



**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP) RENEWAL**

**INDIANA DEPARTMENT OF ENVIRONMENTAL  
MANAGEMENT  
OFFICE OF AIR QUALITY  
and  
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

**Roche Diagnostics Corporation  
9115 Hague Road  
Indianapolis, Indiana 46250**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F097-18965-00338	
Issued by:  John B. Chavez, Administrator Indianapolis Office of Environmental Services	Issuance Date: 12-15-2004  Expiration Date: 12-15-2009

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Office of Environmental Services**  
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## SECTION A SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary source, relating to the operation of standby and emergency generators under a Standard Industrial Classification Code (SIC) of 2835 In Vitro and In Vivo Diagnostic Substances.

Authorized individual:	Vice President General Counsel
Source Address:	9115 Hague Road, Indianapolis, Indiana 46250-0457
Mailing Address:	9115 Hague Road PO Box 50457, Indianapolis, Indiana 46250-0457
General Source Phone:	Mr. Steve Hunter (317)845-2351
SIC Code:	2835
Source Location Status:	Marion County
County Status:	Nonattainment for 8 hour ozone and attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD;

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

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

- (a) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G1. Emission Unit ID G1 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G1 exhausts at Stack/Vent ID G1. Installation date of 1993.
- (b) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G2. Emission Unit ID G2 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G2 exhausts at Stack/Vent ID G2. Installation date of 1993.
- (c) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G3. Emission Unit ID G3 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G3 exhausts at Stack/Vent ID G3. Installation date of 1993.
- (d) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G4. Emission Unit ID G4 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural

gas heat input of 11.2 million Btu per hour. Emission Unit ID G4 exhausts at Stack/Vent ID G2. Installation date of 1993.

- (e) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G5. Emission Unit ID G5 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G5 exhausts at Stack/ Vent ID G5. Installation date of 2001.

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

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

- (a) Space heaters with fuel oil fired heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight;
  - (1) Six (6) portable space heaters identified as Emission Unit ID 6PSH. Each diesel fired portable space heater is rated at 100,000 Btu max heat input.
- (b) Combustion source flame safety purging on startup.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) Cleaners and solvents characterized as follows:
  - (1) having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
  - (2) having a vapor pressure equal to or less than 0.7 kPa; 5mm 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.
- (e) Closed loop heating and cooling systems.
- (f) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (g) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (h) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (i) Stationary fire pumps.
- (j) Other emergency equipment as follows:
  - (1) Gasoline generators not exceeding 110 horsepower.
    - (A) One (1) gasoline fired portable generator identified as Emission Unit ID K1. Emission Unit ID K1 is a reciprocating internal combustion engine rated at 12.5 kilowatts.
    - (B) One (1) gasoline fired portable generator identified as Emission Unit ID K2. Emission Unit ID K2 is a reciprocating internal combustion engine rated at 5.0 kilowatts.
  - (2) Diesel generators not exceeding 1600 horsepower:
    - (A) One (1) diesel fired emergency generator identified as Emission Unit ID L-18. Emission Unit ID L-18 is a Caterpillar Model 3406 reciprocating internal combustion engine rated at 3.1 million Btu maximum heat input and 402 horsepower output. Emission Unit ID L-18 exhausts at Stack/Vent ID L-18. Installation date of September 1999.
  - (3) Natural gas reciprocating engines not exceeding 16,000 horsepower:
    - (A) One (1) natural gas fired emergency generator identified as Emission Unit ID A-P Tunnel. Emission Unit ID A-P Tunnel is a reciprocating internal combustion engine rated at 15 kilowatts.
- (k) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]

- (l) Noncontact cooling tower systems with either of the following:
  - (1) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (m) Heat exchanger cleaning and repair.
- (n) A laboratory as defined in 326 IAC 2-7-1(20)(C).
- (o) Other activities or categories not previously identified:
  - (1) One (1) paint spray booth identified as Building L11 Paint Spray Booth with potential to emit Volatile Organic Compounds (VOC) equal to or less than three (3) lbs/hour and fifteen (15) lbs/day.
  - (2) Building O Video Ink Jet & Make-up Fluid Operations with potential to emit any single HAP less than 5 lbs/day or 1 ton/year and any combination of HAP less than 12.5 lbs/day or 2.5 tons/year.
  - (3) Chemstrip Video Ink Jet & Make-up Fluid Operations with potential to emit any single HAP less than 5 lbs/day or 1 ton/year and any combination of HAP less than 12.5 lbs/day or 2.5 tons/year.

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

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

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

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, and ERMD 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.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Permit No Defense [IC 13]**

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

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

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

### **B.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]**

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

### **B.4 Enforceability [326 IAC 2-8-6]**

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- (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 and OES, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) 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 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

### **B.6 Severability [326 IAC 2-8-4(4)]**

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

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

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

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- (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 "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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, and 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.9 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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

**B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]**

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

**B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
Air Compliance  
2700 South Belmont Avenue  
Indianapolis, IN 46221-2009

- (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 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, and OES may require to determine the compliance status of the source.

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

B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, 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 PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, 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 No.: 1-800-451-6027 (ask for IDEM, OAQ, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for IDEM, OAQ, Compliance Section)  
Facsimile No.: 317-233-5967

and

Telephone No.: 317-327-2234 (ask for OES Air Compliance Section)  
Facsimile No.: 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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) IDEM, OAQ, and OES, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, 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 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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 need to be included in this report.

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated

noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if 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 2-8-8(a)]
- (c) Proceedings by 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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by OES at least thirty (30) days in advance of the date this permit is to be reopened, except that OES may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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- (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 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015

and

Indianapolis Office of Environmental Services  
Air Permits  
2700 South Belmont Avenue  
Indianapolis, IN 46221-2009

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be

considered timely if received by IDEM, OAQ, and OES on or before the date it is due.

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

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ, 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 needed to process the application.

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

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

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

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
Air Permits  
2700 South Belmont Avenue  
Indianapolis, IN 46221-2009

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

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

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

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

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

(4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, and OES, in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

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

The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

**B.19 Permit Revision Requirement [326 IAC 2-8-11.1]**

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

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

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ or 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) 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 317-233-4320 (ask for OAQ, Billing, Licensing and Training), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

- (1) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (2) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

#### C.2 Overall Source Limit [326 IAC 2-8]

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

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
  - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

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

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

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- (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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

#### **C.9 Performance Testing [326 IAC 3-6]**

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

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, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, 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.10 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

#### **C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

#### **C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

#### **C.13 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]**

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- (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 is comprised of:
  - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response 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, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ, and OES of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

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

**C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]**

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

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, 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 and 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 response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

**C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the OES Administrator makes a request for records to the Permittee, the Permittee shall furnish the records to 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.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services  
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, and OES on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 21 inclusive.

