.

(2) Pursuant to 40 CFR 63.744(a)(2), the Permittee shall store fresh and spent cleaning solvents (except semi-aqueous) in closed containers.

(3) Pursuant to 40 CFR 63.744(a)(3), the Permittee shall conduct the handling and transfer of cleaning solvents to or from enclosed systems, vats, waste containers, and other cleaning operation equipment that hold or store fresh or spent cleaning

solvents in a way which minimizes spills.

(b) Except for the cleaning of spray gun equipment performed in accordance with 40 CFR 63.744(c)(3), all hand wipe cleaning solvents must meet the composition requirements identified in Table 1 of 40 CFR 63.744 (above) or have a composite vapor pressure at or below 45 mm Hg at 20C.

(c) For spray gun cleaning operations, the Permittee shall use one of the four specified techniques or their equivalent, pursuant to 40 CFR 63.744(c).

(d) For enclosed spray gun cleaners, if leaks are found during the monthly inspection, source should repair as soon as practicable, but within 15 days, pursuant to 40 CFR 63.744(c)(1)(ii).

(e) If cleaning solvent solutions that contain HAP and VOC below the deminimis levels are used, those cleaning operations using such solutions are exempt from the requirements of 40 CFR 63.744(c)

(f) For flush cleaning operations source must empty used cleaning solvent into enclosed container, collection system, or system with equivalent emission control pursuant to 40 CFR 63.744(d).

Compliance Determination Requirements

D.8.3 Hand Wipe Cleaning [40 CFR 63.749(c)(1)]

An affected hand wipe cleaning operation shall be considered in compliance when all hand wipe cleaning solvents, excluding those used for hand wipe cleaning of spray gun equipment under 40 CFR 63.744(c), meet either the composition requirements specified in 40 CFR 63.744(b)(1) or the vapor pressure requirement specified in 40 CFR 63.744(b)(2).

D.8.4 Spray Gun Cleaning [40 CFR 63.749(c)(2)]

An affected spray gun cleaning operation shall be considered in compliance when each of the following conditions is met:

(a) One of four techniques specified in 40 CFR 63.744(c)(1) through (c)(4) is used:

(b) The technique selected is operated according to the procedures specified in 40 CFR 63.744(c)(1) through (c)(4) as appropriate; and

(c) If an enclosed system is used, monthly visual inspections are conducted and any leak detected is repaired within 15 days after detection. If the leak is not repaired by the 15th day after detection, the solvent shall be removed and the enclosed cleaner shall be shutdown until the cleaner is repaired or its use is permanently discontinued.

D.8.5 Flush Cleaning [40 CFR 63.749(c)(3)]

An affected flush cleaning operation shall be considered in compliance if the operating requirements specified in 40 CFR 63.744(d) are implemented and carried out.

D.8.6 Compliance Test Methods for Cleaning Operations [40 CFR 63.750(a) and (b)]

Permittee shall make composition determinations using manufacturing data [40 CFR 63.750(a)] or a vapor Pressure determination using readily available sources such as MSDS if single component; composite vapor pressure determined by manufacturer's supplied data or ASTM E 260-91 and by equation provided for multiple component solvents. [40 CFR 63.750(b)]

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

D.8.7 Monitoring Requirements for Cleaning Operations [40 CFR 63.751(a)]

Permittee shall conduct monthly visual leak inspection for enclosed spray gun cleaners in accordance with the requirements of 40 CFR 63.751(a).

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

D.8.8 Record Keeping Requirements for Cleaning Operations [40 CFR 63.752(b)]

(a) Pursuant to 40 CFR 63.752(b)(2), each cleaning solvent used in hand wipe cleaning operations that complies with the composition requirements specified in 40 CFR 63.744(b)(1) or for semi aqueous cleaning solvents used for flush cleaning operations:

(1) The name of each cleaning solvent used;

(2) all data and calculations that demonstrate that the cleaning solvent complies with one of the composition requirements; and

(3) annual records of the volume of each solvent used, as determined from facility purchase records or usage records.

(b) For each cleaning solvent used in hand wipe cleaning operations that does not comply with the composition requirements in 40 CFR 63.744(b)(1), but does comply with the vapor pressure requirements in 40 CFR 63.744(b)(2):

(1) The name of each cleaning solvent used;

(2) the composite vapor pressure of each cleaning solvent used;

(3) all vapor pressure test results, if appropriate data and calculations used to determine the composite vapor pressure of each cleaning solvent; and

(4) the amount (in gallons) of each cleaning solvent used each month at each operation.

(c) For each cleaning solvent used for the exempt hand wipe cleaning operations specified in 40 CFR 63.744(e) that does not conform to the vapor pressure or composition requirements of 40 CFR 63.744(b):

(1) The identity and amount (in gallons) of each cleaning solvent used each month at each operation; and

(2) a list of processes set forth in 40 CFR 63.744(e) to which the cleaning operation applies.

(d) A record of all leaks from enclosed spray gun cleaners identified pursuant to 40 CFR 63.751(a) that includes, for each leak found;

(1) Source identification;

(2) Date leak was discovered; and

(3) Date leak was repaired.

D.8.9 Reporting Requirements for Cleaning Operations [40 CFR 63.753(b)]

A semi-annual summary of the information to document compliance with Condition D.8.2 shall be

submitted to the address(es) listed in Section C - General Reporting Requirements, of this permit within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). The summary shall include:

(a) Statement certifying compliance. [40 CFR 63.753(b)(1)(v)]

(b) Semiannual report for hand wiping operations' noncompliant cleaning solvent used. [40 CFR 63.753(b)(1)(i)]

(c) Semiannual report of all new cleaning solvents and their composite vapor pressure or notifications of compliance with composition requirements. [40 CFR 753(b)(1)(ii)]

(d) Semiannual report of noncompliant spray gun cleaning method used. [40 CFR 63.753(b)(1)(iii)]

(e) Leaks from enclosed spray gun cleaners not repaired within 15 days. [40 CFR 63.753(b)(1)(iv)]

SECTION D.9 FACILITY OPERATION CONDITIONS

This Section intentionally left blank.

SECTION D.10 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]
Specifically regulated insignificant activity:

(f) Three (3) Pacific National boilers fired by natural gas, each boiler is located at 2500 South High School Road in the Main Terminal building and each boiler was installed in 1966 and permitted in 2007. The three boilers are identified as:

(1) Boiler # 1, identified as emission unit Boiler # 1, with maximum heat input capacity of 13 million Btu per hour, exhausting to stack # 1. [326 IAC 6-2-2]

(2) Boiler # 2, identified as emission unit Boiler # 2, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 2. [326 IAC 6-2-2]

(3) Boiler # 3, identified as emission unit Boiler # 3, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 3. [326 IAC 6-2-2]

(g) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including the following:

(1) One (1) Kewanee boiler, identified as Boiler # 4, installed in 1974 and permitted in 2007, with maximum heat input capacity of 8.4 million Btu per hour, located in the Airfield Maintenance building at 2500 South High School Road. [326 IAC 6-2-2]

(2) One (1) Weil McClain boiler, identified as Boiler # 5, installed in 1974 and permitted in 2007, with maximum heat input capacity of 3.25 million Btu per hour, located in the International Arrivals building at 2500 South High School Road. [326 IAC 6-2-2]

(3) Two (2) natural gas fired boilers in the Airport Operations Center-Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 019 and 020. Each boiler is rated at 0.75 million Btu per hour. Emission unit 019 and emission unit 020 are each approved to construct in 2008. [326 IAC 6-2-4]

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

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

D.10.1 Particulate [326 IAC 6-2-2]

(a) Pursuant to 326 IAC 6-2-2(b), particulate matter emitted from Boiler # 1, Boiler # 2 and Boiler # 3 shall each not exceed 0.49 pounds per million Btu heat input.

This limitation is based on the following equation:

$$Pt = \frac{0.87}{Q^{0.16}}$$

where: Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input.
Q = Total source maximum operating capacity rating in million Btu (MMBtu) per hour. The maximum heating 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. For Boiler # 1, Boiler # 2, and Boiler # 3, Q is equal to 38.00 MMBtu per hour.

(b) Pursuant to 326 IAC 6-2-2(c), particulate matter emitted from Boiler # 4 and Boiler # 5 shall each not exceed 0.47 pounds per million Btu heat input.

This limitation is based on the following equation:

$$Pt = \frac{0.87}{Q^{0.16}}$$

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

Q = Total source maximum operating capacity rating in million Btu (MMBtu) per hour. The maximum heating 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. For Boiler # 4 and Boiler # 5, Q is equal to 49.65 MMBtu per hour.

D.10.2 Particulate [326 IAC 6-2-4]

(a) Pursuant to 326 IAC 6-2-4(a), particulate matter emitted from emission unit 019 and emission unit 020 shall each not exceed 0.24 pounds per million Btu heat input.

This limitation is based on the following equation:

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

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. For emission unit 019 and emission unit 020, Q = 332.9.

SECTION D.11 FACILITY OPERATION CONDITIONS

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

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station # 1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower. Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

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

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

D.11.1 PSD Minor Limit [326 IAC 2-2]

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements), emission unit 013, 014, 015, 016, 017, 018 and 021 are each subject to the following requirements:

(a) NO_X emissions from emission unit 013, 014, 015, 016, 017 and 018 shall each not exceed 3.2 pounds per million Btu of heat input.

(b) NO_X emissions from emission unit 021 shall not exceed 4.41 pounds per million Btu of heat input.

(c) The total amount of diesel fuel and diesel fuel equivalents burned in emission units 013, 014, 015, 016, 017, 018 and 021 shall not exceed a combined total of 175,400 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. Every gallon of diesel fuel burned in emission unit 021 is equivalent to 1.38 gallons burned in emission unit 013, 014, 015, 016, 017 and 018.

Compliance with these emission limits, combined with the potential to emit from emission units 019 and 020, will limit the potential to emit from this project to less than forty (40) tons of NO_X emissions per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable.

D.11.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan in accordance with Section B - Preventive Maintenance Plan of this permit, is required for emission unit 013, 014, 015, 016, 017, 018, 019, 020 and 021.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.11.3 Record Keeping Requirements

To document compliance with preceding conditions D.11.1, the Permittee shall;

(a) Maintain records of the amount of diesel fuel and diesel fuel equivalents burned in emission unit 013, 014, 015, 016, 017, 018 and 021 each month.

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

D.11.4 Reporting Requirements

Quarterly summaries of the information to document compliance with Condition D.11.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION E.1 FACILITY OPERATION CONDITIONS

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

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station # 1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower. Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

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

New Source Performance Standards [40 CFR 60, Subpart A, Subpart IIII] [326 IAC12]

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

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for each emergency generator, identified as emission unit 013, 014, 015, 016, 017, 018 and 021, except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

E.1.2 General Provisions Relating to New Source Performance Standards [40 CFR 60, Subpart IIII] [326 IAC 12-1]

The permittee shall comply with the following provisions of 40 CFR 60, Subpart IIII (included as Attachment B of this permit), for each emergency generator, identified as emission unit 013, 014, 015, 016, 017, 018 and 021:

(1) 40 CFR 60.4200(a)(2)
(2) 40 CFR 60.4200(a)(3)
(3) 40 CFR 60.4200(b)
(4) 40 CFR 60.4205(a)
(5) 40 CFR 60.4205(b)
(6) 40 CFR 60.4205(c)
(7) 40 CFR 60.4206
(8) 40 CFR 60.4207(a)
(9) 40 CFR 60.4207(b)
(10) 40 CFR 60.4207(c)
(11) 40 CFR 60.4208
(12) 40 CFR 60.4209(a)
(13) 40 CFR 60.4211(a)
(14) 40 CFR 60.4211(b)
(15) 40 CFR 60.4211(c)
(16) 40 CFR 60.4211(e)
(17) 40 CFR 60.4212
(18) 40 CFR 60.4214(b)
(19) 40 CFR 60.4218
(20) 40 CFR 60.4219
(21) Tables 2, 5, and 8

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865
and
Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

PART 70 OPERATING PERMIT CERTIFICATION

Source Name:	Indianapolis Airport Authority
Source Address:	2825 West Perimeter Road, Indianapolis, Indiana 46241, 2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241, and 2500 South High School Road, Indianapolis, Indiana 46241
Mailing Address:	2500 South High School Road, Indianapolis, Indiana 46241
Part 70 Permit No.:	T097-9602-00156

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)

☐ Report (specify)

☐ Notification (specify)

☐ Affidavit (specify)

☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:
Printed Name:
Title/Position:
Phone:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
AIR COMPLIANCE

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Indianapolis Airport Authority
Source Address: 2825 West Perimeter Road, Indianapolis, Indiana 46241,
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241, and
2500 South High School Road, Indianapolis, Indiana 46241
Mailing Address: 2500 South High School Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-9602-00156

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

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

X The Permittee must notify the Office of Air Quality (OAQ), and OES within four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and

X The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

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

Form Completed by:

Title / Position:

Date:

Phone:

A certification is not required for this report.

