



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

To: Interested Parties

Date: December 17, 2014

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

Source Name: Duke Energy Indiana, Inc. – Cayuga Generating Station

Permit Level: Acid Rain – Administrative Amendment

Permit Number: 165-35230-00001

Source Location: State Road 63 Cayuga, Indiana

Type of Action Taken: Changes that are administrative in nature

Notice of Decision: Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the matter referenced above. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 35230.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

(continues on next page)

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

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

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

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

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



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Mack Sims
Duke Energy Indiana, Inc. – Cayuga Generating Station
1000 East Main Street
Plainfield, IN 46168

December 17, 2014

Re: 165-35230-00001
Administrative Amendment to
Acid Rain Renewal 165-29750-00001

Dear Mack Sims:

Duke Energy Indiana, Inc. – Cayuga Generating Station was issued an Acid Rain Permit Renewal No. 165-29750-00001 on January 4, 2011 for a stationary electric utility generating station located at State Road 63, Cayuga, IN 47928. On November 18, 2014, the Office of Air Quality (OAQ) received an application from the source requesting to correct the description of Boiler No. 1 and Boiler No. 2, which use #2 fuel oil for startup, shutdown, and stabilization. The original Title V application, submitted to IDEM in 1996, indicated the use of fuel oil, but this was never included in the operating permit.

Pursuant to 326 IAC 2-7-11(a)(7), this change to the permit is considered an administrative amendment because the permit is amended to change the descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

Proposed Changes:

Pursuant to 326 IAC 2-7-11(a), the permit is hereby administratively amended as follows with the deleted language as strikeouts and new language **bolded**:

Title IV Source Description:

- 1) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993.
- 2) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993.

(The information contained in this box is descriptive information and does not constitute enforceable conditions.)

All other conditions of the permit shall remain unchanged and in effect.

Please find attached the entire Acid Rain Permit as amended.

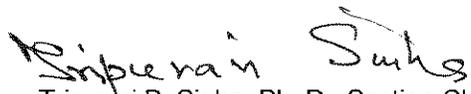
A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For

additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

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 Julie Mendez of my staff, at 317-234-1243 or 1-800-451-6027, and ask for extension 4-1243.

Sincerely,


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

Attachment: Updated Permit

TS/JM

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



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TITLE IV (ACID RAIN) PERMIT RENEWAL OFFICE OF AIR QUALITY

**Duke Energy Indiana, Inc. – Cayuga Generating Station
State Road 63
Cayuga, Indiana, 47928**

ORIS: 1001

The owners and operators (hereinafter collectively known as the Permittee) of the above source are issued this permit under the provisions of 326 Indiana Administrative Code (IAC) 21 [326 IAC 21] with conditions listed on the attached pages.

Operation Permit No.: AR 165-29750-00001	
Issued by: Original Signed Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: January 4, 2011 Expiration Date: January 4, 2016

Administrative Amendment No.: 165-35230-00001	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: December 17, 2014 Expiration Date: January 4, 2016

Title IV Operating Conditions

Title IV Source Description:

- 1) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, using #2 fuel oil for startup, shutdown, and stabilization purposes, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993.
- 2) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, using #2 fuel oil for startup, shutdown, and stabilization purposes, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993.

(The information contained in this box is descriptive information and does not constitute enforceable conditions.)

1. Statutory and Regulatory Authorities

In accordance with IC 13-17-3-4 and IC 13-17-3-11, as well as Titles IV and V of the Clean Air Act, the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) issues this permit pursuant to 326 IAC 2 and 326 IAC 21 (incorporates by reference 40 Code of Federal Regulations (CFR) 72 through 78).

2. Standard Permit Requirements [326 IAC 21]

- (a) The designated representative has submitted a complete acid rain permit application in accordance with 40 CFR 72.30.
- (b) The Permittee shall operate Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) in compliance with this permit.