### **Stratospheric Ozone Protection**

#### **C.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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**

<b>Emission Unit ID G1</b> Standby Generator G1	<b>Facility Description [326 IAC 2-8-4(10)]:</b> One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G1. Emission Unit ID G1 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G1 exhausts at Stack/Vent ID G1. Installation date of 1993. (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
<b>Emission Unit ID G2</b> Standby Generator G2	<b>Facility Description [326 IAC 2-8-4(10)]:</b> One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G2. Emission Unit ID G2 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G2 exhausts at Stack/Vent ID G2. Installation date of 1993. (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
<b>Emission Unit ID G3</b> Standby Generator G3	<b>Facility Description [326 IAC 2-8-4(10)]:</b> One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G3. Emission Unit ID G3 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G3 exhausts at Stack/Vent ID G3. Installation date of 1993. (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
<b>Emission Unit ID G4</b> Standby Generator G4	<b>Facility Description [326 IAC 2-8-4(10)]:</b> One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G4. Emission Unit ID G4 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G4 exhausts at Stack/Vent ID G2. Installation date of 1993. (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
<b>Emission Unit ID G5</b> Standby Generator G5	<b>Facility Description [326 IAC 2-8-4(10)]:</b> One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G5. Emission Unit ID G5 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G5 exhausts at Stack/ Vent ID G5. Installation date of 2001.

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

D.1.1 PSD Minor Limit [326 IAC 2-8-4(1)][326 IAC 2-2][326 IAC 2-1.1-5][326 IAC 7-1.1-1]

Pursuant to FESOP 097-11275-00338 Issued January 10, 2000:

- (a) The combined total sum of diesel fuel input to Emission Unit ID G1, G2, G3, G4 and G5 shall not exceed 293,435 gallons per twelve (12) consecutive month period with

compliance determined at the end of each month. This usage limit is equivalent to 95.5 tons NO<sub>x</sub>, 17.1 tons of CO and 10.2 tons of SO<sub>2</sub> emissions per twelve (12) consecutive month period with compliance determined at the end of each month.

- (b) The fuel allotment in subpart a) of this condition shall be adjusted when combusting more than one (1) fuel by the following: Every one (1) thousand gallon reduction in diesel fuel consumption can be substituted for 0.08 million cubic feet of natural gas consumption provided natural gas consumption does not exceed 24.0 million cubic feet per rolling twelve (12) consecutive month period.
- (c) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight.

Compliance with a), b) and c) makes 326 IAC 2-7 (Part 70 Permit Program) not applicable and satisfies the requirement to limit NO<sub>x</sub>, SO<sub>2</sub> and CO emissions to below the major source level such that 326 IAC 2-2 (Prevention of Significant Deterioration), 326 IAC 2-1.1-5 and 326 IAC 7-1.1-1 do not apply.

#### D.1.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for Emission Unit ID G1, G2, G3, G4 and G5.

### Compliance Determination Requirements

#### D.1.3 Sulfur Content

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Compliance with Condition D.1.1(c) shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed five-tenths (0.5) percent by weight:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

### Compliance Monitoring Requirements

#### D.1.4 Visible Emissions Notations

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- (a) Visible emission notations of the standby generators (G1, G2, G3, G4, and G5) stack exhaust shall be performed daily during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation and Implementation shall be considered a deviation from this permit.

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

### **D.1.5 Record Keeping Requirements**

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- (a) To document compliance with condition D.1.1, the Permittee shall maintain records of the monthly amount of each type of fuel combusted in Emission Unit ID G1, G2, G3 G4, and G5.
- (b) To document compliance with Condition D.1.1(c), the Permittee shall maintain sulfur content records. If the fuel supplier certifications are used to demonstrate compliance, the following, at a minimum, shall be maintained:
  - (1) Fuel supplier certifications;
  - (2) The name of the fuel supplier; and
  - (3) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (c) To document compliance with Condition D.1.2 the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) To document compliance with Condition D.1.4, the Permittee shall maintain records of visible emission notations of the standby generators stack exhaust once per day.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### **D.1.6 Reporting Requirements**

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A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the address(es) 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.

## SECTION D.2

## FACILITY OPERATION CONDITIONS

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

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

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

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

#### D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

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

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

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

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- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following 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 (38OC) (one hundred degrees Fahrenheit (100OF));
    - (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 (38OC) (one hundred degrees Fahrenheit (100OF)), 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 (38OC) (one hundred degrees Fahrenheit (100OF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9OC) (one hundred twenty degrees Fahrenheit (120OF)):
    - (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 or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
and  
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Roche Diagnostics Corporation  
Source Address: 9115 Hague Road, Indianapolis, Indiana 46250  
Mailing Address: PO Box 50457, Indianapolis, Indiana 46250-0457  
FESOP No.: 097-18965-00338

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

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
P.O. Box 6015  
100 North Senate Avenue  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967  
and  
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES  
Air Compliance  
2700 South Belmont Avenue  
Indianapolis, IN 46221-2209**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Roche Diagnostics Corporation  
Source Address: 9115 Hague Road, Indianapolis, Indiana 46250  
Mailing Address: PO Box 50457, Indianapolis, Indiana 46250-0457  
FESOP No.: 097-18965-00338

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

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

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

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , 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**

**FESOP Quarterly Report**

Source Name: Roche Diagnostics Corporation  
Source Address: 9115 Hague Road, Indianapolis, Indiana 46250  
Mailing Address: PO Box 50457, Indianapolis, Indiana 46250-50457  
FESOP No.: 097-18965-00338  
Facility: Five (5) Standby Generators: G1, G2, G3, G4, & G5  
Parameter: Combined diesel fuel throughput and combined natural gas throughput.  
Limit: Less than 293,439 gallons per twelve (12) consecutive month period. Every 1000 gallon decrease in consumption can be substituted with 0.08 MMCF of natural gas consumption per twelve (12) consecutive month period.

