



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 28, 2012

RE: Rensselaer Municipal Electric Utility / 073-31850-00020

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

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



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100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

December 28, 2012

Ms. Donna Cochran
Rensselaer Municipal Electric Utility
122 S. Van Rensselaer St.
P.O. Box 280
Rensselaer, Indiana 47978

Re: 073-31850-00020
Significant Permit Modification to
Part 70 Operating Permit T073-30580-00020

Dear Ms. Cochran:

Rensselaer Municipal Electric Utility was issued a Part 70 Operating Permit Renewal on November 15, 2011 for a stationary electric power generation source. A letter requesting changes to this permit was received on May 10, 2012, Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

Rensselaer Municipal Electric Utility has applied to update the permit relating to clarifications of the existing permit language specific in Section D, changes to existing conditions and including conditions in the previous permit that were inadvertently left out in the current renewal permit.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire Part 70 Operating Permit as modified will be provided at issuance. A copy of this permit is available on the Internet at: www.in.gov/ai/appfiles/idem-caats/

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Anh Nguyen, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Anh Nguyen or extension (3-5334), or dial (317) 233-5334.

Sincerely,

Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit
Technical Support Document

AN

cc: File – Jasper County
Jasper County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Rensselaer Municipal Electric Utility
425 N. Van Rensselaer St .
Rensselaer, Indiana 47978**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T073-30580-00020	
Issued by: Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: November 15, 2011 Expiration Date: November 15, 2016

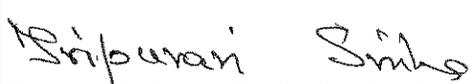
Significant Permit Modification: 073-31850-00020	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: December 28, 2012 Expiration Date: November 15, 2016

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary electric power generation source.

Source Address:	425 N. Van Rensselaer St, Rensselaer, Indiana 47978
General Source Phone Number:	(219) 866-8475
SIC Code:	4911
County Location:	Jasper
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 5, constructed in 1950, exhausting to Stack #5, capacity: 1,980 kW (name plate), 20.3 million British thermal units per hour heat input and 2,800 horsepower output.
- (b) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 6, constructed in 1957, exhausting to Stack #6, capacity: 2,500 kW (name plate), 25.2 million British thermal units per hour heat input and 3,500 horsepower output.
- (c) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 10, constructed in 1971, exhausting to Stack #10, capacity: 2,070 kW (name plate), 21.0 million British thermal units per hour heat input and 2,880 horsepower output.
- (d) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 11, constructed in 1971, exhausting to Stack #11, capacity: 2,070 kW (name plate), 21.0 million British thermal units per hour heat input and 2,880 horsepower output.
- (e) One (1) four cycle dual fuel compression ignition reciprocating generator with optional operation as diesel-only unit, firing low sulfur diesel and natural gas, identified as Generator 14, constructed in 1994, exhausting to Stack #14, capacity: 67.6 million British thermal units per hour heat input and 7,920 horsepower output.

- (f) One (1) four stroke, lean burn, natural gas-fired spark ignition reciprocating generator, identified as Generator 15, constructed in 2006, equipped with a voluntary catalytic unit, exhausting to Stack #15, capacity: 8,040 kW (name plate) and 72.3 million British thermal units per hour (72,319 cubic feet of natural gas per hour).

A.3 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 (One (1) batch, cold cleaner degreasing operation, constructed in 1987, using 15 gallons of cleaning solvent per year, exhausting to the building). [326 IAC 8-3-2]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (c) Cleaners and solvents characterized as having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 degrees F) and the use of which all cleaners and solvents combined does not exceed 145 gallons per 12 months. [326 IAC 8-3-2]
- (d) Cleaners and solvents characterized as having vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 degrees C (68 degrees F) and the use of which all cleaners and solvents combined does not exceed 145 gallons per 12 months. [326 IAC 8-3-2]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T073-30580-00020, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

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

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

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

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
 - (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

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

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

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

PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

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

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

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

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

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

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

- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T073-30580-00020 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or

anticipated noncompliance does not stay any condition of this permit.

[326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes

final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

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

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

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

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

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

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

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

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at

least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to

thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);
or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.

- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue

MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 5, constructed in 1950, exhausting to Stack #5, capacity: 1,980 kW (name plate), 20.3 million British thermal units per hour heat input and 2,800 horsepower output.
- (b) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 6, constructed in 1957, exhausting to Stack #6, capacity: 2,500 kW (name plate), 25.2 million British thermal units per hour heat input and 3,500 horsepower output.
- (c) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 10, constructed in 1971, exhausting to Stack #10, capacity: 2,070 kW (name plate), 21.0 million British thermal units per hour heat input and 2,880 horsepower output.
- (d) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 11, constructed in 1971, exhausting to Stack #11, capacity: 2,070 kW (name plate), 21.0 million British thermal units per hour heat input and 2,880 horsepower output.
- (e) One (1) four cycle dual fuel compression ignition reciprocating generator with optional operation as diesel-only unit, firing low sulfur diesel and natural gas, identified as Generator 14, constructed in 1994, exhausting to Stack #14, capacity: 67.6 million British thermal units per hour heat input and 7,920 horsepower output.
- (f) One (1) four stroke, lean burn, natural gas-fired spark ignition reciprocating generator, identified as Generator 15, constructed in 2006, equipped with a voluntary catalytic unit, exhausting to Stack #15, capacity: 8,180 bhp/hr, and 72.3 million British thermal units per hour (72,319 cubic feet of natural gas per hour).

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

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

D.1.1 PSD and VOC Minor Limits [326 IAC 2-2] [326 IAC 8-1-6]

Pursuant to CP 073-2461-00020, issued on July 22, 1992, and SPM 073-23227-00020, issued on September 29, 2006, the following limits are applicable to the six (6) generators, identified as Generators 5, 6, 10, 11, 14 and 15:

- (a) The combined usage of natural gas equivalent shall be limited to less than 192,000,000 cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (1) Usage of one (1) gallon of diesel fuel shall be considered equal to using 231 cubic feet of natural gas. Monthly usage of diesel shall be converted to equivalent natural gas usage and added to actual natural gas usage for fuel usage reporting.
 - (2) The emission rate of NO_x shall not exceed 0.578 pound per gallon of diesel;

- (3) The emission rate of NO_x shall not exceed 0.0025 pound per cubic foot of natural gas;
- (4) The emission rate of CO for diesel fuel shall not exceed 0.25 pound per gallon;
- (5) CO emission rate from natural gas shall not exceed 0.002 pound per cubic foot

Compliance with the above limits and the potential to emit of the other emission units at this source will limit the source to less than 250 tons per twelve (12) consecutive month period of NO_x , SO_2 and CO and less than one hundred thousand (<100,000) tons of CO_2 equivalent emissions (CO_2e) and shall render the requirements of 326 IAC 2-2, PSD, not applicable to the entire source.

- (b) The emission rate of VOC shall not exceed 0.000255 pound per cubic foot of natural gas

Compliance with the above limits and the potential to emit of the other emission units at this source will limit the source VOC emissions from Generators 14 and 15 each to less than 25 tons per twelve consecutive month period and render the requirements of 326 IAC 8-1-6 not applicable to Generators 14 and 15.

D.1.2 Hazardous Air Pollutants (HAPs) Minor Limit [326 IAC 20] [40 CFR 63]

The following limits shall apply

- (a) The Formaldehyde emissions shall not exceed $8.3\text{E-}5$ pound of cubic foot of natural gas.

In combination with the fuel use limitations in Condition D.1.1, this shall limit the potential to emit of each individual HAP from this source to less than ten (10) tons per year and total HAP emissions to less than twenty-five (25) tons per year. Therefore, the source is an area source of HAPs.