3. Monitoring Requirements [326 IAC 21]

- (a) The Permittee and, to the extent applicable, the designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall comply with the monitoring requirements as provided in 40 CFR 75 and 76.
- (b) The emissions measurements recorded and reported in accordance with 40 CFR 75 and 76 shall be used to determine compliance by Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (c) The requirements of 40 CFR 75 and 76 shall not affect the responsibility of the Permittee to monitor emissions of other pollutants or other emissions characteristics at Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) under other applicable requirements of the Clean Air Act and other provisions of the operating permit for the source.

4. Sulfur Dioxide Requirements [326 IAC 21]

- (a) The Permittee shall:
 - (1) Hold allowances, as of the allowance transfer deadline (as defined in 40 CFR 72.2), in the compliance subaccount of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2), after deductions under 40 CFR 73.34(c), not less than the total

annual emissions of sulfur dioxide for the previous calendar year from Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2); and,

- (2) Comply with the applicable acid rain emissions limitations for sulfur dioxide.
- (b) Each ton of sulfur dioxide emitted in excess of the acid rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Clean Air Act.
- (c) Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall be subject to the requirements under paragraph 4(a) of the sulfur dioxide requirements as follows:
 - (1) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or,
 - (2) Starting on the latter of January 1, 2000, or the deadline for monitor certification under 40 CFR 75, an affected unit under 40 CFR 72.6(a)(3).
- (d) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (e) An allowance shall not be deducted in order to comply with the requirements under paragraph 4(a) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (f) An allowance allocated by the U.S. EPA under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the acid rain permit application, the acid rain permit, the acid rain portion of an operating permit, or the written exemption under 40 CFR 72.7 and 72.8 and 326 IAC 21, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (g) An allowance allocated by U.S. EPA under the Acid Rain Program does not constitute a property right.
- (h) No permit revision may be required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program, provided that the increases do not require a permit revision under any other applicable requirement.
[326 IAC 2-7-5(4)(A)]
- (i) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not, however, use allowances as a defense to noncompliance with any applicable requirement other than the requirements of the Acid Rain Program.
[326 IAC 2-7-5(4)(B)]

5. Nitrogen Oxides Requirements [326 IAC 21]

- (a) The Permittee shall comply with the applicable acid rain emissions limitation of nitrogen oxides (NO_x) for Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2).
- (b) NO_x Emission Averaging Plan for Unit #1 (Boiler No. 1):
 - (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO_x emission averaging plan for Unit #1 (Boiler No. 1), effective from calendar year 2007 through 2011. Under the plan, the NO_x emissions from Unit #1 (Boiler No. 1) shall not exceed the annual Alternative Contemporaneous Emission Limitation (ACEL) of 0.38 lb/MMBtu. In addition, Unit shall not have an annual heat input less than 30,733,860 MMBtu.

- (2) Under the plan, the actual Btu-weighted annual average NO_x emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11) is met for a year under the plan, then Unit #1 (Boiler No. 1) shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (c) NO_x Emission Averaging Plan for Unit #2 (Boiler No. 2):
- (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a NO_x emission averaging plan for Unit #2 (Boiler No. 2), effective from calendar year 2007 through 2011. Under the plan, the NO_x emissions from Unit #2 (Boiler No. 2) shall not exceed the annual Alternative Contemporaneous Emission Limitation (ACEL) of 0.36 lb/MMBtu. In addition, Unit shall not have an annual heat input less than 34,149,011 MMBtu.
- (2) Under the plan, the actual Btu-weighted annual average NO_x emission rate for all the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11) is met for a year under the plan, then Unit #2 (Boiler No. 2) shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (d) In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the Kentucky Department of Environmental Protection, Division of Air Quality; the North Carolina Department of Environmental and Natural Resources; and the South Carolina Department of Health and Environmental Control, Bureau of Air Quality have also approved this averaging plan.
- (e) In addition to the described NO_x compliance plan, Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall comply with all other applicable requirements of 40 CFR 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