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

Source Name: Indianapolis Airport Authority
Source Address: 2825 West Perimeter Road, Indianapolis, Indiana 46241,
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241, and
2500 South High School Road, Indianapolis, Indiana 46241
Mailing Address: 2500 South High School Road, Indianapolis, Indiana 46241
Part 70 Permit No.: T097-9602-00156

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.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY, COMPLIANCE DATA SECTION
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
AIR COMPLIANCE

Part 70 Quarterly Report

Source Name: Indianapolis Airport Authority
Source Address: 2825 West Perimeter Road, Indianapolis, Indiana 46241
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241,
and 2500 South High School Road, Indianapolis, IN 46241
Mailing Address: 2500 South High School Road, Indianapolis, IN 46241
Part 70 Permit No.: T097-9602-00156
Facility: Emission unit 013, 014, 015, 016, 017, 018 and 021.
Parameter: Diesel fuel and diesel fuel equivalents burned each month.
Limit: The total amount of diesel fuel and diesel fuel equivalents burned in emission unit 013, 014, 015, 016, 017, 018 and 021 shall not exceed a combined total of 175,400 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. Every gallon of diesel fuel burned in emission unit 021 is equivalent to 1.38 gallons burned in emission unit 013, 014, 015, 016, 017 and 018.

QUARTER: _____ YEAR: _____

	Column 1			Column 2			Column 1 + Column 2		
	This Month			Previous 11 Months			12 Month Total		
	Diesel fuel used in emission unit 013, 014, 015, 016, 017 and 018 (gal)	Equivalent gallons used in emission unit 021 (gal x 1.38)	Total Diesel fuel usage (gal)	Diesel fuel used in emission unit 013, 014, 015, 016, 017 and 018 (gal)	Equivalent gallons used in emission unit 021 (gal x 1.38)	Total Diesel fuel usage (gal)	Diesel fuel used in emission unit 013, 014, 015, 016, 017 and 018 (gal)	Equivalent gallons used in emission unit 021 (gal x 1.38)	Total Diesel fuel usage (gal)
Month									
Month									
Month									

_____

G No deviation occurred in this quarter.
G 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.

Attachment A

The following State rules have been adopted by reference by the Indianapolis Air Pollution Control Board and are enforceable by Indianapolis Office of Environmental Services (OES) using local enforcement procedures.

(1) 326 IAC 1-1-1 through 1-1-3 and 1-1-5;
(2) 326 IAC 1-2-1 through 1-2-91 (In addition, the IAPCB has adopted several local definitions);
(3) 326 IAC 1-3-1 through 1-3-4'
(4) 326 IAC 1-4-1 (The IAPCB added to the adoption by reference a citation to 61 FR 58482 (November 15, 1996));
(5) 326 IAC 1-5-1 through 1-5-5:
(6) 326 IAC 1-6-1 through 1-6-6;
(7) 326 IAC 1-7-1 through 1-7-5;
(8) 326 IAC 2-3-1 through 326 IAC 2-3-5;
(9) 326 IAC 2-4-1 through 326 IAC 2-4-6;
(10) 326 IAC 2-6-1 through 326 IAC 2-6-4;
(11) 326 IAC 2-7-1 through 2-7-18; 2-7-20 through 2-7-25;
(12) 326 IAC 2-8-1 through 2-8-15, 2-8-17;
(13) 326 IAC 2-9-1 through 2-9-14:
(14) 326 IAC 2-10-1 through 2-10-5 (The IAPCB adoption adds the language "state or local" immediately after the word "federal" in 326 IAC 2-10-1);
(15) 326 IAC 2-11-1, 2-11-3 and 2-11- 4 (The IAPCB adoption adds the language "state or local" immediately after the word "federal" in 326 IAC 2-11-1);
(16) 326 IAC 3-1.1-1 through 3-1.1-5;
(17) 326 IAC 3-2.1 through 3-2.1-5;
(18) 326 IAC 3-3-1 through 3-3-5;
(19) 326 IAC 4-2-1 through 4-2-2;
(20) 326 IAC 5-1-1(a), (b) and (c)(5), 5-1-2(1), (2)(A), (2)(c)(4), 5-1-3 through 5-1-5, 5-1-7;
(21) 326 IAC 7-1.1-1 and 7-1.1-2;
(22) 326 IAC 7-2-1;
(23) 326 IAC 7-3-1 and 7-3-2
(24) 326 IAC 7-4-2(28) through (31) (Instead of adopting by reference 7-4-2(1) through (27), the IAPCB regulation substitutes the same requirements listed in a format in which the companies are alphabetized and emission points known to no longer exist have been deleted):
(25) 326 IAC 8-1-0.5 except (b), 8-1-1 through 8-1-2, 8-1-3 except c), (g) and (i), 8-1-5 through 8-1-12;
(26) 326 IAC 8-2-1 through 8-2-12 (The IAPCB adoption by reference of 8-2-5 adds additional language specific to Zimmer Paper Products, Incorporated as subpart c);
(27) 326 IAC 8-3-1 through 8-3-7;
(28) 326 IAC 8-4-1 through 8-4-5, 8-4-6(a)(6), (a)(8) and (a)(14) and 8-4-6(b)(1), (b)(3) and 8-4-6 c) (In place of 8-4-6(b)(2), which was not adopted, the IAPCB adopted language requiring a pressure relief valve set to release at no less than four and eight-tenths (4.8) KiloPascals (seven-tenths (0.7) pounds per square inch)), 8-4-7 except (e), 8-4-8 and 8-4-9;
(29) 326 IAC 8-5-1 through 8-5-4, 8-5-5 except (a)(3) and (d)(3);
(30) 326 IAC 8-6-1 and 8-6-2;
(31) 326 IAC 9-1-1 and 9-1-2;
(32) 326 IAC 11-1-1 through 11-1-2
(33) 326 IAC 11-2-1 through 11-2-3;
(34) 326 IAC 11-3-1 through 11-3-6;
(35) 326 IAC 14-1-1 through 14-1-4;
(36) 326 IAC 14-2-1 except 40 CFR 61.145;
(37) 326 IAC 14-3-1;
(38) 326 IAC 14-4-1;
(39) 326 IAC 14-5-1;
(40) 326 IAC 14-6-1;
(41) 326 IAC 14-7-1;
(42) 326 IAC 14-8-1 through 14-8-5;
(43) 326 IAC 15-1-1, 15-1-2(a)(1), (a)(2) and (a)(8), 15-1-3 and 15-1-4;
(44) 326 IAC 20-1-1 through 20-1-4 (In 20-1-3(b)(2) the adoption states that "permitting authority" means the commissioner of IDEM or the administrator of OES, whichever is applicable);
(45) 326 IAC 20-2-1;
(46) 326 IAC 20-3-1;
(47) 326 IAC 20-4-1;
(48) 326 IAC 20-5-1;

(49) 326 IAC 20-6-1;
(50) 326 IAC 20-7-1;
(51) 326 IAC 20-8-1;
(52) 326 IAC 20-9-1;
(53) 326 IAC 20-14-1;
(54) 326 IAC 20-15-1;
(55) 326 IAC 20-16-1;
(56) 326 IAC 20-17-1;
(57) 326 IAC 20-18-1;
(58) 326 IAC 20-19-1;
(59) 326 IAC 20-20-1;
(60) 326 IAC 20-21-1;
(61) 326 IAC 21-1-1 (The adoption state that “or the administrator of OES” is added in (b));
(62) 326 IAC 22-1-1 (The adoption state that “or the administrator of OES” is added in (b));

Attachment B

Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Source: 71 FR 39172, July 11, 2006, unless otherwise noted.

What This Subpart Covers

Sec. 60.4200 **Am I subject to this subpart?**

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

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

(i) 2007 or later, for engines that are not fire pump engines,

(ii) The model year listed in table 3 to this subpart or later model year, for fire pump engines.

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

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

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

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

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

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

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

Emission Standards for Manufacturers

Sec. 60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 through 2010 model year non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(c) Stationary CI internal combustion engine manufacturers must certify their 2011 model year and later non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same maximum engine power.

(d) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder to the certification emission standards for new
marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power.

Sec. 60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

(1) For engines with a maximum engine power less than 37 KW (50 HP):

(i) The certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants for model year 2007 engines, and

(ii) The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.

(2) For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (b)(1) through (2) of this section.

(1) For 2007 through 2010 model years, the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(2) For 2011 model year and later, the certification emission standards for new nonroad CI engines for engines of the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

(c) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and

maximum engine power.

(d) Beginning with the model years in table 3 to this subpart, stationary CI internal combustion engine manufacturers must certify their fire pump stationary CI ICE to the emission standards in table 4 to this subpart, for all pollutants, for the same model year and NFPA nameplate power.

Sec. 60.4203 How long must my engines meet the emission standards if I am a stationary CI internal combustion engine manufacturer?

Engines manufactured by stationary CI internal combustion engine manufacturers must meet the emission standards as required in Sec. Sec. 60.4201 and 60.4202 during the useful life of the engines.

Emission Standards for Owners and Operators

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

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

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

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

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

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

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

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

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

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards

in table 4 to this subpart, for all pollutants.

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

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

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

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

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

Fuel Requirements for Owners and Operators

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

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

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

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

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

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

Other Requirements for Owners and Operators

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

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the

applicable requirements for 2007 model year engines.

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

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

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

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

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

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

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

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

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

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

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

Compliance Requirements

Sec. 60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?

(a) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of less than 10 liters per cylinder to the emission standards specified in Sec. 60.4201(a) through (c) and Sec. 60.4202(a), (b) and (d) using the certification procedures required in 40 CFR part 89, subpart B, or 40 CFR part 1039, subpart C, as applicable, and must test their engines as

specified in those parts. For the purposes of this subpart, engines certified to the standards in table 1 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89. For the purposes of this subpart, engines certified to the standards in table 4 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89, except that engines with NFPA nameplate power of less than 37 KW (50 HP) certified to model year 2011 or later standards shall be subject to the same requirements as engines certified to the standards in 40 CFR part 1039.

(b) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder to the emission standards specified in Sec. 60.4201(d) and Sec. 60.4202(c) using the certification procedures required in 40 CFR part 94 subpart C, and must test their engines as specified in 40 CFR part 94.

(c) Stationary CI internal combustion engine manufacturers must meet the requirements of 40 CFR 1039.120, 40 CFR 1039.125, 40 CFR 1039.130, 40 CFR 1039.135, and 40 CFR part 1068 for engines that are certified to the emission standards in 40 CFR part 1039. Stationary CI internal combustion engine manufacturers must meet the corresponding provisions of 40 CFR part 89 or 40 CFR part 94 for engines that would be covered by that part if they were nonroad (including marine) engines. Labels on such engines must refer to stationary engines, rather than or in addition to nonroad or marine engines, as appropriate. Stationary CI internal combustion engine manufacturers must label their engines according to paragraphs (c)(1) through (3) of this section.

(1) Stationary CI internal combustion engines manufactured from January 1, 2006 to March 31, 2006 (January 1, 2006 to June 30, 2006 for fire pump engines), other than those that are part of certified engine families under the nonroad CI engine regulations, must be labeled according to 40 CFR 1039.20.

(2) Stationary CI internal combustion engines manufactured from April 1, 2006 to December 31, 2006 (or, for fire pump engines, July 1, 2006 to December 31 of the year preceding the year listed in table 3 to this subpart) must be labeled according to paragraphs (c)(2)(i) through (iii) of this section:

(i) Stationary CI internal combustion engines that are part of certified engine families under the nonroad regulations must meet the labeling requirements for nonroad CI engines, but do not have to meet the labeling requirements in 40 CFR 1039.20.

(ii) Stationary CI internal combustion engines that meet Tier 1 requirements (or requirements for fire pumps) under this subpart, but do not meet the requirements applicable to nonroad CI engines must be labeled according to 40 CFR 1039.20. The engine manufacturer may add language to the label clarifying that the engine meets Tier 1 requirements (or requirements for fire pumps) of this subpart.