D.1.3 Sulfur Dioxide [326 IAC 7-1.1] [40 CFR 72.7]

- (a) Pursuant to 326 IAC 7-1.1-2, the SO_2 emissions from each of the generators operating on diesel fuel shall be limited to five-tenths (0.5) pound per MMBtu for distillate oil combustion.
- (b) Pursuant to the Acid Rain Program - New Units Exemption, 40 CFR 72.7, the Permittee shall comply with the following for Generators 14 and 15 in order to comply with the Acid Rain Program exemption:
 - (1) The nameplate capacity of the source shall not exceed twenty-five (25) megawatts, total;
 - (2) The generators shall not combust coal or a coal-derived fuel; and
 - (3) The annual average weight percentage sulfur content of the fuels used at the two (2) generators, identified as Generators 14 and 15, shall not exceed 0.05% (as determined under 40 CFR 72.7(d)). This will also ensure compliance with 326 IAC 7-1.1-2 for these two (2) generators.
 - (4) For any period for which a unit is exempt under this 40 CFR 72.7, the unit is not an affected unit under the Acid Rain Program and parts 70 and 71 of this chapter and is not eligible to be an opt-in source under part 74 of this chapter. As an unaffected unit, the unit shall continue to be subject to any other applicable requirements under parts 70 and 71 of this chapter.

- (5) On the earliest of the following dates, a unit exempt under 40 CFR 72.7(b), (c), or (e) shall lose its exemption and become an affected unit under the Acid Rain Program and 40 CFR Parts 70 and 71:
- (A) The date on which the unit first serves one or more generators with total nameplate capacity in excess of 25 MWe;
 - (B) The date on which the unit burns any coal or coal-derived fuel except for coal-derived gaseous fuel with a total sulfur content no greater than natural gas; or
 - (C) January 1 of the year following the year in which the annual average sulfur content for gaseous fuel burned at the unit exceeds 0.05 percent by weight (as determined in D.1.6 of this section) or for nongaseous fuel burned at the unit exceeds 0.05 percent by weight (as determined in D.1.6 of this section).
 - (D) Notwithstanding 40 CFR 72.30(b) and (c), the designated representative for a unit that loses its exemption under this section shall submit a complete Acid Rain permit application 60 days after the first date on which the unit is no longer exempt.
 - (E) For the purpose of applying monitoring requirements under 40 CFR 75, a unit that loses its exemption under this section shall be treated as a new unit that commenced commercial operation on the first date on which the unit is no longer exempt.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.1.5 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

In order to demonstrate compliance with Condition D.1.3(a), the Permittee shall utilize one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million British thermal units heat input by:
 - (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.

- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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.

D.1.6 Acid Rain Emission Sulfur Content [40 CFR 72.7]

In order to demonstrate compliance with Condition D.1.3(b), pursuant to 40 CFR 72.7(d), compliance with the requirement that fuel burned during the year have an annual average sulfur content of 0.05 percent by weight or less shall be determined as follows using a method of determining sulfur content that provides information with reasonable precision, reliability, accessibility, and timeliness:

- (1) For gaseous fuel burned during the year, if natural gas is the only gaseous fuel burned, the requirement is assumed to be met;
- (2) For nongaseous fuel burned during the year, the requirement is met if the annual average sulfur content is equal to or less than 0.05 percent by weight. The annual average sulfur content, as a percentage by weight, shall be calculated using the equation in 40 CFR 72.7(d)(2). In lieu of the factor, volume times density (V_{ndn}), in the equation, the factor, mass (M_n), may be used, where M_n is: mass of the nongaseous fuel in a delivery during the year to the unit of which the n th sample is taken, in lb; or, for fuel delivered during the year to the unit continuously by pipeline, mass of the nongaseous fuel delivered starting from when the n th sample of such fuel is taken until the next sample of such fuel is taken, in lb.

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

D.1.7 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1, D.1.2 (a), D.1.3, D.1.5, and D.1.6 the Permittee shall maintain records in accordance with (1) through (4) below.
 - (1) Calendar dates covered
 - (2) Actual natural gas usage, and diesel fuel usage per month.
 - (3) If supplier certifications are used to demonstrate compliance with Condition D.1.3, fuel supplier certifications for sulfur content and the name of the fuel supplier; and
 - (4) To document the compliance status with condition D.1.3(b), the Permittee shall maintain records in accordance with 40CFR 72.7(d)(3).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.8 Reporting Requirements

Quarterly summaries of the information to document the compliance status with the fuel usage limitation in Condition D.1.1 shall be submitted not later than (30) days after the end of the quarter being reported. Section C - General Reporting Requirements, contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 (One (1) batch, cold cleaner degreasing operation, constructed in 1987, using 15 gallons of cleaning solvent per year, exhausting to the building). [326 IAC 8-3-2]
- (b) Equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (c) Cleaners and solvents characterized as having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 degrees F) and the use of which all cleaners and solvents combined does not exceed 145 gallons per 12 months. [326 IAC 8-3-2]
- (d) Cleaners and solvents characterized as having vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 degrees C (68 degrees F) and the use of which all cleaners and solvents combined does not exceed 145 gallons per 12 months. [326 IAC 8-3-2]

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

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

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

Pursuant to 326 IAC 8-3-2, 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 operating requirements;
- (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the brazing equipment, cutting torches, soldering equipment, welding equipment shall be limited as follows:

When the process weight rate is less than one hundred (100) pounds per hour, the allowable rate of emission is five hundred fifty-one thousandths (0.551) pound per hour.

SECTION E.1

FACILITY OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 5, constructed in 1950, exhausting to Stack #5, capacity: 1,980 kW (name plate), 20.3 million British thermal units heat input and 2,800 horsepower output.
- (b) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 6, constructed in 1957, exhausting to Stack #6, capacity: 2,500 kW (name plate), 25.2 million British thermal units heat input and 3,500 horsepower output.
- (c) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 10, constructed in 1971, exhausting to Stack #10, capacity: 2,070 kW (name plate), 21.0 million British thermal units heat input and 2,880 horsepower output.
- (d) One (1) two cycle, low sulfur diesel-fired compression ignition reciprocating generator, identified as Generator 11, constructed in 1971, exhausting to Stack #11, capacity: 2,070 kW (name plate), 21.0 million British thermal units heat input and 2,880 horsepower output.
- (e) One (1) four cycle dual fuel compression ignition reciprocating generator with optional operation as diesel-only unit, firing low sulfur diesel and natural gas, identified as Generator 14, constructed in 1994, exhausting to Stack #14, capacity: 67.6 million British thermal units per hour heat input and 7,920 horsepower output.

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

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

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR 63, Subpart A]

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to Generators 5, 6, 10, 11 and 14 except when otherwise specified in 40 CFR 63, Subpart ZZZZ.

E.1.2 Stationary Reciprocating Internal Combustion Engines NESHAP [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR 63 Subpart ZZZZ, the Permittee shall comply with the provisions of 40 CFR 63 Subpart ZZZZ, which are incorporated as 326 IAC 20-82 for Generators 5, 6, 10, 11 and 14, as specified as follows:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603(a)
- (6) 40 CFR 63.6604 (apply only to Generator 10 and 11)
- (7) 40 CFR 63.6605
- (8) 40 CFR 63.6612
- (9) 40 CFR 63.6615
- (10) 40 CFR 63.6620
- (11) 40 CFR 63.6625(a),(b),(g),(h)
- (12) 40 CFR 63.6630

- (13) 40 CFR 63.6635
- (14) 40 CFR 63.6640(a), (b), and (e)
- (15) 40 CFR 63.6645(a)(2),(g), and (h)
- (16) 40 CFR 63.6650 except (g)
- (17) 40 CFR 63.6655 except (c) and (f)
- (18) 40 CFR 63.6660
- (19) 40 CFR 63.6665
- (20) 40 CFR 63.6670
- (21) 40 CFR 63.6675
- (22) Table 2b
- (23) Table 2d (item 3)
- (24) Table 3 (item 4)
- (25) Table 4 (items 1 and 3)
- (26) Table 5 (items 1, 2, 3, 4, 5, and 6)
- (27) Table 6 (items 3, 10, and 11)
- (28) Table 7 (item 1)
- (29) Table 8

SECTION E.2

FACILITY OPERATION CONDITIONS

Emissions Unit Description:

- (f) One (1) four stroke, lean burn, natural gas-fired spark ignition reciprocating generator, identified as Generator 15, constructed in 2006, equipped with a catalytic unit, exhausting to Stack #15, capacity: 8,040 kW (name plate) and 72.3 million British thermal units per hour (72,319 cubic feet of natural gas per hour).