YEAR: \_\_\_\_\_

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

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

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

Source Name: Roche Diagnostics Corporation  
Source Address: 9115 Hague Road, Indianapolis, Indiana 46250  
Mailing Address: PO Box 50457, Indianapolis, Indiana 46250-50457  
FESOP No.: 097-18965-00338

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

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:**

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

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

**Source Background and Description**

<b>Source Name:</b>	<b>Roche Diagnostics Corporation</b>
<b>Source Location:</b>	<b>9115 Hague Road, Indianapolis, IN 46250-0457</b>
<b>County:</b>	<b>Marion</b>
<b>SIC Code:</b>	<b>2835</b>
<b>Operation Permit No.:</b>	<b>097-11275-00338</b>
<b>Operation Permit Issuance Date:</b>	<b>1/10/2000</b>
<b>Permit Renewal No.:</b>	<b>097-18965-00338</b>
<b>Permit Reviewer:</b>	<b>TJ Edwards</b>

The Indiana Department of Environmental Management (IDEM) Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES) have reviewed a FESOP renewal application from Roche Diagnostics Corporation relating to the operation of stand by and emergency generators.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G1. Emission Unit ID G1 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G1 exhausts at Stack/Vent ID G1. Installation date of 1993.
- (b) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G2. Emission Unit ID G2 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G2 exhausts at Stack/Vent ID G2. Installation date of 1993.
- (c) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G3. Emission Unit ID G3 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G3 exhausts at Stack/Vent ID G3. Installation date of 1993.

- (d) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G4. Emission Unit ID G4 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G4 exhausts at Stack/Vent ID G2. Installation date of 1993.
- (e) One (1) Kato reciprocating internal combustion engine model number 3516 identified as Emission Unit ID G5. Emission Unit ID G5 is a standby generator and burns diesel fuel at a maximum rated heat input of 18.16 million Btu per hour. Includes an alternative operating scenario of dual firing diesel fuel and natural gas firing up to a maximum natural gas heat input of 11.2 million Btu per hour. Emission Unit ID G5 exhausts at Stack/ Vent ID G5. Installation date of 2001.

### Unpermitted Emission Units and Pollution Control Equipment

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

### Insignificant Activities

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

- (a) Space heaters with fuel oil fired heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight;
  - 1) Six (6) portable space heaters identified as Emission Unit ID 6PSH. Each diesel fired portable space heater is rated at 100,000 Btu max heat input.
- (b) Combustion source flame safety purging on startup.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) Cleaners and solvents characterized as follows:
  - A) having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
  - B) having a vapor pressure equal to or less than 0.7 kPa; 5mm 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.
- (e) Closed loop heating and cooling systems.
- (f) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (g) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (h) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (i) Stationary fire pumps.
- (j) Other emergency equipment as follows:
  - (1) Gasoline generators not exceeding 110 horsepower.
    - (A) One (1) gasoline fired portable generator identified as Emission Unit ID K1. Emission Unit ID K1 is a reciprocating internal combustion engine rated at 12.5 kilowatts.
    - (B) One (1) gasoline fired portable generator identified as Emission Unit ID K2. Emission Unit ID K2 is a reciprocating internal combustion engine rated at 5.0 kilowatts.
  - (2) Diesel generators not exceeding 1600 horsepower:
    - (A) One (1) diesel fired emergency generator identified as Emission Unit ID L-18. Emission Unit ID L-18 is a Caterpillar Model 3406 reciprocating internal combustion engine rated at 3.1 million Btu maximum heat input

- and 402 horsepower output. Emission Unit ID L-18 exhausts at Stack/Vent ID L-18. Installation date of September 1999.
- (3) Natural gas reciprocating engines not exceeding 16,000 horsepower:
    - (A) One (1) natural gas fired emergency generator identified as Emission Unit ID A-P Tunnel. Emission Unit ID A-P Tunnel is a reciprocating internal combustion engine rated at 15 kilowatts.
  - (k) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]
  - (l) Noncontact cooling tower systems with either of the following:
    - (1) Forced and induced draft cooling tower system not regulated under a NESHAP.
  - (m) Heat exchanger cleaning and repair.
  - (n) A laboratory as defined in 326 IAC 2-7-1(20)(C).
  - (o) Other activities or categories not previously identified:
    - (1) One (1) paint spray booth identified as Building L11 Paint Spray Booth with potential to emit Volatile Organic Compounds (VOC) equal to or less than three (3) lbs/hour and fifteen (15) lbs/day.
    - (2) Building O Video Ink Jet & Make-up Fluid Operations with potential to emit any single HAP less than 5 lbs/day or 1 ton/year and any combination of HAP less than 12.5 lbs/day or 2.5 tons/year.
    - (3) Chemstrip Video Ink Jet & Make-up Fluid Operations with potential to emit any single HAP less than 5 lbs/day or 1 ton/year and any combination of HAP less than 12.5 lbs/day or 2.5 tons/year.

### Existing Approvals

The source has been operating under the previous FESOP 097-11275-00338 issued on 1/10/2000 with an expiration date of 1/10/2005, and the following amendments and revisions:

- (a) First Administrative Amendment 097-12717-00338 issued on 9/28/2000.
- (b) First Minor Permit Revision 097-14320-00338 issued on 6/12/2001.
- (c) Reopening 097-13083-00338 issued on 10/02/2001.

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) 097-11275-00338 issued on January 10, 2000

Condition C.14 Emission Statement

Reason not incorporated: Due to the revision to 326 IAC 2-6 which became effective on March 27, 2004, the Permittee is no longer required to submit an annual emissions statement. See also State Rule Applicability- Entire Source.

### Enforcement Issue

There are no enforcement actions pending.

### Recommendation

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

Unless otherwise stated, information used in this review was derived from the application.

An administratively complete FESOP renewal application for the purposes of this review was received on April 12, 2004.

There was no notice of completeness letter mailed to the source.

### Emission Calculations

See Appendix A of this document for detailed emission calculations.

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	<100
PM-10	<100
SO <sub>2</sub>	<250 >100
VOC	<100
CO	>250
NO <sub>x</sub>	>250

HAPs	Unrestricted Potential Emissions (tons/yr)
Benzene	<10
Toluene	<10
Xylene	<10
Propylene	<10
Total	<25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of pollutants are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.
- (b) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
G1, G2, G3, G4, G5	1.4	1.2	8.1	3.1	20.8	95.5	negligible
Insignificant Activities	0.2	0.2	0.4	10.3	3.0	3.5	negligible
Total Emissions	1.6	1.4	8.5	13.4	23.8	99.0	negligible

### County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	Maintenance attainment
NO <sub>2</sub>	attainment
1 Hour Ozone	Maintenance attainment
8 Hour Ozone	Basic nonattainment
CO	attainment
Lead	unclassifiable

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) 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<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for nonattainment new source review.
- (b) Marion County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these 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.
- (c) Fugitive Emissions  
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	<100
PM-10	<100
SO <sub>2</sub>	<100
VOC	<100
CO	<100
NO <sub>x</sub>	<100
Single HAP	<10
Combination HAPs	<25

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater, and it is not in one of the 28 listed source categories.