(iii) Stationary CI internal combustion engines manufactured after April 1, 2006 that do not meet Tier 1 requirements of this subpart, or fire pumps engines manufactured after July 1, 2006 that do not meet the requirements for fire pumps under this subpart, may not be used in the U.S. If any such engines are manufactured in the U.S. after April 1, 2006 (July 1, 2006 for fire pump engines), they must be exported or must be brought into compliance with the appropriate standards prior to initial operation. The export provisions of 40 CFR 1068.230 would apply to engines for export and the manufacturers must label such engines according to 40 CFR 1068.230.

(3) Stationary CI internal combustion engines manufactured after January 1, 2007 (for fire pump engines, after January 1 of the year listed in table 3 to this subpart, as applicable) must be labeled according to paragraphs (c)(3)(i) through (iii) of this section.

(i) Stationary CI internal combustion engines that meet the

requirements of this subpart and the corresponding requirements for nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in part 89, 94 or 1039, as appropriate.

(ii) Stationary CI internal combustion engines that meet the requirements of this subpart, but are not certified to the standards applicable to nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in part 89, 94 or 1039, as appropriate, but the words ``stationary'' must be included instead of ``nonroad'' or ``marine'' on the label. In addition, such engines must be labeled according to 40 CFR 1039.20.

(iii) Stationary CI internal combustion engines that do not meet the requirements of this subpart must be labeled according to 40 CFR 1068.230 and must be exported under the provisions of 40 CFR 1068.230.

(d) An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards applicable under parts 89, 94, or 1039 for that model year may certify any such family that contains both nonroad (including marine) and stationary engines as a single engine family and/or may include any such family containing stationary engines in the averaging, banking and trading provisions applicable for such engines under those parts.

(e) Manufacturers of engine families discussed in paragraph (d) of this section may meet the labeling requirements referred to in paragraph (c) of this section for stationary CI ICE by either adding a separate label containing the information required in paragraph (c) of this section or by adding the words ``and stationary'' after the word ``nonroad'' or ``marine,'' as appropriate, to the label.

(f) Starting with the model years shown in table 5 to this subpart, stationary CI internal combustion engine manufacturers must add a permanent label stating that the engine is for stationary emergency use only to each new emergency stationary CI internal combustion engine greater than or equal to 19 KW (25 HP) that meets all the emission standards for emergency engines in Sec. 60.4202 but does not meet all the emission standards for non-emergency engines in Sec. 60.4201. The label must be added according to the labeling requirements specified in 40 CFR 1039.135(b). Engine manufacturers must specify in the owner's manual that operation of emergency engines is limited to emergency operations and required maintenance and testing.

(g) Manufacturers of fire pump engines may use the test cycle in table 6 to this subpart for testing fire pump engines and may test at the NFPA certified nameplate HP, provided that the engine is labeled as ``Fire Pump Applications Only''.

(h) Engine manufacturers, including importers, may introduce into commerce uncertified engines or engines certified to earlier standards that were manufactured before the new or changed standards took effect until inventories are depleted, as long as such engines are part of normal inventory. For example, if the engine manufacturers' normal industry practice is to keep on hand a one-month supply of engines based on its projected sales, and a new tier of standards starts to apply for the 2009 model year, the engine manufacturer may manufacture engines based on the normal inventory requirements late in the 2008 model year, and sell those engines for installation. The engine manufacturer may not circumvent the provisions of Sec. Sec. 60.4201 or 60.4202 by stockpiling engines that are built before new or changed standards take effect. Stockpiling of such engines beyond normal industry practice is a violation of this subpart.

(i) The replacement engine provisions of 40 CFR 89.1003(b)(7), 40 CFR 94.1103(b)(3), 40 CFR 94.1103(b)(4) and 40 CFR 1068.240 are applicable to stationary CI engines replacing existing equipment that is less than 15 years old.

Sec. 60.4211 What are my compliance requirements if I am an owner

or operator of a stationary CI internal combustion engine?

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

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

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

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

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

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

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

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

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

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

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

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

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

on these parameters will serve to limit NO_X and PM emissions;

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

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

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

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

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

Testing Requirements for Owners and Operators

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

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

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

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

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

NTE requirement for each pollutant = (1.25) x (STD) (Eq. 1)

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40

CFR 94.8, as applicable.

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

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

Where:

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

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

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

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

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

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

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

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

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

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

Where:

C_i = concentration of NO_X or PM at the control device inlet,
C_o = concentration of NO_X or PM at the control device outlet, and
R = percent reduction of NO_X or PM emissions.

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

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

Where:

C_{adj} = Calculated NO_X or PM concentration adjusted to 15 percent O_2.
C_d = Measured concentration of NO_X or PM, uncorrected.
5.9 = 20.9 percent O_2–15 percent O_2, the defined O_2 correction value, percent.
% O_2 = Measured O_2 concentration, dry basis, percent.

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

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

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

Where:

F_o = Fuel factor based on the ratio of O_2 volume to the ultimate CO_2 volume produced by the fuel at zero percent excess air.
0.209 = Fraction of air that is O_2, percent/100.
F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm^3/J ($dscf/10^6$ Btu).
F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dsm^3/J $dscf/10^6$ Btu).

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

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

Where:

X_{CO2} = CO_2 correction factor, percent.
5.9 = 20.9 percent O_2–15 percent O_2, the defined O_2 correction value, percent.

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

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

Where:

C_{adj} = Calculated NO_X or PM concentration adjusted to 15 percent O_2.
C_d = Measured concentration of NO_X or PM, uncorrected.
$\%CO_2$ = Measured CO_2 concentration, dry basis, percent.

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

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

Where:

ER = Emission rate in grams per KW-hour.
C_d = Measured NO_X concentration in ppm.
$1.912x10^{-3}$ = Conversion constant for ppm NO_X to grams per standard cubic meter at 25 degrees Celsius.
Q = Stack gas volumetric flow rate, in standard cubic meter per hour.
T = Time of test run, in hours.
KW-hour = Brake work of the engine, in KW-hour.

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

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

Where:

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

Notification, Reports, and Records for Owners and Operators

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

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

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

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

(ii) The address of the affected source;

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

(iv) Emission control equipment; and

(v) Fuel used.

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

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

(ii) Maintenance conducted on the engine.

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

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

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not

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

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

Special Requirements

Sec. 60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?

(a) Stationary CI ICE that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are required to meet the applicable emission standards in Sec. 60.4205. Non-emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder, must meet the applicable emission standards in Sec. 60.4204(c).

(b) Stationary CI ICE that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are not required to meet the fuel requirements in Sec. 60.4207.

Sec. 60.4216 What requirements must I meet for engines used in Alaska?

(a) Prior to December 1, 2010, owners and operators of stationary CI engines located in areas of Alaska not accessible by the Federal Aid Highway System should refer to 40 CFR part 69 to determine the diesel fuel requirements applicable to such engines.

(b) The Governor of Alaska may submit for EPA approval, by no later than January 11, 2008, an alternative plan for implementing the requirements of 40 CFR part 60, subpart IIII, for public-sector electrical utilities located in rural areas of Alaska not accessible by the Federal Aid Highway System. This alternative plan must be based on the requirements of section 111 of the Clean Air Act including any increased risks to human health and the environment and must also be based on the unique circumstances related to remote power generation, climatic conditions, and serious economic impacts resulting from implementation of 40 CFR part 60, subpart IIII. If EPA approves by rulemaking process an alternative plan, the provisions as approved by EPA under that plan shall apply to the diesel engines used in new stationary internal combustion engines subject to this paragraph.

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

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

(b) [Reserved]

General Provisions

Sec. 60.4218 What parts of the General Provisions apply to me?

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

Definitions

Sec. 60.4219 What definitions apply to this subpart?

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

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

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

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

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

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

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

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

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

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

Model year means either:

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

(2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must

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

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

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

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

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

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

Subpart means 40 CFR part 60, subpart IIII.

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

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

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

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

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

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

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

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

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

Engine power	Starting model year engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)
KW<75 (HP<100)	2011
75≤KW<130 (100≤HP<175)	2010

Engine power	Starting model year engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)
130≤KW≤560 (175≤HP≤750)	2009
KW>560 (HP>750)	2008

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

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

Maximum engine power	Model year(s)	NMHC + NO_X	CO	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011+	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+[1]	4.7 (3.5)		0.40 (0.30)
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+[1]	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+[2]	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+[3]	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+[3]	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)		0.20 (0.15)

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

[2]For model years 2010–2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

[3]In model years 2009–2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

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

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

Engine power	Starting model year
19≤KW<56 (25≤HP<75)	2013
56≤KW<130 (75≤HP<175)	2012
KW≥130 (HP≥175)	2011

Table 6 to Subpart IIII of Part 60—Optional 3-Mode Test Cycle for Stationary Fire Pump Engines

[As stated in §60.4210(g), manufacturers of fire pump engines may use the following test cycle for testing fire pump engines:]

Mode No.	Engine speed[1]	Torque (percent)[2]	Weighting factors
1	Rated	100	0.30
2	Rated	75	0.50
3	Rated	50	0.20

[1]Engine speed: ±2 percent of point.

[2]Torque: NFPA certified nameplate HP for 100 percent point. All points should be ±2 percent of engine percent load value.

Table 7 to Subpart IIII of Part 60—Requirements for Performance Tests for Stationary CI ICE With a Displacement of ≥30 Liters per Cylinder

[As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of ≥30 liters per cylinder:]

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary CI internal combustion engine with a displacement of ≥30 liters per cylinder	a. Reduce NO_X emissions by 90 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O_2at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for NO_X

For each	Complying with the requirement to	You must	Using	According to the following requirements
				concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and,	(3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurements for NO_X concentration.
		iv. Measure NO_X at the inlet and outlet of the control device	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	(d) NO_X concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	b. Limit the concentration of NO_X in the stationary CI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, Appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O_2concentration of the stationary internal combustion engine exhaust at the sampling port location; and,	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2concentration must be made at the same time as the measurement for NO_X concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and,	(3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurement for NO_X concentration.
		iv. Measure NO_X at the exhaust	(4) Method 7E of 40 CFR part	(d) NO_X concentration

For each	Complying with the requirement to	You must	Using	According to the following requirements
		of the stationary internal combustion engine	60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17)	must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	c. Reduce PM emissions by 60 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O_2at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine and moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the inlet and outlet of the control device	(4) Method 5 of 40 CFR part 60, appendix A	(d) PM concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	d. Limit the concentration of PM in the stationary CI internal combustion engine exhaust	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, Appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O_2concentration of the stationary internal	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O_2concentration must be made at the same time as the measurements

For each	Complying with the requirement to	You must	Using	According to the following requirements
		combustion engine exhaust at the sampling port location; and		for PM concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the exhaust of the stationary internal combustion engine	(4) Method 5 of 40 CFR part 60, appendix A	(d) PM concentration must be at 15 percent O_2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

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

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

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4219.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4214(a).
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

Indiana Department of Environmental Management
Office of Air Quality
and
Indianapolis Office of Environmental Services

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

Source Description and Location

Source Name:	**Indianapolis Airport Authority**
Source Location:	**2825 West Perimeter Road, Indianapolis, Indiana 46241, 2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241, and 2500 South High School Road, Indianapolis, Indiana 46241**
County:	**Marion County**
SIC Code:	**4581**
Part 70 Operating Permit No.:	**T097-9602-00156**
Part 70 Operating Permit Issuance Date:	**June 26, 2003**
Significant Source Modification No.:	**SSM097-25024-00156**
Significant Permit Modification No.:	**SPM097-25015-00156**
Permit Reviewer:	**M. Caraher**

Source Definition

This airfield, aerospace vehicle maintenance center and central energy plant source consists of four (4) plants:

(a) Plant 1, Indianapolis Airport Authority (097-00156), is located at 2825 West Perimeter Road, Indianapolis, Indiana 46241 and 2500 South High School Road (and various collocated addresses), Indianapolis, Indiana 46241;

(b) Plant 2, BHMM Energy Services, LLC - IMC Central Energy Plant (097-00586), is located at 2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241;

(c) Plant 3, AAR Aircraft Services, Indianapolis (097-00559), is located at 2825 West Perimeter Road, Indianapolis, Indiana 46241; and

(d) Plant 4, Indianapolis Diversified Machining, Inc. (097-00560), is located at 2825 West Perimeter Road, Suite 106, Indianapolis, Indiana 46241.