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

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

E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR 63, Subpart A]

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to Generators 15 except when otherwise specified in 40 CFR 63, Subpart ZZZZ.

E.2.2 Stationary Reciprocating Internal Combustion Engines NESHAP [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR 63 Subpart ZZZZ, the Permittee shall comply with the provisions of 40 CFR 63 Subpart ZZZZ, which are incorporated as 326 IAC 20-82 for Generators 15, as specified as follows:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6595(a)(1),(b),and (c)
- (5) 40 CFR 63.6603(a)
- (7) 40 CFR 63.6605
- (8) 40 CFR 63.6612
- (9) 40 CFR 63.6615
- (10) 40 CFR 63.6620
- (11) 40 CFR 63.6625(a),(b),(h)
- (12) 40 CFR 63.6630
- (13) 40 CFR 63.6635
- (14) 40 CFR 63.6640(a), (b), and (e)
- (15) 40 CFR 63.6645(a)(2),(g), and (h)
- (16) 40 CFR 63.6650
- (17) 40 CFR 63.6655
- (18) 40 CFR 63.6660
- (19) 40 CFR 63.6665
- (20) 40 CFR 63.6670
- (21) 40 CFR 63.6675
- (22) Table 2b
- (23) Table 2d (item 8)
- (24) Table 3 (item 4)
- (25) Table 4 (items 1 and 3)
- (26) Table 5 (items 1, 2, 3, 4, 5, and 6)
- (27) Table 6 (items 3, 10, and 11)
- (28) Table 7 (item 1)
- (29) Table 8

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Rensselaer Municipal Electric Utility
Source Address: 425 N. Van Rensselaer St, Rensselaer, Indiana 47978
Part 70 Permit No.: T073-30580-00020

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Rensselaer Municipal Electric Utility
Source Address: 425 N. Van Rensselaer St, Rensselaer, Indiana 47978
Part 70 Permit No.: T073-30580-00020

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

PART 70 Quarterly Report

Source Name: Rensselaer Municipal Electric Utility
Source Address: 425 N. Van Rensselaer St, Rensselaer, Indiana 47978
Part 70 Permit No.: T073-30580-00020
Facilities: Total - Generators 5, 6, 10, 11, 14 and 15
Parameter: Total combined fuel usage
Limit: Less than 192,000,000 cubic feet of natural gas equivalent per twelve (12) consecutive month period, with compliance determined at the end of each month and

Usage of one (1) gallon of diesel fuel shall be considered equal to using 231 cubic feet of natural gas.

YEAR: _____

Month	Natural Gas (CF)	Diesel (gallons)	Natural Gas Equivalent (CF)	Natural Gas Equivalent (CF)	Total Natural Gas Equivalent (CF)
	This Month	This Month	This Month	Previous 11 months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Rensselaer Municipal Electric Utility
Source Address: 425 N. Van Rensselaer St, Rensselaer, Indiana 47978
Part 70 Permit No.: T073-30580-00020

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

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document (ATSD) for a Significant Permit Modification and Part 70 Operating Permit

Source Description and Location

Source Name:	Rensselaer Municipal Electric Utility
Source Location:	425 N. Van Rensselaer St, Rensselaer, IN 47978
County:	Jasper
SIC Code:	4911
Operation Permit No.:	T073-30580-00020
Operation Permit Issuance Date:	November 15, 2011
Significant Permit Modification No.:	073-31850-00020
Permit Reviewer:	Anh Nguyen

The Office of Air Quality (OAQ) has reviewed Part 70 Operating Permit for a Significant Permit Modification, submitted by Rensselaer Municipal Electric Utility on May 10, 2012, relating to the operation of a stationary electric power generation source.

Public Notice Information

On September 25, 2012, the Office of Air Quality (OAQ) had a notice published in the Rensselaer Republican in Jasper County stating that Rensselaer Municipal Electric Utility has applied for a Significant Permit Modification of their Part 70 Operating Permit Significant Permit Modification 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.

No changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflects the permit that was on public notice. Changes that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result, ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Comments and IDEM's Responses

Upon further review, the OAQ has decided to make the following revisions to the permit

The changes listed below have been made to Part 70 Operating Permit No. T073-30580-00020 Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

- (1) IDEM would like to clarify the descriptive language of the Record Keeping Requirements in regards to Condition D.1.3 (b) of the permit. The clarification does not involve any significant changes to the permit conditions

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

D.1.7 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1 ~~and~~, D.1.2 (a), D.1.3, D.1.5, **and D.1.6** the Permittee shall maintain records in accordance with (1) through ~~(6)~~ **(4)** below.
 - (1) Calendar dates covered
 - (2) Actual natural gas usage, and diesel fuel usage per month.

- (3) If supplier certifications are used to demonstrate compliance with Condition D.1.3, fuel supplier certifications for sulfur content and the name of the fuel supplier; and
 - (4) ~~The sulfur content of the diesel fuel and each sample taken.~~ **To document the compliance status with condition D.1.3(b), the Permittee shall maintain records in accordance with 40CFR 72.7(d)(3)**
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.
- (2) Correct typographical errors in E Sections

SECTION E.1 FACILITY OPERATION CONDITIONS

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR 63, Subpart A]
The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in ~~326 IAC 20-82~~ **326 IAC 20-1-1**, apply to Generators 5, 6, 10, 11 and 14 except when otherwise specified in 40 CFR 63, Subpart ZZZZ.

SECTION E.2 FACILITY OPERATION CONDITIONS

E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants (NESHAP) [326 IAC 20-1] [40 CFR 63, Subpart A]
The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in ~~326 IAC 20-82~~ **326 IAC 20-1-1**, apply to Generators 15 except when otherwise specified in 40 CFR 63, Subpart ZZZZ.

Federal Rule Applicability

...

- (c) The diesel generators 5, 6, 10, 11 and 14 are subject the requirements of the 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (326 IAC 20-82), because they are considered existing stationary reciprocating internal combustion engines (RICE) (construction commenced before June 12, 2006) at an area source of hazardous air pollutants (HAP). The source has taken fuel usage limits to remain an area source for HAPs. Construction of generators 5, 6, 10, 11 and 14 commenced prior to 2006.

...

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603(a)
- (6) 40 CFR 63.6604 (apply only to Generator 10 and 11)
- (7)

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the souce except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

Note:

Unit 14 runs on natural gas but starts on diesel. Since the generator does not have spark plugs, a small amount of diesel (a 5% mixture) is used for combustion purposes when running on natural gas. Therefore generator 14 is a compression ignition reciprocating generator.

40 CFR 63.6604 applies only to Generator 10 and 11 because these generators are non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel.

IDEM Contact

Questions regarding this proposed permit can be directed to:

Anh Nguyen
Indiana Department Environmental Management
Office of Air Quality
100 North Senate Avenue
MC 61-53, Room 1003
Indianapolis, Indiana 46204-2251
Toll free (within Indiana): 1-800-451-6027 extension (3-5334)
Fax: (317)-232-6749 attn: Anh Nguyen
Or dial directly: (317) 233-5334
pnguyen@idem.in.gov

Please reference permit number T 073-31850-00020 in all correspondence.

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Part 70 Significant Permit
Modification**

Source Description and Location

Source Name:	Rensselaer Municipal Electric Utility
Source Location:	425 N. Van Rensselaer St, Rensselaer, IN 47978
County:	Jasper
SIC Code:	4911
Operation Permit No.:	T073-30580-00020
Operation Permit Issuance Date:	November 15, 2011
Significant Permit Modification No.:	073-31850-00020
Permit Reviewer:	Anh Nguyen

Existing Approvals

The source was issued Part 70 Operating Permit No. T073-30580-00020 on November 15, 2011. The source has not received any additional approvals. All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

County Attainment Status

The source is located in Jasper County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Unclassifiable or attainment effective April 5, 2005, for PM_{2.5}.