6. Excess Emissions Requirements [40 CFR 77] [326 IAC 21]

- (a) If Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) have excess emissions of sulfur dioxide in any calendar year, the designated representative shall submit a proposed offset plan to U.S. EPA and IDEM, OAQ as required under 40 CFR 77 and 326 IAC 21.
- (b) The designated representative shall submit required information 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

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue, NW
Mail Code (6204N)
Washington, DC 20460

- (c) If Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) have excess emissions, as defined in 40 CFR 72.2, in any calendar year, the Permittee shall:
- (1) Pay to U.S. EPA without demand the penalty required, and pay to U.S. EPA upon demand the interest on that penalty, as required by 40 CFR 77 and 326 IAC 21; and,
 - (2) Comply with the terms of an approved sulfur dioxide offset plan, as required by 40 CFR 77 and 326 IAC 21.

7. Record Keeping and Reporting Requirements [326 IAC 21]

- (a) Unless otherwise provided, the Permittee shall keep on site each of the following documents for a period of 5 years, as required by 40 CFR 72.9(f), from the date the document is created. This period may be extended for cause, at any time prior to the end of the 5 years, in writing by U.S. EPA or IDEM, OAQ:
- (1) The certificate of representation for the designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (2) All emissions monitoring information collected in accordance with 40 CFR 75 shall be retained on site for 3 years;
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (4) Copies of all documents used to complete an acid rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (b) The designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 72.90 subpart I, 40 CFR 75, and 326 IAC 21. The required information is to be submitted to the appropriate authority(ies) as specified in 40 CFR 72.90 subpart I and 40 CFR 75.

8. Submissions [326 IAC 21]

- (a) The designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall submit a certificate of representation, and any superseding certificate of representation, to U.S. EPA and IDEM, OAQ in accordance with 40 CFR 72 and 326 IAC 21.
- (b) The designated representative shall submit required information 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

and

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue, NW
Mail Code (6204N)
Washington, DC 20460

- (c) Each such submission under the Acid Rain Program shall be submitted, signed and certified by the designated representative for all sources on behalf of which the submission is made.
- (d) In each submission under the Acid Rain Program, the designated representative shall certify, by his or her signature, the following statements which shall be included verbatim in the submission:
 - (1) "I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made."; and,
 - (2) "I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- (e) The designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall notify the Permittee:
 - (1) By the date of submission, of any Acid Rain Program submissions by the designated representative;
 - (2) Within 10 business days of receipt of any written determination by U.S. EPA or IDEM, OAQ; and,
 - (3) Provided that the submission or determination covers Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2).
- (f) The designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall provide the Permittee a copy of any submission or determination under paragraph (e) of this section, unless the Permittee expressly waives the right to receive a copy.

9. Severability [326 IAC 21]

Invalidation of the acid rain portion of an operating permit does not affect the continuing validity of the rest of the operating permit, nor shall invalidation of any other portion of the operating permit affect the continuing validity of the acid rain portion of the permit. [40 CFR 72.72(b), 326 IAC 21, and 326 IAC 2-7-5(5)]

10. Liability [326 IAC 21]

- (a) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, an acid rain permit, an acid rain portion of an operation permit, or a written

exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement by U.S. EPA pursuant to Section 113(c) of the Clean Air Act and shall be subject to enforcement by IDEM pursuant to 326 IAC 21 and IC 13-30-3.

- (b) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to Section 113(c) of the Clean Air Act, 18 U.S.C. 1001 and IDEM pursuant to 326 IAC 21 and IC 13-30-6-2.
- (c) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (d) Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall meet the requirements of the Acid Rain Program.
- (e) Any provision of the Acid Rain Program that applies to Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2), including a provision applicable to the designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) shall also apply to the Permittee.
- (f) Any provision of the Acid Rain Program that applies to Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2), including a provision applicable to the designated representative, shall also apply to the Permittee. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR 75, including 40 CFR 75.16, 75.17, and 75.18, the Permittee and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (g) Each violation of a provision of 40 CFR parts 72, 73, 75, 76, 77, and 78 by Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2), or by the Permittee or designated representative, shall be a separate violation of the Clean Air Act.