IDEM, OAQ and OES have determined that since the four (4) plants are located on contiguous or adjacent properties and are under common control of the same entity, the Indianapolis Airport Authority, they will be considered one (1) source, effective from the date of issuance of this Part 70 Significant Permit Modification. These four (4) plants are considered one source because the aerospace vehicle maintenance center and the airfield are under the common control of the Indianapolis Airport Authority. The on-site powerhouse operated by BHMM Energy Services, LLC is dedicated to the aerospace vehicle maintenance center and the New Indianapolis Airport which the Indianapolis Airport Authority owns and operates. AAR Aircraft Services, Indianapolis will occupy the majority of the aircraft hangars at the aerospace vehicle maintenance center. Indianapolis Diversified Machining, Inc. receives from AAR Aircraft Services, Indianapolis more than fifty percent (50%) of its work flow and supplies these goods and services back to AAR Aircraft Services, Indianapolis. Therefore, the term “source” in the Part 70 documents refers to

the Indianapolis Airport Authority (IAA), BHMM Energy Services, LLC, AAR Aircraft Services, Indianapolis and Indianapolis Diversified Machining, Inc. as one source.

Separate Part 70 permits will be issued to Indianapolis Airport Authority with Permit No.: T097-25025-00156, BHMM Energy Services, LLC with Permit No.: T097-22919-00586, AAR Aircraft Services, Indianapolis with Permit No.: T097-21245-00559, and Indianapolis Diversified Machining, Inc. with Permit No.: T097-21325-00560 solely for administrative purposes.

Existing Approvals

The source is operating under the following approvals:

(a) Part 70 Operating Permit, T097-9602-00156, issued on June 26, 2003 to the Indianapolis Airport Authority (IAA).

(b) First Part 70 Administrative Amendment, 097-21243-00156, issued on October 14, 2005 to the Indianapolis Airport Authority (IAA).

(c) Part 70 Administrative Amendment, 097-21245-00559, issued on October 14, 2005 to AAR Aircraft Services, Indianapolis (AAR).

(d) Part 70 Administrative Amendment, 097-21325-00560, issued on October 14, 2005 to Indianapolis Diversified Machining, Inc. (IDM).

(e) Second Part 70 Administrative Amendment No.: 097-22389-00559, issued December 29, 2005 to AAR Aircraft Services, Indianapolis (AAR).

(f) Second Part 70 Administrative Amendment, 097-22385-00156, issued on December 29, 2005 to the Indianapolis Airport Authority (IAA).

(g) Part 70 Administrative Amendment, 097-22919-00586, issued to BHMM Energy Services, LLC (BHMM) (now called BHMM Energy Services, LLC - IMC Central Energy Plant) on November 30, 2006.

(h) First Part 70 Significant Permit Modification, 097-23240-00156, issued on August 8, 2007 to the Indianapolis Airport Authority (IAA).

The Indianapolis Airport Authority was issued Part 70 Operating Permit, T097-9602-00156, on June 26, 2003 for an aerospace vehicle maintenance center located at 2825 West Perimeter Road, Indianapolis, Indiana 46241.

On May 9, 2005, the Indianapolis Airport Authority (IAA) requested that the existing Part 70 Operating Permit for this source, T097-9602-00156, be administratively amended to allow the transfer of operational control of portions of existing permitted equipment or operations under T097-9602-00156 to either of two entities, AAR Aircraft Services, Indianapolis (hereafter referred to as AAR) or Indianapolis Diversified Machining, Inc. (hereafter referred to as IDM).

For the transfer of portions of existing permitted equipment and operations, IDEM, OAQ and OES determined that since the three (3) plants (IAA, AAR, and IDM) are located on contiguous or adjacent properties and are under common control of the same entity, the Indianapolis Airport Authority, they will be considered one (1) source, effective from the date of issuance of three (3) separate Administrative Amendments to the Part 70 Operating Permit, 097-21243-00156 for IAA, 097-21245-00559 for AAR and 097-21325-00560 for IDM. Each of these three (3) Administrative Amendments to the Part 70 Operating Permit was issued on October 14, 2005.

On December 29, 2005, IDEM, OAQ and OES issued the Second Administrative Amendment, 097-22385-00156, to the Part 70 Operating Permit to transfer operational control of four (4) storage tanks not part of AAR's lease back to IAA.

On March 29, 2006, BHMM Energy Services, LLC requested the existing Part 70 Operating Permit for this source, T097-9602-00156, be administratively amended to allow the transfer of operational control of portions of existing permitted equipment or operations under T097-9602-00156 from the Indianapolis Airport Authority to BHMM Energy Services, LLC (BHMM). The requested transfer of operational control to BHMM is incorporated into Part 70 Administrative Amendment, 097-22919-00586, issued November 30, 2006. The retention of Hangar 7, Jet fuel storage tanks and portions of Insignificant Activities by IAA is incorporated into the Third Administrative Amendment, 097-23165-00156, issued to IAA on November 30, 2006. BHMM Energy Services, LLC submitted a request for a name change to BHMM Energy Services, LLC - IMC Central Energy Plant as part of the significant permit modification application SPM097-25234-00586 received by OES on August 29, 2007.

On August 8, 2007, IDEM, OAQ and OES issued the First Part 70 Significant Permit Modification, 097-23240-00156, to incorporate existing collocated emission units at the airfield into the existing Part 70 Operating Permit, T097-9602-00156, for IAA. The existing collocated units are boilers, emergency generators, a cold cleaner degreaser, small fuel storage tanks, and a maintenance paint booth each located in various existing terminals and buildings IAA operates at the collocated airfield at 2500 South High School Road.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM2.5	non-attainment
PM10	attainment
SO_2	maintenance attainment
NO_2	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

Note: On November 8, 2007 the Indiana Air Pollution Control Board finalized a temporary emergency rule to redesignate Marion County as attainment for the 8-hour ozone standard.

(a) Volatile organic compounds (VOC) and nitrogen oxides (NO_X) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_X emissions are considered when evaluating the rule applicability relating to ozone. On November 8, 2007, a temporary emergency rule took effect redesignating Marion County to attainment for the eight-hour ozone standard. The Indiana Air Pollution Control Board has begun the process for a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 should take effect prior to the expiration of the emergency rule. Therefore, VOC emissions and NO_X emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

(b) Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability – Entire Source section.

(c) Marion County has been classified as attainment or unclassifiable for PM10, SO_2, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

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

(e) Fugitive emissions
This existing source consists of an airfield (primary operation) and a collocated aerospace vehicle maintenance center utilizing fossil fuel fired boilers (or combinations thereof) totalling more than two hundred fifity million (250,000,000) British thermal units per hour heat input, which is one of the 28 source categories, as specified in 326 IAC 2-2-1(gg)(1). The primary operation is not in one of the 28 listed source categories under 326 IAC 2-2 and there is no applicable New Source Performance Standard that was in effect on August 7, 1980. Therefore, fugitive emissions are not counted toward the determination of the PSD applicability from the primary operation at this source.

The fossil fuel fired boilers located at this source are considered as one of the 28 source categories under 326 IAC 2-2 and is considered "nested" within a non-listed source. The potential to emit NO_X and CO from the "nested" source is greater than one hundred (100) tons per year (see Enforcement Issues section). Therefore, fugitive emissions are counted toward the determination of the PSD applicability from the "nested" source.

Source Status

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

Pollutant	PTE of the Entire Source (tons/year)	PTE of Source Wide Nested Fossil Fuel Fired Boilers (tons/year)
PM	less than 250	less than 100
PM10	less than 100	less than 100
PM2.5	less than 100	less than 100
SO_2	less than 100	less than 100
VOC	greater than 100, less than 250	less than 100
CO	greater than 100, less than 250	greater than 100
NO_x	greater than 250	greater than 100
Lead	Negligible	Negligible

(a) This existing source consists of an airfield (primary operation) and a collocated aerospace vehicle maintenance center each utilizing fossil fuel fired boilers (or combinations thereof) totalling more than two hundred fifity million (250,000,000) British thermal units per hour heat input, which is one of the 28 source categories, as specified in 326 IAC 2-2-1(gg)(1). Based on PSD guidance for "nesting activities," these operations will be nested for the PSD applicability determination.

(1) The entire source, including the aerospace vehicle maintenance center, is a major stationary source, under PSD (326 IAC 2-2), because the entire source has the potential to emit NO_X of two hundred fifty (250) tons per year or more.

(2) The source wide nested fossil fuel fired boilers is a major stationary source, under PSD (326 IAC 2-2), because the potential to emit NO_X and CO is one hundred (100) tons per year or more, and it is one of the twenty-eight (28) listed source categories (fossil fuel fired boilers (or combinations thereof) totalling more than two hundred fifity million (250,000,000) British thermal units per hour heat input),

as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is not a major stationary source, under Nonattainment New Source Review (326 IAC 2-1.1-5), because PM10 (as a surrogate for PM2.5) is not emitted at a rate of one hundred (100) tons per year or more.

(c) These emissions are based upon the Part 70 Operating Permit, T097-9602-00156, issued to IAA on June 26, 2003 and on the First Part 70 Significant Permit Modification, 097-23240-00156, issued to IAA on August 8, 2007.

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

HAPs	Potential To Emit (tons/year)
Single HAP	Less than 10
Combined HAP	Less than 25

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is not a major source under Section 112 of the Clean Air Act (CAA). However, this source is still subject to the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.741, Subpart GG (National Emission Standards for Aerospace Manufacturing and Rework Facilities), and 326 IAC 20 (Hazardous Air Pollutants), even though HAP emissions are less than the major source thresholds for HAPs, because the potential to emit HAPs at the time of the first significant compliance date for 40 CFR 63.741, Subpart GG was assumed to be greater than the major source thresholds (based on EPA determination).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 Indiana Department of Environmental Management (IDEM) Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES) emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not Reported
PM10	1.17
SO_2	0.11
VOC	0.96
CO	9.50
NO_X	17.92
HAP	Not reported

Description of Proposed Modification

IDEM, OAQ and OES have reviewed a modification application, submitted by the Indianapolis Airport Authority (IAA) on July 9, 2007, relating to the proposed construction and operation of emergency generators, boilers and Jet A fuel storage tanks associated with the New Indianapolis Airport project. This project is an unrelated project to the First Part 70 Significant Permit Modification, 097-23240-00156, issued by IDEM, OAQ and OES on August 8, 2007, because that project incorporated previously existing emission units located at the airfield into the existing Part 70 Operating Permit for IAA, T097-9602-00156, issued for the aerospace vehicle maintenance center collocated at 2825 West Perimeter Road. The existing emission units are each located in

various existing terminal concourses and buildings IAA operates at the collocated airfield at 2500 South High School Road.

The New Indianapolis Airport is scheduled to be completed in the fall of 2008. The new emergency generators, boilers and Jet A fuel storage tanks associated with the New Indianapolis Airport project will be located in various new buildings and collocated locations associated with this construction project. The potential to emit NO_X from this construction project is greater than forty (40) tons per year but less than one hundred tons per year (see TSD Appendix A page 15). The source modification will limit the potential to emit NO_X emissions to less than forty (40) tons per twelve (12) consecutive month period such that 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements) does not apply. In addition, each of the new emergency generators are subject to the provisions of 40 CFR Part 60.4200, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), because each emergency generator was constructed after July 11, 2005, and manufactured after April 1, 2006. Subpart IIII is a new applicable requirement for IAA.

The following is a list of the proposed emission units, pollution control devices and the proposed revision to the Part 70 Operating Permit, T097-9602-00156, for IAA as revised through the First Part 70 Significant Permit Modification, 097-23240-00156, for IAA issued on August 8, 2007:

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station # 1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower. Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

Specifically Regulated Insignificant Activity:

(h) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including the following:

(3) Two (2) natural gas fired boilers in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 019 and 020. Each boiler is rated at 0.75 million Btu per hour. Emission unit 019 and emission unit 020 are each approved to construct in 2008. [326 IAC 6-2-4]

The following is a listing of emission units and pollution control device(s) that are not being incorporated into the Part 70 Operating Permit because each emission unit is not a specifically regulated insignificant activity at IAA. However, the potential to emit from these emission units have been evaluated (see TSD Appendix A page 13 and 14 of 15) to determine the permitting level of this modification, to determine the source wide potential to emit regulated air pollutants, to determine the applicability of federal, state and local rules, and to determine if this modification is subject to New Source Review requirements.