#### **Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source. 40 CFR 63, subparts MMMM, PPPP, ZZZZ do not apply because this is not a major source of HAP. 40 CFR Part 63 subpart T does not apply because the solvents used do not contain any of the chemicals listed in 40 CFR 63.460(a).

#### **State Rule Applicability – Entire Source**

326 IAC 1-6-3 (Malfunctions: Preventive Maintenance (PM) Plans) and 326 IAC 2-8-3 (FESOP: Permit Application)

The source is initially subject to 326 IAC 1-6-3 because it is required to obtain a permit under 326 IAC 2 (Permit Review Rules). However, 326 IAC 1-6-3 is superseded by 326 IAC 2-8-3 which requires the source to comply with the provisions of 326 IAC 1-6-3. Any person responsible for operating any facility specified in 326 IAC 1-6 shall prepare and maintain a Preventive Maintenance Plan which includes the following information:

- 1) Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control device(s).
- 2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions.
- 3) Identification and quantification of the replacement parts which will be kept in inventory and made available for quick replacement.

PMPs shall be submitted to IDEM, OAQ and/or OES upon request and shall be subject to review and approval by IDEM, OAQ and/or OES.

### 326 IAC 2.1-1.5 (Air Quality Requirements)

On June 15, 2004 Marion County was classified as basic nonattainment for 8 hour ozone. Emissions are limited to less than one hundred (100) tons per year of VOC and NO<sub>x</sub> therefore the permittee is not a major source. This renewal does not include any new construction.

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

This source has an operating permit under 326 IAC 2-8 (Federally Enforceable State Operating Permit Program) to limit source wide PTE under the PSD and major source thresholds for NO<sub>x</sub>, CO and SO<sub>2</sub> emissions. No modifications have taken place since the issuance of the initial FESOP that meet the definition of major modification under PSD.

This source installed four (4) standby generators in 1993 without receiving preconstruction approval and/or addressing New Source Review (NSR) issues. Potential to Emit NO<sub>x</sub> and CO has been determined to be in excess of 250 tons per year (see TSD Appendix A page 1 of 5) based on 8760 annual operating hours. However, the standby generators have historically operated at less than 500 hours per year for each unit and have historically had, per the application, actual emissions of less than 100 tons per year of NO<sub>x</sub> and CO. The source filed a Construction Permit application on September 17, 1998 for these units to address the NSR review issues when it was deemed at that time that the units were defined as standby generators and not emergency generators and, therefore, PTE should be calculated at 8760 annual operating hours and not be calculated at 500 annual operating hours. The source sought an operating permit under 326 IAC 2-8 (Federally Enforceable State Operating Permit Program) to limit source wide PTE under the PSD and major source thresholds for NO<sub>x</sub>, CO and SO<sub>2</sub> emissions.

On September 28, 2000 a First Administrative Amendment was issued for the purpose of adding Building L11 paint spray booth, classified as an insignificant activity. The PTE of the paint spray booth is less than three (3) pounds per hour and fifteen (15) pounds per day. As a result, emissions did not exceed any major source thresholds and therefore is not subject to PSD.

On June 12, 2001 a First Minor Permit Revision was approved pertaining to the addition of a fifth generator, Emission Unit ID G5 with no change in existing fuel use limitations. Compliance with 326 IAC 2-8-4(1)(a)(b) makes 326 IAC 2-7 (Part 70 Permit Program) not applicable and satisfies the requirement to limit NO<sub>x</sub>, SO and CO emissions below the major source level such that 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 do not apply.

### 326 IAC 2-6 (Emission Reporting)

The Permittee is not required to have an operating permit under 326 IAC 2-7, is located in Marion County, and does not have the potential to emit lead greater than 5 tons/yr, therefore they are not subject to the requirements of 326 IAC 2-6. However as a permitted source the permittee is subject to 326 IAC 2-6-5.

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

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

### 326 IAC 2-8 (Federally Enforceable State Operating Permit Program)

Pursuant to 326 IAC 2-8 (Federally Enforceable State Operating Permit Program) combined potential to emit NO<sub>x</sub> is limited to 293,439 gallons of diesel fuel consumption per twelve (12) consecutive month period with compliance determined at the end of each month (see TSD Appendix A page 1 of 5). This is equivalent to 95.5 tons of NO<sub>x</sub>, 17.1 tons of CO and 8.1 tons of SO<sub>2</sub> emissions per twelve (12) consecutive month period with compliance determined at the end of each month.

As an alternative operating scenario, the source wishes to fire a combination of diesel fuel and natural gas with natural gas being fired up to 60% of the total heat input capacity for each unit on an hourly basis. In regards to potential to emit, dual firing natural gas at 60% of the hourly heat input results in higher VOC and CO emissions than the firing of diesel fuel only (see TSD Appendix A page 4 of 5). However, the range of natural gas heat input can vary from greater than 0% but up to 60% of the heat input on an hourly basis. AP-42 emission factors for dual firing natural gas and diesel are estimated assuming natural gas heat input accounts for 95% of the total heat input on an hourly basis. For this reason, fuel equivalency limitations were not set utilizing the NO<sub>x</sub> emission factor for straight diesel firing versus firing natural gas at 60% of the total hourly heat input. Fuel equivalency was derived assuming natural gas firing could account for up to 60% of the heat input of the total annual diesel fuel firing limitation (293,439) and, as a worst case, the NO<sub>x</sub> emission factor for dual firing is equal to the (higher) NO<sub>x</sub> emission factor when firing straight diesel fuel. For every 1000 gallon decrease in diesel fuel consumption, approximately, 0.08 million cubic feet of natural gas can be fired and still limit the source to less than major source threshold for NO<sub>x</sub> emissions (see TSD Appendix A page 5 of 5). The alternative operating scenario is equivalent to 3.4 tons of SO<sub>2</sub>, and 70.8 tons of NO<sub>x</sub>, 3.1 tons of VOC and 20.8 tons of CO each twelve (12) consecutive month period.

Therefore, 326 IAC 2-7 and PSD do not apply.