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Jasper County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Jasper County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant

level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

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

Fugitive Emissions

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

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (ton/yr)
PM	19.5
PM ₁₀	19.3
PM _{2.5}	3.3
SO ₂	33.7
VOC	35.4
CO	196.6
NO _x	244.8
GHGs as CO ₂ e	13,086.55
HAPs	
Formaldehyde	9.9
Total	14.1

- (a) This existing stationary source is not major for PSD because the emissions of each regulated pollutant, excluding GHGs, are less than two hundred fifty (<250) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO₂ equivalent emissions (CO₂e) per year, and it is not in one of the twenty-eight (28) listed source categories.
- (b) These emissions are based upon Part 70 Permit T073-30580-00020 issued on November 15, 2011
- (c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Rensselaer Municipal Electric Utility on May 10, 2012 relating to clarifications of the existing permit language specific in Section D, and relaxing enforceable requirements in the Part 70 permit and other conditions in the previous permit that were inadvertently left out in the current renewal

permit.

Enforcement Issues

There are no pending enforcement actions.

Permit Level Determination – Part 70

There is no increase in the potential to emit of any regulated pollutants as the source is not adding any new emission unit.

Pursuant to 326 IAC 2-7-12(d)(1), this modification is considered as a significant Permit modification because modifying the existing part 70 Operating Permit conditions reflect the significant changes to existing conditions, and requires relaxing requirements in the Part 70 permit.

Federal Rule Applicability Determination

There are no new federal rules applicable to the source due to this modification.

State Rule Applicability Determination

There are no new state rules applicable to the source due to this modification.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T073-30580-00020. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Change 1: Changes made to Section A, D and E are as follow:

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

(a) - (d)

- (e) One (1) four cycle **dual fuel compression ignition reciprocating generator with optional operation as diesel-only unit, firing**, low sulfur diesel and natural gas-fired ~~compression ignition reciprocating generator~~, identified as Generator 14, constructed in 1994, exhausting to Stack #14, capacity: ~~5,000 kW (name plate), 50.8~~ **67.6 million** British thermal units per hour heat input and 7,920 horsepower output.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) - (d) ...

- (e) One (1) four cycle **dual fuel compression ignition reciprocating generator with optional operation as diesel-only unit, firing**, low sulfur diesel and natural gas-fired ~~compression ignition reciprocating generator~~, identified as Generator 14, constructed in 1994, exhausting to Stack #14, capacity: ~~5,000 kW (name plate), 50.8~~ **67.6 million** British thermal units per hour heat input and 7,920 horsepower output.

(f) ...

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

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

D.1.1 PSD & VOC Minor Limits [326 IAC 2-2] [326 IAC 8-1-6]

Pursuant to CP 073-2461-00020, issued on July 22, 1992, and SPM 073-23227-00020, issued on September 29, 2006, the following limits are applicable to the six (6) generators, identified as Generators 5, 6, 10, 11, 14 and 15:

- ~~(a) The combined amount of diesel fuel equivalent combusted in Generators 5, 6, 10, 11 and 14 shall be limited to less than 830,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~
- ~~(b) The following limits shall apply to the six (6) generators, identified as Generators 5, 6, 10, 11, 14, and 15:
 - ~~(1) The emission rate of NO_x for diesel fuel shall not exceed 0.578 pound per gallon;~~
 - ~~(2) The emission rate of NO_x for Generator 14, when operating on natural gas, shall not exceed 0.002 pound per cubic feet of natural gas;~~
 - ~~(3) The emission rate of NO_x for Generator 15, when operating on natural gas, shall not exceed 0.0025 pound per cubic feet of natural gas;~~
 - ~~(4) The emission rate of SO₂ for diesel fuel shall not exceed 0.07 pound per gallon;~~
 - ~~(5) One gallon of diesel fuel is equivalent to 0.14 MMBtu.~~
 - ~~(6) The emission rate of SO₂ for natural gas shall not exceed 0.0000006 pound per cubic feet of natural gas;~~
 - ~~(7) The emission rate of CO for diesel fuel shall not exceed 0.106 pound per gallon;~~
 - ~~(8) The emission rate of CO for natural gas shall not exceed 0.002 pound per cubic feet of natural gas.~~
 - ~~(9) The emission rate of CO₂ for diesel fuel shall not exceed 23.4 pound per gallon.~~
 - ~~(10) The emission rate of CO₂ for natural gas shall not exceed 0.165 pound per cubic feet of natural gas.~~
 - ~~(11) One million cubic feet of natural gas is equivalent to 1,000 million Btu/hr.~~~~
- ~~(c) Usage of 231 cubic feet of natural gas shall be considered equal to using one (1) gallon of diesel fuel.~~
- (a) The combined usage of natural gas shall be limited to less than 192,000,000 cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month.**
 - (1) Usage of one (1) gallon of diesel fuel shall be considered equal to using 231 cubic feet of natural gas. Monthly usage of diesel shall be converted to equivalent natural gas usage and added to actual natural gas usage for fuel usage reporting.**
 - (2) The emission rate of NO_x shall not exceed 0.578 pound per gallon of diesel;**
 - (3) The emission rate of NO_x shall not exceed 0.0025 pound per cubic foot of natural gas;**

- (4) The emission rate of CO shall not exceed 0.25 pound per gallon;
- (5) CO emission rate from natural gas shall not exceed .002 pound per cubic foot

Compliance with the above limits and the potential to emit of the other emission units at this source will limit the source to less than 250 tons per twelve (12) consecutive month period of NO_x, SO₂ and CO and less than one hundred thousand (<100,000) tons of CO₂ equivalent emissions (CO₂e) and shall render the requirements of 326 IAC 2-2, PSD, not applicable to the entire source.

- (b) The emission rate of VOC shall not exceed 0.000255 pound per cubic foot of natural gas

Compliance with the above limits and the potential to emit of the other emission units at this source will limit the source VOC emissions from Generators 14 and 15 each to less than 25 tons per twelve consecutive month period and render the requirements of 326 IAC 8-1-6 not applicable to Generators 14 and 15.

~~D.1.2 Volatile Organic Compounds [326 IAC 8-1-6]~~

~~Pursuant to SPM 073-23227-00020, issued on September 29, 2006, the following limits shall apply to Generators 14 and 15:~~

- ~~(a) The usage of natural gas in Generators 14 and 15 shall be limited to less than 830,000 gallons diesel equivalent per twelve (12) consecutive month period, each, with compliance determined at the end of each month.~~

- ~~(b) The emission rate of VOC shall not exceed 0.02 pound per gallon of diesel equivalent.~~

- ~~(c) Usage of one (1) gallon of diesel fuel at Generator 14 shall be considered equal to using 78.5 cubic feet of natural gas.~~

~~Compliance with the above limits shall limit VOC emissions for Generators 14 and 15 each to less than 25 tons per twelve consecutive month period and render the requirements of 326 IAC 8-1-6 not applicable to Generators 14 and 15.~~

D.1.2 Hazardous Air Pollutants (HAPs) [326 IAC 2-4.1-1]

The following limits shall apply when combusting natural gas:

- (a) The Formaldehyde emissions shall not exceed ~~5.28E-5~~ **8.3E-5** lbs/cf of natural gas.

- ~~(b) The total HAPs emissions shall not exceed 7.21E-5 lbs/cf of natural gas.~~

In combination with the fuel use limitations in Condition D.1.1, this shall limit the potential to emit each individual HAP from this source to less than ten (10) tons per year and total HAP emissions to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.

D.1.3 Sulfur Dioxide [326 IAC 7-1.1] [40 CFR 72.7]

- (a) Pursuant to 326 IAC 7-1.1-2, the SO₂ emissions from each of the generators operating on diesel fuel shall be limited to five-tenths (0.5) pound per MMBtu for distillate oil combustion.