(a) Water related trivial activities, including the following:

(1) One (1) 60 gallon water heater identified as emission unit 022. Emission unit 022 is located in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road for on-site personal use and not related to any industrial or production process. Emission unit 022 is natural gas fired with a maximum heat input capacity of 0.125 million Btu per hour. Emission unit 022 is approved to construct in 2008.

(b) Three Jet A fuel storage tanks, identified as TK1, TK2 and TK3. Each storage tank is an above ground fixed roof storage tank. Each storage tank has a storage capacity of 465,000 gallons (1,801 m^3) and stores a volatile organic liquid of less than 0.2 kilopascals. Each storage tank is approved to construct in 2008 and each storage tank is located at the New Indianapolis Airport Fuel Farm at 2050 South Hoffman Road.

Enforcement Issues

There are no pending enforcement actions for the Indianapolis Airport Authority related to this modification.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
V1	Emergency Generator 013	13.33	1.0	12065	915
V2	Emergency Generator 014	13.33	1.0	12065	915
V3	Emergency Generator 015	9.42	0.69	4372	965
V4A	Emergency Generator	10.0	0.66	8475	1094

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
	016				
V4B	Emergency Generator 016	10.0	0.66	8475	1094
V5	Emergency Generator 017	10.0	0.66	5297	1040
V6	Emergency Generator 018	10.0	0.66	8722	1173
V7	Emergency Generator 021	8.58	0.3	679	1074

Emission Calculations

See Appendix A of this document for detailed emission calculations.

Permit Level Determination – Part 70

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

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

Pollutant	Potential To Emit (tons/year)
PM	1.8
PM10	0.4
SO_2	5.8
VOC	2.5
CO	13.9
NO_x	58.8

HAPs	Potential To Emit (tons/year)
Highest Single HAP (Hexane)	1.7E-02
Combined HAP	2.1E-02

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because the potential to emit NO_X is greater than twenty-five (25) tons per year but less than one hundred tons per year (see TSD Appendix A page 15 of 15). In addition, each of the new emergency generators are subject to the provisions of 40 CFR Part 60.4200, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), because each emergency generator was constructed after July 11, 2005, and manufactured after April 1, 2006. Subpart IIII is a new applicable requirement for IAA. Therefore, the proposed construction and operation of emergency generators, boilers and Jet A fuel storage tanks at the New Indianapolis Airport qualifies as a significant source modification. This significant source modification will be incorporated into the Part 70 Operating Permit, T097-9602-00156, through a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because the modification adds a new applicable requirement for IAA and involves significant changes to existing record keeping and reporting. The significant source modification is assigned the application tracking number of SSM097-25024-00156 and the significant permit modification is assigned the application tracking number of SPM097-25025-00156.

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source modification, 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/Process	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NO_X**
Emission Unit 013 Emergency Generator	0.4	0.1	1.3	0.4	3.0	< 39.29 (1)
Emission Unit 014 Emergency Generator	0.4	0.1	1.3	0.4	3.0	
Emission Unit 015 Emergency Generator	0.1	0.0	0.5	0.1	1.2	
Emission Unit 016 Emergency Generator	0.3	0.1	0.9	0.3	2.1	
Emission Unit 017 Emergency Generator	0.2	0.0	0.8	0.2	1.7	
Emission Unit 018 Emergency Generator	0.3	0.0	0.9	0.3	2.1	
Emission Unit 021 Emergency Generator	0.1	0.1	0.1	0.1	0.2	
Emission Unit 019 Natural Gas Fired Boiler	0.0	0.0	0.0	0.0	0.3	0.33
Emission Unit 020 Natural Gas Fired Boiler	0.0	0.0	0.0	0.0	0.3	0.33
Emission Unit 022 Natural Gas Water Heater	0.0	0.0	0.0	0.0	0.0	0.05
Three Jet A fuel storage tanks TK1, TK2 & TK3	0.0	0.0	0.0	0.7	0.0	**0.0**
Total for Modification	**1.8**	**0.4**	**5.8**	**2.5**	**13.9**	**< 40.0**
PSD and Nonattainment NSR Significant Level or Major Source Threshold	**25**	**15**	**40**	**40**	**100**	**40**

(1) NO_X emission limit based on less than 175,400 gallons diesel fuel burned in each twelve (12) consecutive month period. Each gallon of diesel fuel burned in Emission Unit 021 is equivalent to 1.38 gallons burned in emission unit 013 through 018.

(a) This modification to an existing major stationary source is not major, under 326 IAC 2-2, because the emission increases of PM, PM10, SO_2, VOC, NO_X and CO, are each less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

(b) Marion County has been designated as nonattainment for PM 2.5 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 PM10 emissions represent PM2.5 emissions. IDEM, OAQ and OES will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS. A major source in a nonattainment area is a source that emits or has the potential to emit one hundred (100) tons per year of any nonattainment regulated

pollutant. IAA has the potential to emit of PM10 below one hundred (100) tons per year. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-1.1-5 does not apply for PM2.5.

(c) This source is considered a major source under 326 IAC 2-2 and the unrestricted potential to emit of this modification is greater than forty (40) tons of NO_X per year. This significant source modification and significant permit modification will limit the potential to emit NO_X to less than forty (40) tons per year such that 326 IAC 2-2 does not apply as described below.

(1) NO_X emissions from emission unit 013, 014, 015, 016, 017 and 018 shall each not exceed 3.2 pounds per million Btu of heat input.

(2) NO_X emissions from emission unit 021 shall not exceed 4.41 pounds per million Btu of heat input.

(3) The total amount of diesel fuel and diesel fuel equivalents burned in emission units 13, 014, 015, 016, 017, 018 and 021 shall not exceed a combined total of 175,400 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. For every gallon of diesel fuel burned in emission unit 021, this is equivalent to 1.38 gallons burned in emission unit 013, 014, 015, 016, 017 and 018.

Compliance with these emission limits, combined with the potential to emit from emission units 019, 020, 022, will limit the potential to emit from this project to less than forty (40) tons of NO_X emissions per twelve (12) consecutive month period and render the requirements of 326 IAC 2-2 not applicable.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

(a) Each emergency generator identified as emission unit 013, 014, 015, 016, 017, 018 and 021 is subject to the New Source Performance Standard 40 CFR Part 60.4200, Subpart IIII, (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), because each emission unit was constructed after July 11, 2005, and manufactured after April 1, 2006.

Nonapplicable portions of the NSPS will not be included in the permit. The Permittee shall comply with the provisions of this subpart for each emergency generator identified as emission unit 013, 014, 015, 016, 017, 018 and 021 as follows:

(1) 40 CFR 60.4200(a)(2)
(2) 40 CFR 60.4200(a)(3)
(3) 40 CFR 60.4200(b)
(4) 40 CFR 60.4205(a)
(5) 40 CFR 60.4205(b)
(6) 40 CFR 60.4205(c)
(7) 40 CFR 60.4206
(8) 40 CFR 60.4207(a)
(9) 40 CFR 60.4207(b)
(10) 40 CFR 60.4207(c)
(11) 40 CFR 60.4208
(12) 40 CFR 60.4209(a)
(13) 40 CFR 60.4211(a)
(14) 40 CFR 60.4211(b)
(15) 40 CFR 60.4211(c)

(16) 40 CFR 60.4211(e)
(17) 40 CFR 60.4212
(18) 40 CFR 60.4214(b)
(19) 40 CFR 60.4218
(20) 40 CFR 60.4219
(21) Tables 2, 5, and 8

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to emission unit 013, 014, 015, 016, 017, 018 and 021 except when otherwise specified in 40 CFR 60.4200, Subpart IIII.

(b) The requirements of 40 CFR 60.110b, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction Reconstruction, or Modification Commenced After July 23, 1984 (October 15, 2003 version) does not apply to each of the new Jet A fuel storage tanks, identified as TK1, TK2 and TK3. Each storage tank has a capacity greater than 151m^3 but stores a volatile organic liquid with a maximum true vapor pressure of less than 3.5 kilopascals (Jet A fuel = 0.2 kilopascals). Therefore, 40 CFR 60.110b, Subpart Kb does not apply to Jet A fuel storage tanks TK1, TK2 and TK3.

(c) There are no other New Source Performance Standards (40 CFR 60 and 326 IAC 12) included in this proposed modification.

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

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines, Subpart ZZZZ are not included in this permit for IAA because IAA is not a major source of HAPs.

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

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

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

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

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

Emission Unit - Pollutant with an Emission Limitation	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Emission Unit 013 - NO_X	No	Yes	13.2	< 40.0	100	No	No
Emission Unit 014 - NO_X	No	Yes	13.2		100	No	No
Emission Unit 015 - NO_X	No	Yes	5.0		100	No	No
Emission Unit 016 - NO_X	No	Yes	9.0		100	No	No
Emission Unit 017 - NO_X	No	Yes	7.5		100	No	No
Emission Unit 018 - NO_X	No	Yes	9.2		100	No	No
Emission Unit 021 - NO_X	No	Yes	1.0		100	No	No
Emission Unit 019 - PM	No	Yes	0.0	0.0	100	No	No

Emission Unit - Pollutant with an Emission Limitation	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Emission Unit 020 - PM	No	Yes	0.0	0.0	100	No	No

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

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-1.1-5 (Non-attainment New Source Review)
Marion County has been designated as nonattainment for PM2.5. According to an EPA guidance memo dated April 5, 2005, PM10 is to be utilized as a surrogate for PM2.5 until the EPA can promulgate the PM2.5 implementation rule. PM10 emissions, and therefore, PM2.5 emissions, from this source are less than one hundred (100) tons per twelve consecutive month period. There have been no major modifications for PM10 emissions to this source. The potential to emit PM10 from this significant source modification is less than fifteen (15) tons per year. Therefore, this source is not subject to nonattainment new source review requirements for PM2.5 emissions.

326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Rules)
See discussion under Permit Level Determination – PSD section.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of the emergency generators and boilers at the New Indianpolis Airport will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply this proposed modification.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
IAA is located in Marion County, but has potential PM emissions less than 100 tons per year, actual PM emissions less than 10 tons per year, and is not specifically regulated in 326 IAC 6.5-2 through 6.5-10. Therefore, 326 IAC 6.5 does not apply to this proposed modification.

326 IAC 6-2-4 (Particulate Emissions Limitations for Sources of Indirect Heating)
Each natural gas fired boiler, emission unit 019 and 020, is subject to the provisions of 326 IAC 6-2-1(d) and 326 IAC 6-2-4, because each boiler is a source of indirect heating, is located in Marion County, and is constructed after September 21, 1983.

Particulate emissions from indirect heating facilities constructed after September 21, 1983 shall be limited by the following equation:

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

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.

Prior to this proposed modification, Q for the source equals 331.4 (49.6 from existing airfield boilers + 281.8 from the aerospace vehicle maintenance center boilers = 331.4). This proposed modification is adding two (2) boilers, emission unit 019 and emission unit 020, with a combined heat input of 1.5 million Btu per hour. Therefore, Q for emission unit 019 and 020 is 332.9. As a result, particulate emissions from emission unit 019 and 020 are each limited to 0.24 pounds per million Btu heat input

The AP-42 particulate matter emission factor for natural gas fired boilers less than one hundred (100) million Btu heat input of 1.9 pounds per million cubic feet of natural gas burned (1.9 #/MMCF x MMCF/10^6 cubic feet x cubic foot/1000 Btu x 10^6 Btu/MMBtu = 0.0019 pounds million Btu heat input) demonstrates that the source will be able to comply with 326 IAC 6-2-4 for each boiler.

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

The emergency generators and boilers included as part of this proposed modification do not meet the definition of a manufacturing process. In addition, combustion for indirect heating is specifically listed as exempt under 326 IAC 6-3-1(b)(1). Therefore, 326 IAC 6-3 does not apply to the emergency generators and boilers included in this proposed modification.

326 IAC 7 (Sulfur Dioxide Rules)

This proposed modification does not have the potential to emit sulfur dioxide of twenty five (25) tons per year or ten (10) pounds per hour of sulfur dioxide (see Appendix A page 15). Therefore, 326 IAC 7 (Sulfur Dioxide Rules) does not apply to this proposed modification.

326 IAC 8-1-6 (New facilities; general reduction requirements)

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, which have potential volatile organic compound (VOC) emissions of twenty five (25) tons per year or more, and which are not otherwise regulated by other provisions of 326 IAC 8 (Volatile Organic Compound Rules). None of the emission units included in this proposed modification has the potential to emit twenty five (25) tons per year or more of volatile organic compounds (VOC) (see Appendix A page 15). Therefore, none of the emission units included in this proposed modification are subject to 326 IAC 8-1-6 (General Provisions Relating to VOC Rules: General Reduction Requirements for New Facilities).