#### 326 IAC 5-1 (Opacity Regulations)

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

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### 326 IAC 6-1 (County Specific Particulate Matter Limitations)

This source is not specifically listed in 326 IAC 6-1 nor does it have the potential to emit particulate matter greater than 100 tons/yr or actual emissions of 10 tons or more per year. Therefore, no PM limit for these units is established pursuant to 326 IAC 6-1 (Nonattainment Area Limitations).

#### 326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

No facilities at this source meet the definition of electricity generating units or large affected units.

### **State Rule Applicability – Individual Facilities**

#### **Emission Unit ID G1, G2, G3, G4 and G5 - Five Standby Generators**

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

The facilities at this source are not subject to 326 IAC 6-2 because they are not sources of indirect heating.

#### 326 IAC 6-3

Pursuant to 326 IAC 1-2-59(Definitions), liquid and gaseous fuels and combustion air will not be considered as part of the process weight in determining applicability of 326 IAC 6-3 (Process Operations). Therefore, 326 IAC 6-3 (Process Operations) does not apply to liquid and gaseous fuel fired generators at this source.

### 326 IAC 7 (Sulfur Dioxide Rules)

Pursuant to 326 IAC 2-8 (Federally Enforceable State Operating Permit Program), potential to emit NO<sub>x</sub>, SO<sub>2</sub> and CO are limited to less than major source significance levels. As a result, no individual standby or emergency generator has potential to emit sulfur dioxide in excess of twenty five (25) tons per year. Therefore, 326 IAC 7 (Sulfur Dioxide Rules) does not apply.

### 326 IAC 8-1-6 (New Facilities: General Reduction Requirements)

Emission Unit ID G1 through G5 were installed after 1980 but do not have potential emissions of Volatile Organic Compounds (VOC) of 25.0 tons per year or more (see TSD Appendix A page 1 of 5). Therefore, 326 IAC 8-1-6 does not apply.

## **Paint Booth**

### 326 IAC 6-3 (Particulate Emission Limitations)

The paint booth at this source is not subject to 326 IAC 6-3 because, pursuant to 326 IAC 6-3-1 (b) (15) surface coating manufacturing processes that use less than 5 gallons per day are exempt from this rule.

### 326 IAC 8-2 (Volatile Organic Compound Rules)

The paint booth at this source is not subject to 326 IAC 8-2 because potential emissions of VOC are less than 15 pounds per day (326 IAC 8-2-1(a)(4)).

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

### 326 IAC 8-3 (Organic Solvent Degreasing Operations)

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

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

### 326 IAC 8-3-5 Volatile Organic Compounds (VOC)

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following 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 (38OC) (one hundred degrees Fahrenheit (100OF));

- (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 (38OC) (one hundred degrees Fahrenheit (100OF)), 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 (38OC) (one hundred degrees Fahrenheit (100OF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9OC) (one hundred twenty degrees Fahrenheit (120OF)):
- (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 or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

### Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state

and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also 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.

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

No compliance monitoring requirements are applicable to this source because each of the five (5) standby generators, the only significant emitting emission units at this source, are limited to 293,439 gallons of diesel fuel consumption per rolling twelve (12) consecutive month period, which, thereby limits the potential to emit NO<sub>x</sub> (and CO) to less than 100 tons per twelve (12) consecutive month period and the potential to emit of all other criteria pollutant from each standby generator to less than 25 tons per rolling twelve (12) consecutive month period. In addition, no emission unit is equipped with any add on air pollution control devices(s).

Semiannual reporting, at a minimum, is required pursuant to 326 IAC 2-8-4(3)(C) (Permit Content). Because the source is being limited, such that NSR Nonattainment 326 IAC 2-1.1-5 and 326 IAC 2-7 do not apply, the source will be required to submit reporting of fuel use for Emission Unit ID's G1 through G5 quarterly utilizing the FESOP Quarterly Report Form. The Compliance Monitoring Report Form will be submitted quarterly to coincide with the reporting of the required FESOP Quarterly Report Form.

### **Compliance Monitoring**

The source requested VE's as a method to monitor compliance with the 30% opacity limit.

- (a) Visible emission notations of the emergency and standby generators stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation and Implementation shall be considered a deviation from this permit.

**Conclusion**

The operation of standby and emergency generators under a Standard Industrial Classification Code (SIC) of 2835 In Vitro and In Vivo Diagnostic Substances shall be subject to the conditions of the attached proposed **FESOP No.: F097-18965-00338**.

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

Addendum to the Technical Support Document  
for a FESOP

<b>Source Name:</b>	<b>Roche Diagnostics Corporation</b>
<b>Source Location:</b>	<b>9115 Hague Road, Indianapolis, Indiana 46250</b>
<b>County:</b>	<b>Marion</b>
<b>SIC Code:</b>	<b>2835</b>
<b>Operation Permit No.:</b>	<b>F097-18965-00338</b>
<b>Permit Reviewer:</b>	<b>TJ Edwards</b>

On October 19<sup>th</sup>, 2004, the Office of Air Quality (OAQ) and the Office of Environmental Services (OES) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that Roche Diagnostics Corporation had applied for a FESOP Renewal to operate stand by and emergency generators. The notice also stated that OAQ and OES proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On November 17<sup>th</sup>, 2004, Roche Diagnostics Corporation submitted comments on the draft FESOP Renewal. Upon further review, the OAQ and OES have decided to make the following revisions to the FESOP Renewal. The TSD will remain as it originally appeared when published. Changes to the permit or technical support material that occur after the permit has published for public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. Bolded language has been added and the language with strikethrough has been deleted. The Table of Contents has been modified to reflect these changes.

The comments and responses, including changes to the permit, are as follows:

**Comment 1:**

- a) Condition D.1.1(c): This condition restricts the sulfur content of fuel oil burned by Roche to 0.4% by weight. Roche requests that the sulfur content limit in this condition be changed to 0.5% by weight, as provided in Indiana Rule 326 IAC 3-7-4. It is Roche's understanding that this change will not affect the overall fuel limit for the facility.
- b) Condition D.1.3(a): This condition should also be revised to changed the fuel oil sulfur content limit from 0.4% to 0.5%, consistent with Indiana Rule 326 IAC 3-7-4.

**Response to Comment 1:**

Both a & b request a revision to the fuel oil sulfur content limit of four-tenths (0.4%) percent by weight. As requested by the source all reference to this limit have changed in the permit as well as the emission calculations for sulfur.