11. Effect on Other Authorities [326 IAC 21]

No provision of the Acid Rain Program, an acid rain permit application, an acid rain permit, an acid rain portion of an operation permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (a) Except as expressly provided in Title IV of the Clean Air Act (42 USC 7651 to 7651(o)), exempting or excluding the Permittee and, to the extent applicable, the designated representative of Unit #1 (Boiler No. 1) and Unit #2 (Boiler No. 2) from compliance with any other provision of the Clean Air Act, including the provisions of Title I of the Clean Air Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (b) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Clean Air Act;
- (c) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;
- (d) Modifying the Federal Power Act (16 USC 791(a) et seq.) or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

- (e) Interfering with or impairing any program for competitive bidding for power supply in a state in which such a program is established.



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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Mack Sims
Duke Energy Indiana – Cayuga Generating Station
1000 East Main Street
Plainfield, Indiana

DATE: December 17, 2014

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

SUBJECT: Final Decision
Acid Rain – Administrative Amendment
165-35230-00001

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:
Tom Short, Manager / Duke Energy Indiana
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 6/13/2013

Mail Code 61-53

IDEM Staff	AWELLS 12/17/2014 Duke Energy Indiana, Inc. - Cayuga Generating Station 165-35230-00001 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		Mack Sims Duke Energy Indiana, Inc. - Cayuga Generating Stat 1000 East Main Street Plainfield IN 46168 (Source CAATS) confirmed delivery										
2		Tom Short Manager - Cayuga Generating Station Duke Energy Indiana, Inc. - Cayuga Generating Stat c/o Mack Sims, 1000 E Main St Plainfield IN 46168 (RO CAATS)										
3		Cayuga Town Council PO Box 33 Cayuga IN 47928 (Local Official)										
4		Vermillion County Health Department 257 Walnut Street Clinton IN 47842-2342 (Health Department)										
5		Vermillion County Commissioners P.O. Box 190 Newport IN 47966 (Local Official)										
6		J.P. Roehm PO Box 303 Clinton IN 47842 (Affected Party)										
7												
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14												
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
5			



165-35161-0000

DUKE ENERGY CORPORATION
1000 East Main Street
Plainfield, IN 46168-1782



November 18, 2014

Certified Mail, Return Receipt Requested

Indiana Department of Environmental Management
Air Permits Administration
ATTN: Incoming Applications
100 North Senate Avenue
MC 61-53, Room 1003
Indianapolis, IN 46204-2251

RECEIVED
StateofIndiana

NOV 18 2014

DeptofEnvironmentalManagement
StateofIndiana

Re: Cayuga Generating Station
Part 70 Administrative Amendment Request
Part 70 Permit: T165-33876-00001

Cayuga Generating Station Units 1 and 2 uses No. 2 fuel oil for startup, shutdown and stabilization. This use has been described in a previous Title V application for the Station. However, it has come to our attention that the use of fuel oil by these units is not mentioned in the Part 70 operating permit. Coal fired boilers need a fuel with a low ignition temperature to slowly heat the boiler prior to the combustion of coal. During a controlled shutdown, the boiler is brought down on this same fuel. In some circumstances, this fuel may also be used to maintain/stabilize boiler temperature so as to avoid certain boiler maintenance/performance issues. All of Duke Energy Indiana's coal-fired boilers currently use and have always used No. 2 fuel oil for startup, shutdown and/or stabilization purposes.

Attached to this request are copies of forms from the original Cayuga Generating Station Title V application which was submitted to IDEM in November of 1996. The forms are the PI-02 (Combustion Form) and the GSD-03 (Flow Diagram). Both of these forms indicate that No. 2 fuel oil is used as a startup, shutdown and stabilization fuel for Cayuga Units 1 and 2. However, this descriptive information was not put in the original Title V operating permit (T165-7174-00001) nor has it been included in any subsequent renewal to the Title V operating permit.