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

Each of the three (3) new Jet A fuel storage tanks, identified as TK1, TK2 and TK3, has a storage tank capacity greater than 39,000 gallons but stores a volatile organic liquid with a maximum true vapor pressure of less than 10.5 kilopascals (Jet A fuel = 0.2 kilopascals). Therefore, 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities) does not apply to the Jet A fuel storage tanks TK1, TK2 and TK3.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels) does not apply to the Jet A fuel storage tanks, identified as TK1, TK2 and TK3, because this source is not located in Clark, Floyd, Lake or Porter Counties.

326 IAC 11 (Emission Limitations for Specific Types of Operations)

Natural gas fired boilers, emergency generators and Jet A fuel storage tanks are each not specifically identified in 326 IAC 11 (Emission Limitations for Specific Types of Operations). Therefore, 326 IAC 11 (Emission Limitations for Specific Types of Operations) does not apply to this proposed modification.

326 IAC 12 (New Source Performance Standards)

See discussion under Federal Rule Applicability Determination section.

326 IAC 14 (Emission Standards for Hazardous Air Pollutants)

See discussion under Federal Rule Applicability Determination section.

326 IAC 20 (Hazardous Air Pollutants)
See discussion under Federal Rule Applicability Determination section.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ and OES, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

There are no Compliance Determination or Compliance Monitoring Requirements applicable to this proposed modification.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T097-8852-00368. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**.

Change 1

Since the "nested" source consists of “fossil fuel fired boilers (or combinations thereof) totalling more than two hundred fifity million (250,000,000) British thermal units per hour heat input,” it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1) and 326 IAC 2-3-2(g)(26). The nested source has the potential to emit NO_X and CO of greater that one hundred (100) tons per year. As a result, this nested source is a major source under PSD rules. The entire source, including the nested fossil fuel fired boilers, has the potential to emit NO_X of greater than two hundred fifty (250) tons per year. Marion County is currently classified as attainment for NO_X. Condition A.1 had stated that this source was a minor source under PSD. Condition A.1 has been updated to clarify that the airfield and the collocated aerospace vehicle maintenance center source, including the nested fossil fuel fired boilers, is a major source under PSD.

The potential to emit PM10, as a surrogate for PM2.5, is less than one hundred (100) tons per year. Therefore, it is a minor source under Nonattainment New Source Review rules. Nonattainment New Source Review source status for PM2.5 is added to Condition A.1.

On November 8, 2007, a temporary emergency rule took effect redesignating Marion County to attainment for the eight-hour ozone standard. The Indiana Air Pollution Control Board has begun the process for a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 should take effect prior to the expiration of the emergency rule. Therefore, Marion County is no longer nonattainment for ozone under the 8-hour standard. Therefore, Condition A.1 and Condition A.2 are revised as follows:

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

~~The Permittee owns and operates a~~ **This source consists of an airfield, a** stationary aerospace vehicle maintenance center which performs various maintenance tasks on aircraft **and a central energy plant**. ~~The Permittee also owns and operates an airfield.~~

Source Address:	2825 West Perimeter Road, Indianapolis, Indiana 46241**, 2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241**, and 2500 South High School Road, Indianapolis, Indiana 46241
Mailing Address:	2500 South High School Road, Indianapolis, Indiana 46241
General Source Phone Number:	(317) 757-2536
SIC Code:	3721
County Location:	Marion
Source Location Status:	~~Nonattainment for ozone under the 8-hour standard~~ Nonattainment for PM2.5 Attainment for all other criteria pollutants.
Source Status:	Part 70 Permit Program Minor Source, Section 112 of the Clean Air Act and **Nonattainment New Source Review** ~~Major Source under Emission Offset Rules~~ **Major** ~~Minor~~ Source under PSD Rules **Nested Source with fossil fuel fired boilers (or combinations thereof) totalling more than two hundred fifity million (250,000,000) British thermal units per hour heat input, as 1 of 28 Source Categories**

Change 2

The Indianapolis Airport Authority and BHMM requested the following changes to Condition A.2

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This **airfield,** aerospace vehicle maintenance center ~~and airfield~~ **and central energy plant** source consists of four (4) plants:

(a) Plant 1, Indianapolis Airport Authority (097-00156), is located at 2825 West Perimeter Road, Indianapolis, Indiana 46241 and 2500 South High School Road **(and various collocated addresses)**, Indianapolis, Indiana 46241;

(b) Plant 2, BHMM Energy Services, LLC - IMC Central Energy Plant (097-00586), is located at **2745 South Hoffman Road, Suite 504** ~~2825 West Perimeter Road~~, Indianapolis, Indiana 46241;

(c) Plant 3, AAR Aircraft Services, Indianapolis (097-00559), is located at 2825 West Perimeter Road, Indianapolis, Indiana 46241; and

(d) Plant 4, Indianapolis Diversified Machining, Inc. (097-00560), is located at 2825 West Perimeter Road, Suite 106, Indianapolis, Indiana 46241.

IDEM, OAQ and OES have determined that since the four (4) plants are located on contiguous or adjacent properties and are under common control of the same entity, the Indianapolis Airport Authority, they will be considered one (1) source, effective from the date of issuance of this Part 70 Significant Permit Modification. These four (4) plants are considered one source because the aerospace vehicle maintenance center and the airfield are under the common control of the Indianapolis Airport Authority. The on-site

powerhouse operated by BHMM Energy Services, LLC is dedicated to the aerospace vehicle maintenance center and the **New Indianapolis Airport** ~~Airport Midfield Terminal~~ which the Indianapolis Airport Authority owns and operates. AAR Aircraft Services, Indianapolis will occupy the majority of the aircraft hangars at the aerospace vehicle maintenance center. Indianapolis Diversified Machining, Inc. receives from AAR Aircraft Services, Indianapolis more than fifty percent (50%) of its work flow and supplies these goods and services back to AAR Aircraft Services, Indianapolis. Therefore, the term "source" in the Part 70 documents refers to the Indianapolis Airport Authority (IAA), BHMM Energy Services, LLC, AAR Aircraft Services, Indianapolis and Indianapolis Diversified Machining, Inc. as one source.

Separate Part 70 permits will be issued to Indianapolis Airport Authority with Permit No.: T097-**25025**~~23240~~-00156, BHMM Energy Services, LLC with Permit No.: T097-22919-00586, AAR Aircraft Services, Indianapolis with Permit No.: T097-21245-00559, and Indianapolis Diversified Machining, Inc. with Permit No.: T097-21325-00560 solely for administrative purposes.

Change 3

The reciprocating internal combustion engines and the new boilers for the New Indianapolis Airport are now included in Condition A.3 and Condition A.4 as shown below.

On 10/23/07, an OES inspection identified the existing Boiler # 5 located at the airfield at 2500 South High School Road as being a Weil McClain boiler not a Kewanee boiler. Therefore, Condition A.4 is updated to reflect the correct name of Boiler # 5.

The existing Jet A fuel storage tanks located on the east side of the aerospace vehicle maintenance center at 2825 West Perimeter Road are no longer subject to the requirements of 40 CFR 60.110b, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction Reconstruction, or Modification Commenced After July 23, 1984 (October 15, 2003 version) because each of the four (4) Jet A fuel storage tank stores a volatile organic liquid with a maximum true vapor pressure of less than 3.5 kilopascals (Jet A fuel = 0.2 kilopascals). Therefore, 40 CFR 60.110b, Subpart Kb does not apply to these Jet A fuel storage tanks and are deleted from Condition A.4 and Section D.9.

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

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

(a) One (1) service hangar, located at 2825 West Perimeter Road, with activities relating to the coating of aircraft parts, identified as emission unit Hangar 7, used for routine and nonroutine maintenance, with paint booths using high volume, low pressure (HVLP) spray application systems. Hangar 7 commenced operation July 15, 1997.

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station # 1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel

fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower. Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

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

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

...

~~(f) Four (4) Jet A fuel storage tanks of a capacity of 25,000 gallons or approximately 95 cubic meters, with potential VOC emissions of less than 3 pounds per hour and less than 10 tons per year located in the fuel farm on the east side of the maintenance facility. [326 IAC 12][40 CFR 60.110b, Subpart Kb]~~

(f)~~(g)~~ Three (3) Pacific National boilers fired by natural gas, each boiler is located at 2500 South High School Road in the Main Terminal building and each boiler was installed in 1966 and permitted in 2007. The three boilers are identified as:

(1) Boiler # 1, identified as emission unit Boiler # 1, with maximum heat input capacity of 13 million Btu per hour, exhausting to stack # 1. [326 IAC 6-2-2]

(2) Boiler # 2, identified as emission unit Boiler # 2, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 2. [326 IAC 6-2-2]

(3) Boiler # 3, identified as emission unit Boiler # 3, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 3. [326 IAC 6-2-2]

(g)~~(h)~~ Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including the following:

(1) One (1) Kewanee boiler, identified as Boiler # 4, installed in 1974 and permitted in 2007, with maximum heat input capacity of 8.4 million Btu per hour, located in the Airfield Maintenance building at 2500 South High School Road. [326 IAC 6-2-2]

(2) One (1) **Weil McClain** ~~Kewanee~~ boiler, identified as Boiler # 5, installed in 1974 and permitted in 2007, with maximum heat input capacity of 3.25 million Btu per hour, located in the International Arrivals building at 2500 South High School Road. [326 IAC 6-2-2]

(3) Two (2) natural gas fired boilers in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 019 and 020. Each boiler is rated at 0.75 million Btu per hour. Emission unit 019 and emission unit 020 are each approved to construct in 2008. [326 IAC 6-2-4]

SECTION D.9 FACILITY OPERATION CONDITIONS

This Section intentionally left blank.

~~Facility Description [326 IAC 2-7-5(15)]:~~
~~Specifically regulated insignificant activity:~~

~~(f) Four Jet A fuel storage tanks of a capacity of 25,000 gallons or approximately 95 cubic meters, with potential VOC emissions less than 3 pounds per hour and less than 10 tons per year located in the fuel farm on the east side of the maintenance facility. [326 IAC 12][40 CFR 60, Subpart Kb]~~

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

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

~~D.9.1 Record Keeping Requirement [40 CFR 60, Subpart Kb][326 IAC 12]~~

~~Pursuant to the New Source Performance Standard 40 CFR 60.116b, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction or Modification Commenced after July 23, 1984, the Permittee shall keep readily accessible records showing the dimension or tank capacities of these jet A fuel Storage Tanks. These records shall be kept for the life of the source.~~

~~D.9.2 Reporting Requirements [40 CFR Part 60, Subpart Kb] [326 IAC 12]~~

~~Pursuant to the New Source Performance Standard 40 CFR 60.116b, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction or Modification Commenced after July 23, 1984, the Permittee shall notify IDEM, OAQ and OES within thirty (30) days when the maximum true vapor pressure of the liquid being stored in any tank exceeds 27.6 kilopascals (kPa). Available data on the maximum true vapor pressure of the liquid being stored shall be in accordance with 40 CFR Part 60.116b(e). The report submitted by the Permittee requires the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

Change 4

The two (2) Insignificant Activity boilers, emission unit 019 and 020, are added to the existing Section D.10 as follows:

SECTION D.10 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]
Specifically regulated insignificant activity:

(f)~~(g)~~ Three (3) Pacific National boilers fired by natural gas, each boiler is located at 2500 South High School Road in the Main Terminal building and each boiler was installed in 1966 and permitted in 2007. The three boilers are identified as:

(1) Boiler # 1, identified as emission unit Boiler # 1, with maximum heat input capacity of 13 million Btu per hour, exhausting to stack # 1. [326 IAC 6-2-2]

(2) Boiler # 2, identified as emission unit Boiler # 2, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 2. [326 IAC 6-2-2]

(3) Boiler # 3, identified as emission unit Boiler # 3, with maximum heat input capacity of 12.5 million Btu per hour, exhausting to stack # 3. [326 IAC 6-2-2]

(g)~~(h)~~ Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including the following:

(1) One (1) Kewanee boiler, identified as Boiler # 4, installed in 1974 and permitted in 2007, with maximum heat input capacity of 8.4 million Btu per hour, located in the Airfield Maintenance building at 2500 South High School Road. [326 IAC 6-2-2]

(2) One (1) **Weil McClain** ~~Kewanee~~ boiler, identified as Boiler # 5, installed in 1974 and permitted in 2007, with maximum heat input capacity of 3.25 million Btu per hour, located in the International Arrivals building at 2500 South High School Road. [326 IAC 6-2-2]

(3) **Two (2) natural gas fired boilers in the Airport Operations Center-Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 019 and 020. Each boiler is rated at 0.75 million Btu per hour. Emission unit 019 and emission unit 020 are each approved to construct in 2008. [326 IAC 6-2-4]**

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

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

...