- (b) Pursuant to the Acid Rain Program - New Units Exemption, 40 CFR 72.7, the Permittee shall comply with the following for Generators 14 and 15 in order to comply with the Acid Rain Program exemption:

- (1) **The nameplate capacity of the source shall not exceed twenty-five (25) megawatts, total;**
- (2) **The generators shall not combust coal or a coal-derived fuel; and**
- (3) **The annual average weight percentage sulfur content of the fuels used at the two (2) generators, identified as Generators 14 and 15, shall not exceed 0.05% (as determined under 40 CFR 72.7(d)). This will also ensure compliance with 326 IAC 7-1.1-2 for these two (2) generators.**
- (4) **For any period for which a unit is exempt under this 40 CFR 72.7, the unit is not an affected unit under the Acid Rain Program and parts 70 and 71 of this chapter and is not eligible to be an opt-in source under part 74 of this chapter. As an unaffected unit, the unit shall continue to be subject to any other applicable requirements under parts 70 and 71 of this chapter.**
- (5) **On the earliest of the following dates, a unit exempt under 40 CFR 72.7(b), (c), or (e) shall lose its exemption and become an affected unit under the Acid Rain Program and 40 CFR Parts 70 and 71:**
 - (A) **The date on which the unit first serves one or more generators with total nameplate capacity in excess of 25 MWe;**
 - (B) **The date on which the unit burns any coal or coal-derived fuel except for coal-derived gaseous fuel with a total sulfur content no greater than natural gas; or**
 - (C) **January 1 of the year following the year in which the annual average sulfur content for gaseous fuel burned at the unit exceeds 0.05 percent by weight (as determined in D.1.6 of this section) or for nongaseous fuel burned at the unit exceeds 0.05 percent by weight (as determined in D.1.6 of this section).**
 - (D) **Notwithstanding 40 CFR 72.30(b) and (c), the designated representative for a unit that loses its exemption under this section shall submit a complete Acid Rain permit application 60 days after the first date on which the unit is no longer exempt.**
 - (E) **For the purpose of applying monitoring requirements under 40 CFR 75, a unit that loses its exemption under this section shall be treated as a new unit that commenced commercial operation on the first date on which the unit is no longer exempt.**

...

Compliance Determination Requirements

D.1.5 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

...

D.1.6 Acid Rain Emission Sulfur Content [40 CFR 72.7]

...

D.1.7 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1, **D.1.2(a)**, D.1.3, and ~~D.1.4~~ **D.1.5**, the Permittee shall maintain records in accordance with (1) through (6) below.

- (1) Calendar dates covered

- (2) Actual diesel fuel, **and** natural gas ~~and diesel fuel equivalent~~ usage per month.

...

D.1.8 Reporting Requirements

Quarterly summaries of the information to document the compliance status with the fuel usage limitations in Conditions D.1.1, ~~D.1.2 and D.1.3~~ shall be submitted not later than (30) days after the end of the quarter being reported. Section C - General Reporting Requirements, contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION E.1 FACILITY OPERATION CONDITIONS

Emissions Unit Description:

(a) - (d)

- ((e) One (1) four cycle **dual fuel compression ignition reciprocating generator with optional operation as diesel-only unit, firing**, low sulfur diesel and natural gas-fired ~~compression ignition reciprocating generator~~, identified as Generator 14, constructed in 1994, exhausting to Stack #14, capacity: ~~5,000 kW (name plate), 50.8~~ **67.6 million** British thermal units per hour heat input and 7,920 horsepower output.

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

E.1.2 Stationary Reciprocating Internal Combustion Engines NESHAP [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ]

Pursuant to 40 CFR 63 Subpart ZZZZ, the Permittee shall comply with the provisions of 40 CFR 63 Subpart ZZZZ, which are incorporated as 326 IAC 20-82 for Generators 5, 6, 10, 11 and 14, as specified as follows:

- (1) - (4) ...
(5) 40 CFR 63.6603**(a)**
(6) 40 CFR 63.6604 (apply only to Generators 10 and 11)
(7) - (10) ...
(11) 40 CFR 63.6625(a),(b),(g),(h) & ~~(k)~~
(12) - (15) ...
(16) 40 CFR 63.6650 **except (g)**
(17) 40 CFR 63.6655 **except (c) and (f)**
(18) - (29) ...

SECTION E.2 FACILITY OPERATION CONDITIONS

E.2.2 Stationary Reciprocating Internal Combustion Engines NESHAP [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ]

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

- (1) - (4) ...
(5) 40 CFR 63.6603**(a)**
(7) - (22) ...
(23) Table 2d (item ~~3~~ **8**)
(24) Table 3 (item 4)
(25)-(29) ...

~~E.1.1~~ E.2.1 ...

~~E.1.2~~ E.2.2...

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

PART 70 Quarterly Report

Source Name: Rensselaer Municipal Electric Utility
 Source Address: 425 N. Van Rensselaer St, Rensselaer, Indiana 47978
 Part 70 Permit No.: T073-30580-00020
 Facilities: Total - Generators 5, 6, 10, 11, 14 and 15
 Parameter: Total **combined** fuel usage
 Limit: ~~Less than 830,000 gallons of diesel fuel per twelve (12) consecutive month period with compliance determined at the end of each month, and~~

~~Usage of 231 cubic feet of natural gas shall be considered equal to using one (1) gallon of diesel fuel. Therefore, for each 231 cubic feet of natural gas used, the allowable diesel fuel limit shall be decreased by one (1) gallon.~~

Less than 192,000,000 cubic feet of natural gas equivalent per twelve (12) consecutive month period, with compliance determined at the end of each month and

Usage of one (1) gallon of diesel fuel shall be considered equal to using 231 cubic feet of natural gas.

...

Month	Natural Gas (CF)	Diesel (gallons)	Natural Gas Equivalent (CF)	Natural Gas Equivalent (CF)	Total Natural Gas Equivalent (CF)
	This Month	This Month	This Month	Previous 11 months	12 Month Total

Conclusion and Recommendation

The operation of this permit shall be subject to the conditions of the attached proposed Part 70 No. 073-31850-00020 Significant Permit Modification. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Anh Nguyen at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (233-5334) or toll free at 1-800-451-6027 extension (3-5334)
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Emissions Calculations

Totals

Company Name: Rensselaer Municipal Electric Utility
 Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
 Approval No.: T 073-31850-00020
 Reviewer: Anh Nguyen
 Application Date: May 10, 2012

Unrestricted Potential Emissions (tons/yr)

* Calculations apply only to the D.1 conditions (mainly generators 14, 15)

	PM	PM10	PM2.5	SO2	NOx	VOC	CO	CO2e	Form-aldehyde	Total HAPs
Generator 5	8.58	8.58	8.58	49.6	294	7.87	67.5	6.15E+04	0.03	0.58
Generator 6	6.13	6.13	6.13	56.7	406	10.7	58.3			
Generator 10	3.78	3.78	3.78	46.7	334	11.4	32.8			
Generator 11	3.78	3.78	3.78	46.7	334	11.4	32.8			
Generator 14 diesel only	29.61	29.61	29.61	149.52	947.48	26.65	251.67	4.90E+04	0.02	0.47
Generator 15	0.024	3.16	0.19	0.186	1292	83.9	285	4.32E+04	16.72	22.83
Total Unlimited Significant*	51.9	55.1	52.1	349.4	3608.7	151.9	728.0	1.54E+05	16.8	23.9

Insignificant Activities	PM	PM10		SO2	NOx	VOC	CO		Form-aldehyde	Total HAPs
Storage Tanks	0.00	0.00		0.00	0.00	2.74	0.00		0.90	2.28
Degreasing	0.00	0.00		0.00	0.00	5.48	0.00		0.00	0.00
Welding	9.13	9.13		0.00	0.00	0.00	0.00		0.00	1.00
Insignificant Engines	4.56	4.56		4.56	4.56	2.74	4.56		1.00	1.00
Unpaved roads	0.159	0.030		0.00	0.00	0.00	0.00		0.00	0.00
Total Insignificant	13.8	13.7		4.56	4.56	11.0	4.56		1.90	4.28

Limited Potential to Emit (tons/yr)

	PM	PM10	PM2.5	SO2	NOx	VOC	CO	CO2e	Form-aldehyde	Total HAPs
Generator 5	5.69	5.62	3.26	29.09	240.21	24.480	192.000	1.31E+04	7.97	3.00
Generator 6										
Generator 10										
Generator 11										
Generator 14 diesel only										
Generator 15 NG										
As Limited Total Significant**	5.7	5.6	3.3	29.1	240.2	24.5	192.0	1.31E+04	8.0	3.0
Total Insignificant	13.8	13.7		4.6	4.6	11.0	4.6	0.00E+00	1.9	4.3
Overall Total	19.5	19.3	3.3	33.7	244.8	35.4	196.6	13,086.55	9.9	7.3