D.1.1 PSD Minor Limit [326 IAC 2-8-4(1)][326 IAC 2-2][326 IAC 2-1.1-5][326 IAC 7-1.1-1]

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Pursuant to FESOP 097-11275-00338 Issued January 10, 2000:

- (a) The combined total sum of diesel fuel input to Emission Unit ID G1, G2, G3, G4 and G5 shall not exceed 293,435 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. This usage limit is equivalent to 95.5 tons NO<sub>x</sub>, 17.1 tons of CO and ~~8.4~~ **10.2** tons of SO<sub>2</sub> emissions per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The fuel allotment in subpart a) of this condition shall be adjusted when combusting more than one (1) fuel by the following: Every one (1) thousand gallon reduction in diesel fuel consumption can be substituted for 0.08 million cubic feet of natural gas consumption provided natural gas consumption does not exceed 24.0 million cubic feet per rolling twelve (12) consecutive month period.
- (c) The sulfur content of the fuel oil shall not exceed ~~four-tenths~~ **five-tenths** percent (~~0.4%~~) (**0.5%**) by weight.

Compliance with a), b) and c) makes 326 IAC 2-7 (Part 70 Permit Program) not applicable and satisfies the requirement to limit NO<sub>x</sub>, SO<sub>2</sub> and CO emissions to below the major source level such that 326 IAC 2-2 (Prevention of Significant Deterioration), 326 IAC 2-1.1-5 and 326 IAC 7-1.1-1 do not apply.

D.1.3 Sulfur Content

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Compliance with Condition D.1.1(c) shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed ~~four-tenths~~ **five-tenths** (~~0.4%~~) (**0.5%**) percent by weight:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Five Standby By Generators  
Emission Unit IDs  
G1, G2, G3, G4 & G5

Appendix A: Emissions Calculations  
Diesel Fuel Fired  
Internal Combustion Engines - Industrial Reciprocating  
> 600 hp  
Roche Diagnostics Corporation  
9115 Hague Road, Indianapolis, IN 46250-0457  
F097-18965-00338  
TJ Edwards  
June 2004

Company Name:  
Address City IN Zip:  
Pit ID:  
Reviewer:  
Date:

Each Unit:

Max Heat Input (MMBtu/hr)	Max Sulfur Content (% wt)	diesel fuel Btu/gal	Potential Thru (gal/yr)
18.16	0.4	137,000	1,161,179.6

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu (AP-42)	<b>0.07</b>	<b>0.06</b>	<b>1.01(S)</b>	3.20	--	<b>0.85</b>
Emission Factor in lb/MMBtu (manufacturer)	---	0.0308	<b>1.01(S)</b>	<b>4.7511</b>	<b>0.08</b>	0.5358
Potential Emissions in lbs/hr	1.3	1.0	7.3	86.3	1.5	15.4
Potential Emissions in tons/yr	5.5	4.6	32.1	377.9	6.4	67.6
Tons sum of 5 units @ 8760 hrs/yr each	27.7	22.8	160.7	1889.5	31.8	338.0
Tons sum @ limited thru; see below	1.4	1.2	8.1	95.5	0.0	17.1

emfac used is in bold

Methodology

Emission Factors used are the highest emission rate from either AP-42 Fifth Edition Tables 3.4-1 and 3.4-2 or manufacturer's estimate  
Sulfur Content & Btu from AP-42 Appendix A  
Potential thru (gal/yr) = MMBtu/hr x gal/0.137 MMBtu x 8760 hr/yr

**HAPs**

	Benzene	Toluene	Xylene	Propylene	Formaldehyde	Total PAH
Emission Factor in lb/MMBtu	7.76E-04	2.81E-04	1.93E-04	2.79E-03	7.89E-05	2.21E-04
Potential Emissions in lbs/hr	0.0	0.0	0.0	0.1	0.0	0.0
Potential Emissions in tons/yr	0.1	0.0	0.0	0.2	0.0	0.0
Tons sum of 5 units @ 8760 hrs/yr each	0.3	0.1	0.1	1.1	0.0	0.1
Tons sum at limited thru; see below	0.0	0.0	0.0	0.1	0.0	0.0

Methodology

Emission Factors from AP-42 Fifth Edition Table 3.4-3

**Limited total diesel fuel consumption: to limit Significant + Insignificant < major source**

99.0 tons NOx - 3.5 tons NOx from Insignificant Activities = 95.5 tons NOx from Significant emission units

**What combined total diesel fuel use limitation will limit NOx < 95.5 tons/yr?**

x gal/yr x 137000 Btu/gal x MMBtu/10^6 Btu x 4.7511 #NOx/MMBtu x ton/2000 lbs = 95.5 tons NOx/yr; x =

293,439 gallons/yr

One Emergency Generator  
Emission Unit ID L-18

**Appendix A: Emissions Calculations**  
Diesel Fuel Fired  
Internal Combustion Engines - Industrial Reciprocating  
< 600 hp

Company Name: Roche Diagnostics Corporation  
Address City IN Zip: 9115 Hague Road, Indianapolis, IN 46250-0457  
Plt ID: F097-18965-00338  
Reviewer: TJ Edwards  
Date: June 2004

Max Output (hp)	Max Heat Input (MMBtu/hr)	Max Sulfur Content (% wt)	diesel fuel Btu/gal	Potential Thru (gal/yr)
402	3.1	0.4	137,000	198,219.0

Emission Factor in lb/MMBtu	PM	PM10	SO2	NOx	VOC	CO
	0.31	0.31	0.29	4.41	0.35	0.95
Potential Emissions in lbs/hr	1.0	1.0	0.9	13.7	1.1	2.9
Potential Emissions in tons/yr	4.2	4.2	3.9	59.9	4.8	12.9
Potential Emissions @ 500 hrs/yr	0.2	0.2	0.2	3.4	0.3	0.7

Methodology

Emission Factors from AP-42 Fifth Edition Table 3.3-1  
Sulfur Content & Btu from AP-42 Appendix A  
Potential thru (gal/yr) = MMBtu/hr x gal/0.137 MMBtu x 8760 hr/yr

**HAPs**

Emission Factor in lb/MMBtu	Benzene	Toluene	Xylene	Propylene	Formaldehyde	Total PAH
	9.33E-04	4.09E-04	2.85E-04	2.58E-03	1.18E-03	1.68E-04
Potential Emissions in lbs/hr	0.0	0.0	0.0	0.0	0.0	0.0
Potential Emissions in tons/yr	0.0	0.0	0.0	0.0	0.0	0.0
Potential Emissions @ 500 hrs/yr	0.0	0.0	0.0	0.0	0.0	0.0