D.10.2 Particulate [326 IAC 6-2-4]

...

(b) Pursuant to 326 IAC 6-2-4(a), particulate matter emitted from emission unit 019 and emission unit 020 shall each not exceed 0.24 pounds per million Btu heat input.

This limitation is based on the following equation:

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

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. For emission unit 019 and emission unit 020, Q = 332.9.

Change 5

The seven (7) emergency generators, emission unit 013, 014, 015, 016, 017, 018 and 021, are added in a new Section D.11 as follows:

SECTION D.11 FACILITY OPERATION CONDITIONS

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

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station # 1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower. Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

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

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

D.11.1 PSD Minor Limit [326 IAC 2-2]

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements), emission unit 013, 014, 015, 016, 017, 018 and 021 are each subject to the following requirements:

(a) NO_X emissions from emission unit 013, 014, 015, 016, 017 and 018 shall each not exceed 3.2 pounds per million Btu of heat input.

(b) NO_X emissions from emission unit 021 shall not exceed 4.41 pounds per million Btu of heat input.

(c) The total amount of diesel fuel and diesel fuel equivalents burned in emission units 013, 014, 015, 016, 017, 018 and 021 shall not exceed a combined total of 175,400 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. Every gallon of diesel fuel burned in emission unit 021 is equivalent to 1.38 gallons burned in emission unit 013, 014, 015, 016, 017 and 018.

Compliance with these emission limits, combined with the potential to emit from emission units 019, 020, 022, will limit the potential to emit from this project to less than forty (40) tons of NO_X emissions per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable.

D.11.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan in accordance with Section B - Preventive Maintenance Plan of this permit, is required for emission unit 013, 014, 015, 016, 017, 018, 019, 020 and 021.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.11.3 Record Keeping Requirements [326 IAC 2-6.1-5(a)(2)]

To document compliance with preceding conditions D.11.1, the Permittee shall;

(a) Maintain records of the amount of diesel fuel and diesel fuel equivalents burned in emission unit 013, 014, 015, 016, 017, 018 and 021 each month.

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

D.11.4 Reporting Requirements

Quarterly summaries of the information to document compliance with Condition D.11.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report

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

Change 6

The seven (7) emergency generators, emission unit 013, 014, 015, 016, 017, 018 and 021, are each subject to the New Source Performance Standard (NSPS) 40 CFR Part 60.4200, Subpart IIII, (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines). 40 CFR Part 60, Subpart IIII is included in a new Attachment B of the permit in its entirety. The NSPS requirements for these units are added in a new Section E.1 as follows:

SECTION E.1 FACILITY OPERATION CONDITIONS

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

(b) Two (2) reciprocating internal combustion engines in the New Indianapolis Airport Terminal located at 7800 Airport Terminal Drive identified as emission unit 013 and emission unit 014. Each engine is diesel fuel fired and rated at 2200 horsepower. Each engine is a 4-stroke lean burn compression engine. Emission unit 013 exhausts to stack/vent V1 and emission unit 014 exhausts to stack/vent V2. Each engine is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 013 and emission unit 014 are each considered an affected facility. [40 CFR 60, Subpart IIII]

(c) One (1) reciprocating internal combustion engine in Fire Station #1 located at 8300 North Service Road identified as emission unit 015. Emission unit 015 is diesel fuel fired and rated at 840 horsepower. Emission unit 015 is a 4-stroke lean burn compression engine. Emission unit 015 exhausts to stack/vent V3. Emission unit 015 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 015 is considered an affected facility. [40 CFR 60, Subpart IIII]

(d) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Parking Garage located at 7801 Airport Terminal Drive identified as emission unit 016. Emission unit 016 is diesel fuel fired and rated at 1495 horsepower. Emission unit 016 is a 4-stroke lean burn compression engine. Emission unit 016 exhausts to stack/vent V4A and V4B. Emission unit 016 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 016 is considered an affected facility. [40 CFR 60, Subpart IIII]

(e) One (1) reciprocating internal combustion engine in the New Indianapolis Airport Fuel Farm located at 2050 South Hoffman Road identified as emission unit 017. Emission unit 017 is diesel fuel fired and rated at 1256 horsepower. Emission unit 017 is a 4-stroke lean burn compression engine. Emission unit 017 exhausts to stack/vent V5. Emission unit 017 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 017 is considered an affected facility. [40 CFR 60, Subpart IIII]

(f) One (1) reciprocating internal combustion engine in the Airport Operations Center - Emergency Operations Center (AOC-EOC) located at 8101 South Service Road identified as emission unit 018. Emission unit 018 is diesel fuel fired and rated at 1528 horsepower. Emission unit 018 is a 4-stroke lean burn compression engine. Emission unit 018 exhausts to stack/vent V6. Emission unit 018 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 018 is considered an affected facility. [40 CFR 60, Subpart IIII]

(g) One (1) reciprocating internal combustion engine in Parking Access Revenue Control (PARC) located at 8081 Airport Terminal Drive identified as emission unit 021. Emission unit 021 is diesel fuel fired and rated at 133 horsepower. Emission unit 021 is a 4-stroke lean burn compression engine. Emission unit 021 exhausts to stack/vent V7. Emission

unit 021 is approved to construct in 2008. Under 40 CFR 60.4200, Subpart IIII, emission unit 021 is considered an affected facility. [40 CFR 60, Subpart IIII]

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

New Source Performance Standards [40 CFR 60, Subpart A, Subpart IIII][326 IAC12]

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

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for each emergency generator, identified as emission unit 013, 014, 015, 016, 017, 018 and 021 except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

E.1.2 General Provisions Relating to New Source Performance Standards [40 CFR 60, Subpart IIII] [326 IAC 12-1]

The permittee shall comply with the following provisions of 40 CFR 60, Subpart IIII (included as Attachment B of this permit), for each emergency generator, identified as emission unit 013, 014, 015, 016, 017, 018 and 021:

(1) 40 CFR 60.4200(a)(2)
(2) 40 CFR 60.4200(a)(3)
(3) 40 CFR 60.4200(b)
(4) 40 CFR 60.4205(a)
(5) 40 CFR 60.4205(b)
(6) 40 CFR 60.4205(c)
(7) 40 CFR 60.4206
(8) 40 CFR 60.4207(a)
(9) 40 CFR 60.4207(b)
(10) 40 CFR 60.4207(c)
(11) 40 CFR 60.4208
(12) 40 CFR 60.4209(a)
(13) 40 CFR 60.4211(a)
(14) 40 CFR 60.4211(b)
(15) 40 CFR 60.4211(c)
(16) 40 CFR 60.4211(e)
(17) 40 CFR 60.4212
(18) 40 CFR 60.4214(b)
(19) 40 CFR 60.4218

(20) 40 CFR 60.4219
(21) Tables 2, 5, and 8

Change 7

A quarterly reporting form is added to report diesel fuel and diesel fuel equivalents burned in emission unit 013, 014, 015, 016, 017, 018 and 021 each month as follows.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY, COMPLIANCE DATA SECTION
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
AIR COMPLIANCE

Part 70 Quarterly Report

Source Name: **Indianapolis Airport Authority**
Source Address: **2825 West Perimeter Road, 2745 South Hoffman Road, Suite 504, and 2500 South High School Road, Indianapolis, IN 46241**
Mailing Address: **2500 South High School Road, Indianapolis, IN 46241**
Part 70 Permit No.: **T097-9602-00156**
Facility: **Emission unit 013, 014, 015, 016, 017, 018 and 021.**
Parameter: **Diesel fuel and diesel fuel equivalents burned each month.**
Limit: **The total amount of diesel fuel and diesel fuel equivalents burned in emission unit 013, 014, 015, 016, 017, 018 and 021 shall not exceed a combined total of 175,400 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. Every gallon of diesel fuel burned in emission unit 021 is equivalent to 1.38 gallons burned in emission unit 013, 014, 015, 016, 017 and 018.**

QUARTER: _____ **YEAR:** _____

	Column 1			Column 2			Column 1 + Column 2		
	This Month			Previous 11 Months			12 Month Total		
	Diesel fuel used in emission unit 013, 014, 015, 016, 017 and 018 (gal)	Equivalent gallons used in emission unit 021 (gal x 1.38)	Total Diesel fuel usage (gal)	Diesel fuel used in emission unit 013, 014, 015, 016, 017 and 018 (gal)	Equivalent gallons used in emission unit 021 (gal x 1.38)	Total Diesel fuel usage (gal)	Diesel fuel used in emission unit 013, 014, 015, 016, 017 and 018 (gal)	Equivalent gallons used in emission unit 021 (gal x 1.38)	Total Diesel fuel usage (gal)
Month									
Month									
Month									

G No deviation occurred in this quarter.
G 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.

Change 8

IDEM, OAQ and OES have updated Condition C.19 (General Record Keeping Requirements) and Condition C.20 as follows:

C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] **[326 IAC 2-2][326 IAC 2-3]**

…

(c) If there is a reasonable possibility that a "project"(as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit or at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:
(A) A description of the project.
(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
(i) Baseline actual emissions;
(ii) Projected actual emissions;
(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(3)); and
(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] **[326 IAC 2-2] [326 IAC 2-3]**

...

(f) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing Electric Utility Steam Generating Unit, then for that project the Permittee shall:

(1) Submit to IDEM, OAQ and OES a copy of the information required by (c)(1) in Section C - General Record Keeping Requirements

(2) Submit a report to IDEM, OAQ and OES within sixty (60) days after the end of each year during which records are generated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements. The report shall contain all information and data describing the annual emissions for the emissions units during the calendar year that preceded the submission of report.

Reports required in this part shall be submitted to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

(g) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit other than Electric Utility Steam Generating Unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and OES:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

(h) The report for a project at an existing emissions unit other than Electric Utility Steam Generating Unit shall be submitted within sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C -General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).

(4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

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

and

Indianapolis OES
Air Compliance
2700 South Belmont Ave.
Indianapolis, IN 46221

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

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 significant source modification No. SSM097-25024-00156. The operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 significant permit modification No. SPM097-25025-00156. The staff recommend to the IDEM Commissioner and OES Administrator that this Part 70 significant source modification and significant permit modification be approved.

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (>600 HP)

Company Name: Indianapolis Airport Authority
Address City IN Zip: 2825 West Permiter Road, Indianapolis, Indiana 46241
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: 097-25024-00156
Significant Permit Modification No.: 097-25025-00156
Reviewer: M. Caraher
Date: 2/22/2008

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: 5.7

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 013. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.0697	0.0573	0.3	3.2	0.1	0.85	1.36E-03	7.76E-04
			(1.01S)	**see below				
Potential Emission in tons/yr	0.1	0.1	0.4	4.6	0.1	1.2	1.9E-03	1.1E-03

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp): 2200.0

Potential Throughput hp-hr/yr: 1100000.0

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 013. Based on 500 hours of operation per year

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0007		0.0024	0.024	0.00071	0.00550
		not provided	*(.00809S)*	**see below		
Potential Emission in tons/yr	0.4	0.0	1.3	13.2	0.4	3.0

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.
The PM10 emission factor is filterable and condensable PM10 combined.

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (>600 HP)

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: 5.7

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 014. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.0697	0.0573	0.3	3.2	0.1	0.85	1.36E-03	7.76E-04
			(1.01S)	**see below				
Potential Emission in tons/yr	0.1	0.1	0.4	4.6	0.1	1.2	1.9E-03	1.1E-03

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp): 2200.0

Potential Throughput hp-hr/yr: 1100000.0

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 014. Based on 500 hours of operation per year

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0007		0.0024	0.024	0.00071	0.00550
		not provided	*(.00809S)*	**see below		
Potential Emission in tons/yr	0.4	0.0	1.3	13.2	0.4	3.0

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.
The PM10 emission factor is filterable and condensable PM10 combined.