Methodology

* Total Unlimited Significant = (Sum of Generators 5, 6, 10, 11, and 15) + (Worst Case Mode for Generator 14)

** As Limited Total Significant = Maximum As-Limited Value from Generators 5-11, Generator 14, and Generator 15 and Based on 192 million cubic feet of natural gas

Emissions Calculations
Natural Gas Combustion Only
Generator 15: 4-Stoke Lean Burn RICE
Unlimited Potential Emissions

Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Approval No.: T 073-31850-00020
Reviewer: Anh Nguyen
Application Date: May 10, 2012

72.30 MMBtu/hr

Emission Factor in lb/MMBtu	Pollutant					
	PM*	PM10*	SO2	NOx**	VOC	CO
	7.71E-05	9.99E-03	5.88E-04	4.08E+00	2.65E-01	9.00E-01

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
Generator 15	72.30	633.348	0.024	3.163	0.186	1292.030	83.919	285.007

Methodology

HAP	Emission Factor Four stroke lean burn (lb/MMBtu)	Potential to Emit (tons/yr)
1,1,2,2-Tetrachloroethane	4.00E-05	0.013
1,1,2-Trichloroethane	3.18E-05	0.010
1,3-Butadiene	2.67E-04	0.085
1,3-Dichloropropene	2.64E-05	0.008
2,2,4-Trimethylpentane	2.50E-04	0.079
Acetaldehyde	8.36E-03	2.647
Acrolein	5.14E-03	1.628
Benzene	4.40E-04	0.139
Biphenyl	2.12E-04	0.067
Carbon Tetrachloride	3.67E-05	0.012
Chlorobenzene	3.04E-05	0.010
Chloroethane	1.87E-06	0.001
Chloroform	2.85E-05	0.009
Ethylbenzene	3.97E-05	0.013
Ethylene Dibromide	4.43E-05	0.014
Formaldehyde	5.28E-02	16.720
Methanol	2.50E-03	0.792
Methylene Chloride	2.00E-05	0.006
n-Hexane	1.11E-03	0.352
Naphthalene	7.44E-05	0.024
Phenol	2.40E-05	0.008
Styrene	2.36E-05	0.007
Toluene	4.08E-04	0.129
Vinyl Chloride	1.49E-05	0.005
Xylene	1.84E-04	0.058
Total HAPs:	0.072	22.8

Green House Gas Emissions (GHG)

Emission Factor in lb/MMBtu	Pollutant		
	CO2	CH4	N2O
	1.10E+02	1.25E+00	2.20E-04
Potential Emission in tons/yr			
Generator 15	3.48E+04	3.96E+02	6.97E-02

	Unit 15
Summed Potential in tons/yr	3.52E+04
CO2e Total in tons/yr	43,168

Methodology

*PM emission factor is filterable PM only. PM-10 emission factor is filterable and condensable PM-10 combined.
 ** Vendor spec NOx was 1.58E-01 lb/MMBtu but stack testing demonstrated emissions higher than that, 1.86E-1 lb/MMBtu. Therefore, the AP-42 NOx emission factor for 90 - 105% was used for the unrestricted PTE NOx calculation.
 PM, PM10, SO2, NOx, CO2, CH4 and HAPS are from AP-42 Chapter 3.2 revised July 2000. VOC, and CO are uncontrolled EF based on vendor specs for the unit; prior permit application for Unit 15 indicates anticipated 60% VOC control and 85% CO control by the catalytic unit.
 N2O Emission Factor from 40 CFR 98 Subpart C Table C-2; 1E-4 kg/MMBtu x 2.2 lb/kg = 2.2E-4 lb/MMBtu.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP

**Emissions Calculations
Natural Gas Combustion Only
Generator 15: 4-Stoke Lean Burn RICE
Limited Potential to Emit**

Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Approval No.: T 073-31850-00020
Reviewer: Anh Nguyen
Application Date: May 10, 2012

Limited Million Cubic Feet per year

Emission Factor in lb/MMBtu	Pollutant					
	PM*	PM10*	SO2	NOx**	VOC	CO
	7.71E-05	9.99E-03	5.88E-04	4.08E+00	2.65E-01	9.00E-01

AP-42 or Vendor Spec Uncontrolled Emission Factor in lb/cf Emission Factor as currently limited, lb/cf	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	7.71E-08	9.99E-06	5.88E-07	2.50E-03	2.55E-04	2.00E-03

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput Cubic Feet/yr	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
with fuel limit and limited EFI	72.30	1.920E+08	0.01	0.96	0.06	240.00	24.48	192.00

HAP	Emission Factor Four stroke lean burn (lb/MMBtu)	Emission Factor Four stroke lean burn (lb/cf)	Potential to Emit (tons/yr)
1,1,2,2-Tetrachloroethane	4.00E-05	4.00E-08	3.84E-03
1,1,2-Trichloroethane	3.18E-05	3.18E-08	3.05E-03
1,3-Butadiene	2.67E-04	2.67E-07	2.56E-02
1,3-Dichloropropene	2.64E-05	2.64E-08	2.53E-03
2,2,4-Trimethylpentane	2.50E-04	2.50E-07	2.40E-02
Acetaldehyde	8.36E-03	8.36E-06	8.03E-01
Acrolein	5.14E-03	5.14E-06	4.93E-01
Benzene	4.40E-04	4.40E-07	4.22E-02
Biphenyl	2.12E-04	2.12E-07	2.04E-02
Carbon Tetrachloride	3.67E-05	3.67E-08	3.52E-03
Chlorobenzene	3.04E-05	3.04E-08	2.92E-03
Chloroethane	1.87E-06	1.87E-09	1.80E-04
Chloroform	2.85E-05	2.85E-08	2.74E-03
Ethylbenzene	3.97E-05	3.97E-08	3.81E-03
Ethylene Dibromide	4.43E-05	4.43E-08	4.25E-03
Formaldehyde	5.28E-02	5.28E-05	5.07E+00
Methanol	2.50E-03	2.50E-06	2.40E-01
Methylene Chloride	2.00E-05	2.00E-08	1.92E-03
n-Hexane	1.11E-03	1.11E-06	1.07E-01
Naphthalene	7.44E-05	7.44E-08	7.14E-03
Phenol	2.40E-05	2.40E-08	2.30E-03
Styrene	2.36E-05	2.36E-08	2.27E-03
Toluene	4.08E-04	4.08E-07	3.92E-02
Vinyl Chloride	1.49E-05	1.49E-08	1.43E-03
Xylene	1.84E-04	1.84E-07	1.77E-02
Total HAPs:	0.072	7.21E-05	3.00
Removed			

Formaldehyde shall not exceed
0.000083 lb/cf * = 7.97 tons/yr

Green House Gas Emissions (GHG)	Pollutant			
	CO2	CH4	N2O	CO2e
Emission Factor in lb/MMBtu	1.10E+02	1.25E+00	2.20E-04	
Emission Factor in lb/cubic foot	1.10E-01	1.25E-03	2.20E-07	
Potential Emission in tons/yr	1.06E+04	1.20E+02	2.11E-02	13,087

Methodology

*PM emission factor is filterable PM only. PM-10 emission factor is filterable and condensable PM-10 combined.
** Vendor spec NOx was 1.58E-01 lb/MMBtu but stack testing demonstrated emissions higher than that, 1.86E-1 lb/MMBtu. The AP-42 NOx emission factor for 90 - 105% load is 4.08E00 which is unreasonably high in light of the demonstrated NOx emission rate. Therefore, the limited rate was used for the Potential Emissions NOx calculation.
PM, PM10, SO2, CO2, CH4 and HAPS are from AP-42 Chapter 3.2 revised July 2000. VOC and CO are uncontrolled EF based on vendor specs for the unit.
N2O Emission Factor from 40 CFR 98 Subpart C Table C-2; 1E-4 kg/MMBtu x 2.2 lb/kg = 2.2E-4 lb/MMBtu.
Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Emissions Calculations
Unit 14 - Diesel Mode - Unlimited Operation
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)

Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Plt ID: 073-00020
Reviewer: Anh Nguyen
Date: July 2, 2012

Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity (MMBtu/hr)	67.6	58.92 MMBtu/hr actual during diesel fuel stack test
Maximum Hours Operated per Year	8760	
Potential Annual Heat Input (MMBtu/yr)	592,176	
Sulfur Content (S) of Fuel (% by weight)	0.500	Note: Acid Rain New Unit Exemption limits to 0.05 wt % Average

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx**	VOC	CO
Emission Factor in lb/MMBtu	0.10	0.10	0.10	0.505 (1.01S)	3.2 **see below	0.09	0.85
Potential Emission in tons/yr	29.61	29.61	29.61	149.52	947.48	26.65	251.67

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/MMBtu	7.76E-04	2.81E-04	1.93E-04	7.89E-05	2.52E-05	7.88E-06	2.12E-04
Potential Emission in tons/yr	2.30E-01	8.32E-02	5.71E-02	2.34E-02	7.46E-03	2.33E-03	6.28E-02

Potential Emission of Total HAPs (tons/yr)	4.66E-01
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Emissions Calculations
Unit 14 - Diesel Mode - Unlimited Operation
Green House Gas Emissions (GHG)

Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Plt ID: 073-00020
Reviewer: Anh Nguyen
Date: July 2, 2012

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu	1.65E+02	8.10E-03	1.32E-03
Potential Emission in tons/yr	4.89E+04	2.40E+00	3.91E-01

Summed Potential Emissions in tons/yr	4.89E+04
CO2e Total in tons/yr	49,026

Methodology

*Actual Heat Input Capacity as demonstrated by 1994 stack test:

61,109 ft³/hr natural gas x 1050 Btu/ft³ x 1MMBtu/10E6 Btu = 64.164 MMBtu/hr from natural gas

25 gallons/hr diesel x 137,000 Btu/gal x 1 MMBtu/10E6 Btu = 3.425 MMBtu/hr from diesel

64.164 MMBtu/hr from gas + 3.425 MMBtu/hr from diesel = 67.589 MMBtu/hr total heat input during dual fuel stack test

* The PM factor in AP-42 Table 3.4-1 is higher than the total PM factor provided in Table 3.4-2 and is higher rated; therefore, the higher value was used for this spreadsheet. Because no PM10 or PM2.5 factors are given in Table 3.4-1, the PM10 and PM2.5 emissions were assumed to be equal to PM.

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4, except
 N2O Emission Factor from 40 CFR 98 Subpart C Table C-2; 6E-4 kg/MMBtu x 2.2 = 1.32E-3 lb/MMBtu.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP

Emissions Calculations
Unit 14 - Diesel Mode - As Limited
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (>600 HP)
Maximum Input Rate (>4.2 MMBtu/hr)

Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Pit ID: 073-00020
Reviewer: Anh Nguyen
Date: July 6, 2012

Emissions calculated based on heat input capacity (MMBtu/hr)

Limited natural gas (mmCF/yr) = 192
 Heat Input Capacity (MMBtu/hr) 67.6 58.92 MMBtu/hr actual during diesel fuel stack test
 Maximum Hours Operated per Year 8760
 Limited Gallons per year 831,169
 Limited Heat Input (MMBtu/yr) 113,895 = (Limited gal/yr) x (7.1 lb/gal) x (19,300 Btu/lb) x (1 MMBtu/10E6 Btu)
 Sulfur Content (S) of Fuel (% by weight) 0.500 Note: Acid Rain New Unit Exemption limits to 0.05 wt % Average
 1 gallon of diesel fuel = 231 cf of natural gas

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx**	VOC	CO
Emission Factor in lb/MMBtu	0.10	0.0573	0.0573	0.505 (1.01S)	3.2 **see below	0.09	0.85
Emission Factor in lb/gal***	0.014	0.008	0.008				x
Permit Synth. Minor Limit in lb/gal				0.070	0.578	0.020	0.250

x Proposed. Synth. Minor Limit, lb/gal for CO

AS LIMITED PTE, tons/year:	5.69	3.26	3.26	29.09	240.21	8.31	103.90

Hazardous Air Pollutants (HAPs)

	Pollutant						
	Benzene	Toluene	Xylene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/MMBtu	7.76E-04	2.81E-04	1.93E-04	7.89E-05	2.52E-05	7.88E-06	2.12E-04
As Limited PTE in tons/yr	4.42E-02	1.60E-02	1.10E-02	4.49E-03	1.44E-03	4.49E-04	1.21E-02

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

Potential Emission of Total HAPs (tons/yr)	8.96E-02
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Emissions Calculations
Unit 14 - Diesel Mode - As Limited
Large Reciprocating Internal Combustion Engines - Diesel Fuel
Green House Gas Emissions (GHG)

Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Plt ID: 073-00020
Reviewer: Anh Nguyen
Date: July 6, 2012

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu	1.65E+02	8.10E-03	1.32E-03
Potential Emission in tons/yr	9.40E+03	4.61E-01	7.53E-02

Summed Potential Emissions in tons/yr	9.40E+03
CO2e Total in tons/yr	9,429

Methodology

*Actual Heat Input Capacity as demonstrated by 1994 stack test:

61,109 ft³/hr natural gas x 1050 Btu/ft³ x 1MMBtu/10E6 Btu = 64.164 MMBtu/hr from natural gas
 25 gallons/hr diesel x 137,000 Btu/gal x 1 MMBtu/10E6 Btu = 3.425 MMBtu/hr from diesel
 64.164 MMBtu/hr from gas + 3.425 MMBtu/hr from diesel = 67.589 MMBtu/hr total heat input during dual fuel stack test

*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included. The PM10 emission factor is filterable and condensable PM10 combined. The PM2.5 emissions were assumed to be equal to PM10.

**NOx emissions: uncontrolled = 3.2 lb/MMBtu, controlled with ignition timing retard = 1.9 lb/MMBtu

*** Theoretical lb/gal = (Emission Factor in lb/MMBtu) * (1 MMBtu/1,000,000 Btu) * (19,300 Btu/lb) * (7.1 lb/1 gal)

For NOx, theoretical lb/gal = (3.2 lb/MMBtu) (1 MMBtu/1,000,000 Btu) * (19,300 Btu/lb * (7.1 lb/1 gal)) = 0.438496 lb NOx/gallon

Stack test result: (175.6 lbs/hr NOx)/(430 gal/hr fuel used) = 0.40837 lbs NOx/gallon

Note: Original 17725 spreadsheet showed 363 gal/hr fuel usage, but 1995 stack test reported 430 gallons/hr used.

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1, 3.4-2, 3.4-3, and 3.4-4, except
 N2O Emission Factor from 40 CFR 98 Subpart C Table C-2; 6E-4 kg/MMBtu x 2.2 = 1.32E-3 lb/MMBtu.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O

Stack test firing diesel only: Average 430.33 gallons per hour with 175.6 lb/hr NOx emissions.