Consequently, pursuant to 326 IAC 2-7-11(a)(7), the following administrative changes are requested to Part 70 Operating Permit T165-33876-00001. New language appears in **bold**:

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(14)]

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

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and

exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

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

SECTION E.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas

desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

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

SECTION E.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

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

SECTION F Clean Air Interstate (CAIR) Nitrogen Oxides Annual, Sulfur Dioxide, and Nitrogen Oxides Ozone Season Trading Programs – CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)

ORIS Code: 1001

CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)

- (a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, installed in 1967, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 1. Stack 1 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 1 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, installed in 1968, **using #2 fuel oil for startup, shutdown, and stabilization purposes**, with a nominal heat input capacity of 4,802 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, a flue gas desulfurization (FGD) system for control of SO₂, and exhausting to stack 2. Stack 2 has continuous emissions monitors (CEMs) for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) and a continuous opacity monitor (COM). Boiler No. 2 was configured with a low NO_x burner in 1993. Selective Catalytic Oxidation (SCR) to control NO_x, Dry Sorbent Injection System to Control SO₃, Activated Carbon Injection System to assist in Control of Hg emissions scheduled to be installed by 2015.

Under NESHAP Subpart UUUUU, this unit is part of an affected source.

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

If you have any questions regarding this request for Title V Administrative Amendment, please contact Mack Sims by email at mack.sims@duke-energy.com or by phone at 317-838-6937.

Sincerely,

A handwritten signature in cursive script that reads "Tom Short".

Tom Short
General Manager, Cayuga Generating Station

Attachments



AIR PERMIT APPLICATION COVER SHEET
 State Form 50639 (R3 / 11-07)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



NOTES:

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page. Also send a copy to the local agency (if applicable).
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed **instructions** for this form are available online at www.in.gov/idem/permits/air/apps/instructions/coverinstructions.html.

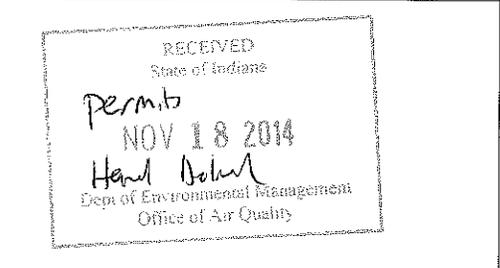
IDEM - Office of Air Quality - Permits Branch
 100 N. Senate Avenue, MC 61-53, Room 1003
 Indianapolis, IN 46204-2251
 Telephone: (317) 233-0178 or
 Toll Free: 1-800-451-6027 x30178 (within Indiana)
 Facsimile Number: (317) 232-6749
www.in.gov/idem/permits/air/index.html

FOR OFFICE USE ONLY

PERMIT NUMBER:

165-351601-00001

DATE APPLICATION WAS RECEIVED:



1. Tax ID Number:

PART A: Purpose of Application

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: Cayuga Generating Station/Duke Energy Indiana Inc. **3. Plant ID:** 165-00001

4. Billing Address: c/o Mack Sims, 1000 East Main Street

City: Plainfield **State:** IN **ZIP Code:** 46168 -

5. Permit Level: Exemption Registration SSOA MSOP FESOP TVOP PBR

6. Application Summary: Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- | | | |
|---|---|--|
| <input type="checkbox"/> Initial Permit | <input type="checkbox"/> Renewal of Operating Permit | <input type="checkbox"/> Asphalt General Permit |
| <input type="checkbox"/> Review Request | <input type="checkbox"/> Revocation of Operating Permit | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source | <input type="checkbox"/> Acid Deposition (Phase II) |
| <input type="checkbox"/> Site Closure | <input type="checkbox"/> Emission Reduction Credit Registry | |