Methodology

Emission Factors from AP-42 Fifth Edition Table 3.3-2

**Limited diesel fuel consumption: operating for 500 hrs/yr annually**

max heat input x gal/MMBtu x 500 hrs/yr 1 unit = 11,313.9 gallons/yr

0338calc.wk4

A-P Tunnel Generator  
Emission Unit ID  
A-P Tunnel  
Natural Gas Fired

Appendix A: Emissions Calculations  
Insignificant Activities  
Natural Gas Fired - Gasoline - & Diesel Fired  
Internal Combustion Engines - Industrial Reciprocating  
< 600 hp  
Roche Diagnostics Corporation  
Company Name:  
Address City IN Zip: 9115 Hague Road, Indianapolis, IN 46250-0457  
Plt ID: F097-18965-00338  
Reviewer: TJ Edwards  
Date: June 2004

output kw rating 15	equivalent MMBtu rating 0.0512	resultant MMCF/hr 0.00005
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Emission Factor lbs / MMCF	PM	PM10	SOx	NOx	VOC	CO
	10.0	10.0	0.6	3400.0	82.9	430.0
Potential Emissions lbs/hr	0.0	0.0	0.0	0.2	0.0	0.0
tons/yr @ 8760 hrs/yr	0.0	0.0	0.0	0.8	0.0	0.1
tons/yr @ 500 hrs/yr	0.0	0.0	0.0	0.0	0.0	0.0

Methodology  
Emission Factor (lbs / MMCF): from SCC# 2-03-002-01 Internal Combustion Engines - Commercial/Institutional Natural Gas Fired Reciprocating Engines  
AP-42 Appendix A Conversion Factor: 1 kilowatt hour = 3410 Btu  
AP-42 Appendix A Conversion Factor: 1 horsepower = 2.5435E03 Btu  
Equivalent MMBtu rating: output kw rating x 3410 / 1,000,000  
Equivalent Horsepower: million Btu / 2.5435E03  
resultant MMCF / hr: equivalent MMBtu/hr rating / 1000

K-Bldg Gasoline Portable Generator 1  
Emission Unit ID K1  
Gasoline Fired

output kw rating 12.5	equivalent MMBtu rating 0.0426	resultant MMCF/hr 0.00004
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Emission Factor lbs / MMBtu	PM	PM10	SOx	NOx	VOC	CO
	0.1	0.1	0.1	1.6	2.1	154.0
Potential Emissions lbs/hr	0.0	0.0	0.0	0.1	0.1	6.6
tons/yr @ 8760 hrs/yr	0.0	0.0	0.0	0.3	0.4	28.8
tons/yr @ 500 hrs/yr	0.0	0.0	0.0	0.0	0.0	1.6

Methodology  
Emission Factor (lbs / MMBtu): from AP-42 Table 3.3-1 Gasoline Fired Reciprocating Engines < 600 hp

K-Bldg Gasoline Portable Generator 2  
Emission Unit ID K2  
Gasoline Fired

output kw rating 5	equivalent MMBtu rating 0.0171	resultant MMCF/hr 0.00002
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Emission Factor lbs / MMBtu	PM	PM10	SOx	NOx	VOC	CO
	0.1	0.1	0.1	1.6	2.1	154.0
Potential Emissions lbs/hr	0.0	0.0	0.0	0.0	0.0	2.6
tons/yr @ 8760 hrs/yr	0.0	0.0	0.0	0.1	0.2	11.5
tons/yr @ 500 hrs/yr	0.0	0.0	0.0	0.0	0.0	0.7

Methodology  
Emission Factor (lbs / MMBtu): from AP-42 Table 3.3-1 Gasoline Fired Reciprocating Engines < 600 hp

6 Portable Space Heaters  
100,000 Btu/hr each  
Emission Unit ID 6PSH

6 @ 100,000 ea =	MMBtu/hr rating 0.6	Percent Sulfur 0.35	Btu per Gallon 137000	kgal/hr 0.0044
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Emission Factor lbs / kgal	PM	PM10	SOx	NOx	VOC	CO
	2.5	1.3	50.3 143.6(S)	18.0	1.0	5.0
Potential Emissions lbs/hr	0.0	0.0	0.9	0.3	0.0	0.1
tons/yr @ 8760 hrs/yr	0.0	0.0	3.8	1.3	0.1	0.4
tons/yr @ 500 hrs/yr	0.0	0.0	0.2	0.1	0.0	0.0

Methodology  
Emission Factor (lbs / MMCF): from SCC 1-05-002-05 Commercial/Institutional Space Heaters - Distillate oil  
MMBtu/hr to kgal/hr: MMBtu/hr x 10^6 Btu/MMBtu x gal/137,000 Btu x kgal/1000 gal

Insignificant Paint Booth  
VOC PTE < 10 tons/yr

Tons per year sum of Insignificant Activities at 500 hrs per year each

Emission Unit ID	PM	PM10	SOx	NOx	VOC	CO
A-P Tunnel	0.0	0.0	0.0	0.0	0.0	0.0
K1	0.0	0.0	0.0	0.0	0.0	1.6
K2	0.0	0.0	0.0	0.0	0.0	0.7
6SPSH	0.0	0.0	0.2	0.1	0.0	0.0
L-18	0.2	0.2	0.2	3.4	0.3	0.7
Paint Booth	negl	negl	0	0	10	0
<b>SUM</b>	<b>0.2</b>	<b>0.2</b>	<b>0.4</b>	<b>3.5</b>	<b>10.3</b>	<b>3.0</b>

Five Standby By Generators  
Emission Unit IDs  
G1, G2, G3, G4 & G5  
Alternative Operating Scenario

Appendix A: Emissions Calculations  
Conversion to 40% Diesel Fuel Fired/60% Natural Gas Firing  
Internal Combustion Engines - Industrial Reciprocating  
> 600 hp

Company Name: Roche Diagnostics Corporation  
Address City IN Zip: 9115 Hague Road, Indianapolis, IN 46250-0457  
Pit ID: F097-18965-00338  
Reviewer: T.J Edwards  
Date: June 2004

Each Unit on 100% diesel:

Max Output (hp)	Max Heat Input (MMBtu/hr)	Max Sulfur Content (% wt)	diesel fuel Btu/gal	Potential Thru (gal/yr)
2615	18.16	0.4	137,000	1,161,179.6

Emission Factor in lb/MMBtu	PM	PM10	SO2	NOx	VOC	CO
	0.07	0.06	1.01(S) 0.40	4.7511	0.08	0.85
Potential Emissions in lbs/hr	1.3	1.0	7.3	86.3	1.5	15.4
Potential Emissions in tons/yr	5.5	4.6	32.1	377.9	6.5	67.6