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (>600 HP)

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: S= 0.3 = WEIGHT % SULFUR

2.1 — Emergency Standby Generator Unit 015. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.0697	0.0573	0.3	3.2	0.1	0.85	1.36E-03	7.76E-04
			(1.01S)	**see below				
Potential Emission in tons/yr	0.0	0.0	0.2	1.7	0.0	0.4	7.2E-04	4.1E-04

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp) | Potential Throughput hp-hr/yr | S= 0.3 = WEIGHT % SULFUR

840.0 | 420000.0 — Emergency Standby Generator Unit 015. Based on 500 hours of operation per year

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0007		0.0024	0.024	0.00071	0.00550
		not provided	*(.00809S)*	**see below		
Potential Emission in tons/yr	0.1	0.0	0.5	5.0	0.1	1.2

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.
The PM10 emission factor is filterable and condensable PM10 combined.

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (>600 HP)

Company Name: Indianapolis Airport Authority
Address City IN Zip: 2825 West Permiter Road, Indianapolis, Indiana 46241
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: 097-25024-00156
Significant Permit Modification No.: 097-25025-00156
Reviewer: M. Caraher
Date: 2/22/2008

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: 3.8

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 016. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.0697	0.0573	0.3	3.2	0.1	0.85	1.36E-03	7.76E-04
			(1.01S)	**see below				
Potential Emission in tons/yr	0.1	0.1	0.3	3.0	0.1	0.8	1.3E-03	7.4E-04

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp): 1495.0

Potential Throughput hp-hr/yr: 747500.0

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 016. Based on 500 hours of operation per year

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0007		0.0024	0.024	0.00071	0.00550
		not provided	*(.00809S)*	**see below		
Potential Emission in tons/yr	0.3	0.0	0.9	9.0	0.3	2.1

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.
The PM10 emission factor is filterable and condensable PM10 combined.

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (>600 HP)

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: 3.2 — S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 017. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.0697	0.0573	0.3	3.2	0.1	0.85	1.36E-03	7.76E-04
			(1.01S)	**see below				
Potential Emission in tons/yr	0.1	0.0	0.2	2.6	0.1	0.7	1.1E-03	6.2E-04

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp): 1256.0 — Potential Throughput hp-hr/yr: 628000.0 — S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 017. Based on 500 hours of operation per year

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0007		0.0024	0.024	0.00071	0.00550
		not provided	*(.00809S)*	**see below		
Potential Emission in tons/yr	0.2	0.0	0.8	7.5	0.2	1.7

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.
The PM10 emission factor is filterable and condensable PM10 combined.

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (>600 HP)

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: 3.9

S= 0.3 = WEIGHT % SULFUR

Emergency Standby Generator Unit 018. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.0697	0.0573	0.3	3.2	0.1	0.85	1.36E-03	7.76E-04
			(1.01S)	**see below				
Potential Emission in tons/yr	0.1	0.1	0.3	3.1	0.1	0.8	1.3E-03	7.6E-04

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp): 1528.0

Potential Throughput hp-hr/yr: 764000.0

S= 0.3 = WEIGHT % SULFUR

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0007		0.0024	0.024	0.00071	0.00550
		not provided	*(.00809S)*	**see below		
Potential Emission in tons/yr	0.3	0.0	0.9	9.2	0.3	2.1

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.

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

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	
0.75	6.6	Emission Unit 019

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.01	0.02	0.00	0.33	0.02	0.28

*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 = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 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

See next page for HAPs emissions calculations.

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

Company Name: Indianapolis Airport Authority
Address City IN Zip: 2825 West Permiter Road, Indianapolis, Indiana 46241
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: 097-25024-00156
Significant Permit Modification No.: 097-25025-00156
Reviewer: M. Caraher
Date: 2/22/2008

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.899E-06	3.942E-06	2.464E-04	5.913E-03	1.117E-05

	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	1.643E-06	3.614E-06	4.599E-06	1.248E-06	6.899E-06	Combined HAP 6.199E-03

Methodology is the same as previous page

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

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

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	
0.75	6.6	Emission Unit 020

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.01	0.02	0.00	0.33	0.02	0.28

*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 = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 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

See next page for HAPs emissions calculations.

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

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.899E-06	3.942E-06	2.464E-04	5.913E-03	1.117E-05

	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	Combined HAP
Potential Emission in tons/yr	1.643E-06	3.614E-06	4.599E-06	1.248E-06	6.899E-06	6.199E-03

Methodology is the same as previous page

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

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating Engine (<600 HP)

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity MMBtu/hr: 0.3 (S= 0.3 = WEIGHT % SULFUR)

Emergency Standby Generator Unit 014. Based on 500 hours of operation per year

	Pollutant							Highest Single HAP
	PM	PM10	SO2	NOx	VOC	CO	Combined HAP	Benzene
Emission Factor in lb/MMBtu	0.31	0.31	0.29	4.41	0.09	0.95	1.68E-04	9.33E-04
				**see below				
Potential Emission in tons/yr	0.0	0.0	0.0	0.3	0.0	0.1	1.3E-05	7.0E-05

**NOx emissions: uncontrolled = 4.41 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu
Emfacs from AP-42 Tables 3.4-1 & 3.4-2 (10/96)

B. Emissions calculated based on output rating (hp)

Heat Input Capacity Horsepower (hp): 133.0
Potential Throughput hp-hr/yr: 66500.0

Emergency Standby Generator Unit 014. Based on 500 hours of operation per year

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
				**see below		
Potential Emission in tons/yr	0.1	0.1	0.1	1.0	0.1	0.2

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
An average conversion factor of 1brake specific hp-hr = 7,000Btu is provided below.

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2
1 brake specific hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a, unless other wise noted
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included.
The PM10 emission factor is filterable and condensable PM10 combined.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Water Heater in AOC-EOC Building

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Minor Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	
0.125	1.1	Emission Unit 020

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.00	0.00	0.00	0.05	0.00	0.05

*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 = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 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

See next page for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Water Heater in AOC-EOC Building
HAPs Emissions

Company Name: Indianapolis Airport Authority
Address City IN Zip: 2825 West Permiter Road, Indianapolis, Indiana 46241
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: 097-25024-00156
Significant Permit Modification No.: 097-25025-00156
Reviewer: M. Caraher
Date: 2/22/2008

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.150E-06	6.570E-07	4.106E-05	9.855E-04	1.862E-06

	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	Combined HAP
Potential Emission in tons/yr	2.738E-07	6.023E-07	7.665E-07	2.081E-07	1.150E-06	1.033E-03

Methodology is the same as previous page

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

Company Name: **Indianapolis Airport Authority**
Address City IN Zip: **2825 West Permiter Road, Indianapolis, Indiana 46241**
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Significant Source Modification No.: **097-25024-00156**
Significant Permit Modification No.: **097-25025-00156**
Reviewer: **M. Caraher**
Date: **2/22/2008**

TANKS 4.09d
Emissions Report - Summary Format

Tank	
Tank Identification	TK1
User Identification:	Jet A fuel storage tank
Type of Tank:	Vertical Fixed Roof Tank
Description:	Jet A fuel storage tank
Tank Dimensions	
Shell Height (ft):	40
Diameter (ft):	44.5
Liquid Height (ft):	38
Avg. Liquid Height (ft):	19
Volume (gal):	465,000
Turnovers:	54.46
Net Throughput (gal/yr):	25,342,500
Heated tank (y/n?)	n
Paint Characteristics	
Shell Color/Shade:	White
Shell Condition:	Good
Roof Color/Shade	White
Roof Condition	Good
Roof Characteristics	
Type	Cone
Height (ft):	2
Slope (ft/ft) (Cone Roof)	0.09
Breather Vent Settings	
Vacuum Settings (psig):	-0.03
Pressure Settings (psig):	0.03
Daily Liquid Surface Temp (F)	
Avg.:	54
Min.:	48.9
Max.:	59.1
Liquid Bulk Temp (F):	52.3
Vapor Pressure (psia):	
Avg.:	0.007
Min.:	0.0058
Max.:	0.0083
Vapor Molecular Wt.:	130
Molecular Wt.:	162

	Losses (lbs/yr)		
Components	**Working Loss**	**Breathing Loss**	**Total**
Jet A Fuel	**394.17**	**71.93**	**466.09**

Combined Losses (tons/yr) for 3 identical storage tanks		
Working Loss	**Breathing Loss**	**Total**
0.59	**0.11**	**0.70**

Methodology
Emission calculations based on EPA program "TANKS" Version 4.09d
Parameters per application

Appendix A: Emission Calculations
Emissions Summary

Company Name: Indianapolis Airport Authority
Address City IN Zip: 2825 West Permiter Road, Indianapolis, Indiana 46241
2745 South Hoffman Road, Suite 504, Indianapolis, Indiana 46241
2500 South High School Road, Indianapolis, Indiana 46241
Significant Source Modification No.: 097-25024-00156
Significant Permit Modification No.: 097-25025-00156
Reviewer: M. Caraher
Date: 2/22/2008

Potential to Emit Summary (tons per year)

	PM	PM10	SO_2	NO_X	VOC	CO	Highest Single HAP	Combination HAP
Emission Unit 013	0.4	0.1	1.3	13.2	0.4	3.0	1.1E-03	1.9E-03
Emission Unit 014	0.4	0.1	1.3	13.2	0.4	3.0	1.1E-03	1.9E-03
Emission Unit 015	0.1	0.0	0.5	5.0	0.1	1.2	4.1E-04	7.2E-04
Emission Unit 016	0.3	0.1	0.9	9.0	0.3	2.1	7.4E-04	1.3E-03
Emission Unit 017	0.2	0.0	0.8	7.5	0.2	1.7	6.2E-04	1.1E-03
Emission Unit 018	0.3	0.0	0.9	9.2	0.3	2.1	7.6E-04	1.3E-03
Emission Unit 019	0.0	0.0	0.0	0.3	0.0	0.3	5.9E-03	6.2E-03
Emission Unit 020	0.0	0.0	0.0	0.3	0.0	0.3	5.9E-03	6.2E-03
Emission Unit 021	0.1	0.1	0.1	1.0	0.1	0.2	7.0E-05	1.3E-05
Emission Unit 022	0.0	0.0	0.0	0.1	0.0	0.0	9.9E-04	1.0E-03
3 Jet Fuel Storage Tanks TK1, TK2 & TK3	0.0	0.0	0.0	0.0	0.7	0.0	0.0E+00	0.0E+00
Potential to Emit	**1.8**	**0.4**	**5.8**	**58.8**	**2.5**	**13.9**	**1.7E-02**	**2.1E-02**

Highest Single HAP is Hexane from Emission Unit 019 and 020.

Limited Potential to Emit Summary (tons per year)

	PM	PM10	SO_2	NO_X	VOC	CO	Highest Single HAP	Combination HAP
Emission Unit 013	0.4	0.1	1.3		0.4	3.0	1.1E-03	1.9E-03
Emission Unit 014	0.4	0.1	1.3		0.4	3.0	1.1E-03	1.9E-03
Emission Unit 015	0.1	0.0	0.5		0.1	1.2	4.1E-04	7.2E-04
Emission Unit 016	0.3	0.1	0.9	39.29	0.3	2.1	7.4E-04	1.3E-03
Emission Unit 017	0.2	0.0	0.8		0.2	1.7	6.2E-04	1.1E-03
Emission Unit 018	0.3	0.0	0.9		0.3	2.1	7.6E-04	1.3E-03
Emission Unit 021	0.1	0.1	0.1		0.1	0.2	7.0E-05	1.3E-05
Emission Unit 019	0.0	0.0	0.0	0.33	0.0	0.3	5.9E-03	6.2E-03
Emission Unit 020	0.0	0.0	0.0	0.33	0.0	0.3	5.9E-03	6.2E-03
Emission Unit 022	0.0	0.0	0.0	0.05	0.0	0.0	9.9E-04	1.0E-03
3 Jet Fuel Storage Tanks TK1, TK2 & TK3	0.0	0.0	0.0	0.0	0.7	0.0	0.0E+00	0.0E+00
Potential to Emit	**1.8**	**0.4**	**5.8**	**< 40.0**	**2.5**	**13.9**	**1.7E-02**	**2.1E-02**

Diesel fuel cap for all emergency generators combined is as follows:

3.2 lbs NO_X/MMBtu x MMBtu/10^6 Btu x 140000 Btu/gal x ton/2000 lbs x X gal/yr = 39.29 tons per year. X = 175,400 gal/yr.

For every gallon of diesel fuel burned in Emission Unit 021 (generator < 600 hp), this is equivalent to 1.38 gallons burned in a generator > 600 hp (generators 013 through 018).

Fuel use equivalents derived by: NO_X emission factor for generators < 600 hp / NO_X emission factor for generators greater than 600 hp = 4.41/3.2 = 1.38.