**Emissions Calculations
Large Stationary Diesel Engines (>600 HP)
Generators 5, 6, 10, & 11
Unrestricted Potential Emissions**

**Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Approval No.: T 073-31850-00020
Reviewer: Anh Nguyen
Application Date: May 10, 2012**

Total Output Horsepower Rating (hp)	12060.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	105,645,600
Sulfur Content (S) of Fuel (% by weight)	0.500

Note: Acid Rain New Unit Exemption limits (S) to 0.05 wt % Average

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr for Generator 5	0.0007	0.0007	0.0040	0.024	0.00064	0.00550
Emission Factor in lb/hp-hr for Generator 6	0.0004	0.0004	0.0037	0.027	0.00070	0.00380
Emission Factor in lb/hp-hr for Generator 10	0.0003	0.0003	0.0037	0.027	0.00090	0.00260
Emission Factor in lb/hp-hr for Generator 11	0.0003	0.0003	0.0037	0.027	0.00090	0.00260

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission factors converted to lb/gal						
Emission Factor in lb/gal for Generator 5	0.014	0.014	0.078	0.463	0.012	0.106
Emission Factor in lb/gal for Generator 6	0.008	0.008	0.072	0.515	0.014	0.074
Emission Factor in lb/gal for Generator 10	0.006	0.006	0.071	0.509	0.017	0.050
Emission Factor in lb/gal for Generator 11	0.006	0.006	0.071	0.509	0.017	0.050

Equipment	Output Rating Horsepower	Weight % Sulfur	Potential Emission in tons/yr					
			PM	PM10	SO2	NOx	VOC	CO
Generator 5	2800.00	0.5	8.585	8.585	49.608	294.336	7.868	67.452
Generator 6	3500.00	0.5	6.132	6.132	56.721	406.245	10.731	58.254
Generator 10	2880.00	0.5	3.784	3.784	46.673	334.282	11.353	32.797
Generator 11	2880.00	0.5	3.784	3.784	46.673	334.282	11.353	32.797
Total	12060.0		22.3	22.3	200	1369	41.3	191

Equipment	Fuel Usage Capacity (gallons/hr)
Generator 5 (20.3 mmBtu/hr)	145.00
Generator 6 (25.2 mmBtu/hr)	180.00
Generator 10 (21.0 mmBtu/hr)	150.00
Generator 11 (21.0 mmBtu/hr)	150.00
Total	625

1 gallon = 0.140 mmBtu								Page 9 of 10
		Company Name:	Rensselaer Municipal Electric Utility					
		Address City IN Zip:	425 N. Van Rensselaer Street, Rensselaer, IN 47978					
		Approval No.:	T 073-31850-00020					
		Reviewer:	Anh Nguyen					
		Application Date:	May 10, 2012					

HAP	Emission Factor Diesel Engines (lb/MMBtu)	Emission Factor Diesel Engines (lb/hp-hr)	Potential to Emit (tons/yr)
Benzene	7.76E-04	5.43E-06	0.287
Toluene	2.81E-04	1.97E-06	0.104
Xylenes	1.93E-04	1.35E-06	0.071
Formaldehyde	7.89E-05	5.52E-07	0.029
Acetaldehyde	2.52E-05	1.76E-07	0.009
Acrolein	7.88E-06	5.52E-08	0.003
Total PAH	2.12E-04	1.48E-06	0.078
Total HAPs:	1.57E-03	1.10E-05	0.58

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.16E+00	6.35E-05	9.30E-06
Potential Emission in tons/yr			
Generator 5	1.42E+04	7.78E-01	1.14E-01
Generator 6	1.78E+04	9.73E-01	1.43E-01
Generator 10	1.46E+04	8.00E-01	1.17E-01
Generator 11	1.46E+04	8.00E-01	1.17E-01
Total	6.13E+04	3.35E+00	4.91E-01

Summed Potential Emissions in tons/yr	6.13E+04
CO2e Total in tons/yr	61,497

Methodology

Potential Throughput (hp-hr/yr) = hp * 8760 hr/yr

Emission factors (lbs/gal) = Emission factors lb/hp-hr x Output rating (horsepower) /fuel usage capacity (gal)

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lbs/ton)

HAP emission factors (lbs/horsepower-hr) = (Emission factors lb/MMBtu x 0.007 MMBtu/hp-hr) x Output rating (horsepower) x (8760 hr/yr) / (2000 lbs/ton)

Criteria Polltant Emission Factors for Generator No. 5 are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2

Criteria Pollutant Emission Factors for Generators 6, 10, 11, and 14 were provided by the manufacturer and approved during the review for the initial Title V permit, T 073-7642-00020.

HAP, CO2, and CH4 Emission factors are from AP-42 (Supplement B 10/96) Tables 3.4-1 , 3.4-3, and 3.4-4.

N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Emissions Calculations
Large Stationary Diesel Engines (>600 HP)
Generators 5, 6, 10, & 11
Limited Potential to Emit**

**Company Name: Rensselaer Municipal Electric Utility
Address City IN Zip: 425 N. Van Rensselaer Street, Rensselaer, IN 47978
Plt ID: 073-00020
Reviewer: Anh Nguyen
Date: #####**

Limited Natural gas (mmCF/yr)	192
Limited Gallons per year	831,169
Limited Heat Input (MMBtu/yr)*	113,895

1 gallon of diesel fuel = 231 cf of natural gas

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Proposed. Synth. Minor Limit in lb/gal	0.014	0.014	0.070	0.578	0.020	0.250

	Fuel Usage (gals/yr)	Weight % Sulfur	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
Proposed AS LIMITED PTE in tons/yr	830000	0.5	5.62	5.62	29.1	240.2	8.3	103.9

	Diesel Emission factor (lb/gal)	Natural Gas Emission Factor (lb/cf)	cf of natural gas equivalent to 1 gal of diesel
PM	0.000	7.71E-08	0
PM10	0.000	9.99E-06	0
SO2	0.000	5.88E-07	0
NOx	0.578	2.50E-03	231
VOC	0.000	2.55E-04	0.0
CO	0.000	2.00E-03	0.0

HAP	Emission Factor Diesel Engines (lb/MMBtu)	Emission Factor Diesel Engines (lb/gal)**	Potential to Emit (tons/yr)
Benzene	7.76E-04	1.06E-04	4.41E-02
Toluene	2.81E-04	3.85E-05	1.60E-02
Xylenes	1.93E-04	2.64E-05	1.10E-02
Formaldehyde	7.89E-05	1.08E-05	4.49E-03
Acetaldehyde	2.52E-05	3.45E-06	1.43E-03
Acrolein	7.88E-06	1.08E-06	4.48E-04
Total PAH	2.12E-04	2.91E-05	1.21E-02
Total HAPs:	1.57E-03	2.16E-04	0.090

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/MMBtu	1.65E+02	8.10E-03	1.32E-03
Potential Emission in tons/yr			
Totals: Generators 5, 6, 10, & 11	9.40E+03	4.61E-01	7.52E-02

Summed Potential Emissions in tons/yr	9.40E+03
CO2e Total in tons/yr	9,429

Methodology

* Limited Heat Input = (Limited gal/yr) x (7.1 lb/gal) x (19,300 Btu/lb) x (1 MMBtu/10E6 Btu)

** HAP emission factors lb/gal = (Emission Factor in lb/MMBtu) * (1 MMBtu/1,000,000 Btu) * (19,300 Btu/1 lb) * (7.1 lb/1 gal)

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

Criteria Pollutant Emission Factors are the worst-case emission factors from page 7.

HAP, CO2, and CH4 Emission factors are from AP-42 (Supplement B 10/96) Tables 3.4-1, 3.4-3, and 3.4-4.

N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: Donna Cochran
Rensselaer Municipal Electric Utility
122 S Van Rensselaer Street
POB 280
Rensselaer, Indiana 47978

DATE: December 28, 2012

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

SUBJECT: Final Decision
Title V
073-31850-00020

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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December 28, 2012

TO: Jasper County Public Library

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

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

Applicant Name: Rensselaer Municipal Electric Utility
Permit Number: 073-31850-00020

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

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

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 12/28/2012 Rensselaer Municipal Electric Utility 073-31850-00020 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Donna Cochran Rensselaer Municipal Electric Utility 122 S Van Rensselaer St Rensselaer IN 47978 (Source CAATS)										
2		Stephen A Wood Mayor Rensselaer Municipal Electric Utility 124 S Van Rensselaer St Rensselaer IN 47978 (RO CAATS)										
3		Jasper County Commissioners 115 W. Washington Street Rensselaer IN 47978 (Local Official)										
4		Jasper County Health Department 105 W. Kellner St Rensselaer IN 47978-2623 (Health Department)										
5		Jasper Co Public Library 208 W Susan St Rensselaer IN 47978-2699 (Library)										
6		Mr. Kenny Haun P.O. Box 280 Rensselaer IN 47978 (Affected Party)										
7		Rensselaer City Council and Mayors Office P.O. Box 280 Rensselaer IN 47978 (Local Official)										
8		Julie Delp Wilcox Environmental Engineering, Inc. 5757 West 74th Street Indianapolis IN 46278 (Consultant)										
9												
10												
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