NOx emfac is manufacturer's estimate > AP-42

Tons sum of 5 units @ 8760 hrs/yr each	27.7	22.8	160.7	1889.5	32.6	338.0
Tons sum @ limited thru; see below	1.4	1.2	8.1	95.5	1.6	17.1

Methodology

Emission Factors from AP-42 Fifth Edition Tables 3.4-1 and 3.4-2 or manufacturers estimate whichever is higher  
Sulfur Content & Btu from AP-42 Appendix A  
Potential thru (gal/yr) = MMBtu/hr x gal/0.137 MMBtu x 8760 hr/yr

**HAPs**

Emission Factor in lb/MMBtu	Benzene	Toluene	Xylene	Propylene	Formaldehyde	Total PAH
	7.76E-04	2.81E-04	1.93E-04	2.79E-03	7.89E-05	2.21E-04
Potential Emissions in lbs/hr	0.0	0.0	0.0	0.1	0.0	0.0
Potential Emissions in tons/yr	0.1	0.0	0.0	0.2	0.0	0.0

Tons sum of 5 units @ 8760 hrs/yr each	0.3	0.1	0.1	1.1	0.0	0.1
Tons sum at limited thru; see below	0.0	0.0	0.0	0.1	0.0	0.0

Methodology

Emission Factors from AP-42 Fifth Edition Table 3.4-3

**Limited total diesel fuel consumption: to limit Significant + Insignificant < major source**

99.0 tons NOx - 3.5 tons NOx from Insignificant Activities = 95.5 tons NOx from Significant emission units

**What combined total diesel fuel use limitation will limit NOx < 95.5 tons/yr?**

$x \text{ gal/yr} \times 137000 \text{ Btu/gal} \times \text{MMBtu}/10^6 \text{ Btu} \times 4.7511 \text{ \#NOx/MMBtu} \times \text{ton}/2000 \text{ lbs} = 95.5 \text{ tons NOx/yr}; x = 293,439 \text{ gallons/yr}$

Each Unit on 40% diesel/60% nat gas mix:

Max Output (hp)	(Total) Max Heat Input (MMBtu/hr)	Dual fuel max heat input (MMBtu/hr)	Straight Diesel heat input (MMBtu/hr)	Max Sulfur Content (% wt)
2615	18.74	11.2	6.801	0.4

Emission Factor in lb/MMBtu (Straight)	PM	PM10	SO2	NOx	VOC	CO
Emission Factor lb/MMBtu (Dual Fuel)	ND	ND	1.01(S) 0.05(S1) + 0.895(S2) 0.4 and 0.021	4.7511 2.70	0.08 0.20	0.85 1.16
Potential Emissions in lbs/hr (Straight)	0.5	0.4	2.7	32.3	0.5	5.8
Potential Emissions in tons/yr (Straight)	2.1	1.7	12.0	141.5	2.4	25.3
Potential Emissions in lbs/hr (Dual)	0.0	0.0	0.2	30.2	2.2	13.0
Potential Emissions in tons/yr (Dual)	0.0	0.0	1.0	132.5	9.8	56.9
SUM tons @ 8760 hrs	2.1	1.7	13.1	274.0	12.2	82.2
Tons SUM of 4 units @ 8760 hrs/yr each	8.3	6.8	52.3	1095.9	48.8	328.9
Total increase in tons from conversion per unit	-3.5	-2.9	-19.1	-103.9	5.7	14.6
Total increase in tons from conversion for all units combined	-19.4	-16.0	-108.4	-793.6	16.2	-9.1

NOx mfrs estimate is > AP-42

VOC & CO PTE higher when burning dual fuel

Methodology

Emission Factors from AP-42 Fifth Edition Tables 3.4-1 and 3.4-2  
Sulfur Content & Btu from AP-42 Appendix A  
No HAPs emissions provided in AP-42

**Generation of Multiple Fuel Use  
Limitation for G1, G2, G3, G4 & G5**

**Appendix A: Emissions Calculations**

TSD Appendix A Page 5 of 5

Company Name: Roche Diagnostics Corporation  
 Address City IN Zip: 9115 Hague Road, Indianapolis, IN 46250-0457  
 Pit ID: F097-189655-00338  
 Reviewer: T.J Edwards  
 Date: June 2004

When burning diesel only:

**Limited total diesel fuel consumption: to limit Significant + Insignificant < major source**

99.0 tons NOx - 3.5 tons NOx from Insignificant Activities = 95.5 tons NOx from Significant emission units

**What combined total diesel fuel use limitation will limit NOx < 95.5 tons/yr?**

X gal/yr x 137000 Btu/gal x MMBtu/10<sup>6</sup> Btu x 4.7511 #NOx/MMBtu x ton/2000 lbs = 95.5 tons NOx / **293,439 gallons/yr**

When burning diesel / natural gas mix up to 60% max heat input from natural gas:

293,439 gal diesel / yr x 137,000 Btu / gal = 40,201 MMBtu / yr required heat input for all units combined on an annual basis  
 40,201 MMBtu / yr x 60% max heat input from natural gas = 24,120 MMBtu / yr required heat input from natural gas consumption  
 24,120 MMBtu / yr / 1000 MMBtu / MMCF = 24.0 MMCF maximum natural gas consumption  
**24.0 MMCF / 293.4 kgal = 0.08 MMCF consumption allowed per kgal decrease in consumption**

check: 293,439 gal/yr

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.07	0.06	1.01(S) 0.40	4.7511	0.08	0.85
tons sum @ limited throughput	1.4	1.2	8.1	95.5	1.6	17.1

NOx emfac is manufacturer's estimate > AP-42

	Dual fuel max heat input per year (MMBtu/yr) 24120	Straight Diesel max heat input per year (MMBtu/yr) 16081		NOx	VOC	CO
	PM	PM10	SO2			
Emission Factor in lb/MMBtu (Straight)	0.07	0.06	1.01(S)	4.7511	0.08	0.85
Emission Factor lb/MMBtu (Dual Fuel)	ND	ND	0.05(S) + 0.895(S2)	2.70	0.20	1.16
Potential Emissions in tons/yr (Straight)	0.6	0.5	3.2	38.2	0.6	6.8
Potential Emissions in tons/yr (Dual)	0.0	0.0	0.2	32.6	2.4	14.0
Sum at limited throughput in tons/yr	0.6	0.5	3.4	70.8	3.1	20.8

NOx mfgs estimate is > AP-42

VOC & CO Limited PTE higher when burning dual