Transition (between permit levels) *From:* _____ *To:* _____

- Administrative Amendment: Company Name Change Change of Responsible Official
 Correction to Non-Technical Information Notice Only Change
 Other (specify): _____

- Modification: New Emission Unit or Control Device Modified Emission Unit or Control Device
 New Applicable Permit Requirement Change to Applicability of a Permit Requirement
 Prevention of Significant Deterioration Emission Offset MACT Preconstruction Review
 Minor Source Modification Significant Source Modification
 Minor Permit Modification Significant Permit Modification
 Other (specify): _____

7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source? Yes No

8. Is this an application for construction of a new emissions unit at an Existing Source? Yes No

PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No Yes: Date:

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No Yes: Proposed Date for Meeting:

PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

Yes No

PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

Tom Short
Name (typed)

General Manager – Cayuga Generating Station
Title

Tom Short
Signature

11/18/14
Date



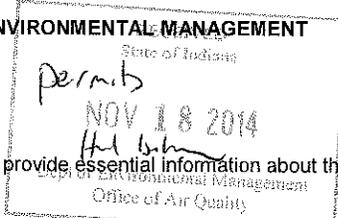
OAQ GENERAL SOURCE DATA APPLICATION

GSD-01: Basic Source Level Information

State Form 50640 (R4 / 9-06)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
 100 N. Senate Avenue, Indianapolis, IN 46204-2251
 Telephone: (317) 233-0178 or
 Toll Free: 1-800-451-6027 x30178 (within Indiana)
 Facsimile Number: (317) 232-6749
www.in.gov/idem/permits/air/index.html



NOTES:

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available online at www.in.gov/idem/permits/air/apps/instructions/gsd01instructions.html.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

PART A: Source / Company Location Information

1. Source / Company Name: Cayuga Generating Station / Duke Energy Indiana, Inc.		2. Plant ID: 165 - 00001	
3. Location Address: State Road 63			
City: Cayuga	State: IN	ZIP Code: 47928 -	
4. County Name: Vermillion		5. Township Name:	
6. Geographic Coordinates: Latitude: 39:55:27		Longitude: 87:25:38	
7. Universal Transferal Mercadum Coordinates (if known): Zone: 16 Horizontal: 463.5 Vertical: 4419.2			
8. Adjacent States: Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Indicate Adjacent State(s): <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Indicate Nonattainment Pollutant(s): <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO _x <input type="checkbox"/> O ₃ <input type="checkbox"/> PM <input type="checkbox"/> PM ₁₀ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> SO ₂			
10. Portable / Stationary: Is this a portable or stationary source? <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Stationary			

PART B: Source Summary

11. Company Internet Address (optional):	
12. Company Name History: Has this source operated under any other name(s)? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Provide information regarding past company names in Part I, Company Name History.	
13. Portable Source Location History: Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes - Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.	
14. Existing Approvals: Have any exemptions, registrations, or permits been issued to this source? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - List these permits and their corresponding emissions units in Part M, Existing Approvals.	
15. Unpermitted Emissions Units: Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - List all unpermitted emissions units in Part N, Unpermitted Emissions Units.	
16. New Source Review: Is this source proposing to construct or modify any emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - List all proposed new construction in Part O, New or Modified Emissions Units.	
17. Risk Management Plan: Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: EPA Facility Identifier: - -	

PART C: Source Contact Information

IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.

18. Name of Source Contact Person: Mack Sims

19. Title (optional):

20. Mailing Address: 1000 East Main Street

City: Plainfield

State: IN

ZIP Code: 46168 -

21. Electronic Mail Address (optional):

22. Telephone Number: (317) 838 - 6937

23. Facsimile Number (optional): () -

PART D: Authorized Individual/Responsible Official Information

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Tom Short

25. Title: Manager of Cayuga Generating Station

26. Mailing Address: c/o Mack Sims, 1000 East Main Street

City: Plainfield

State: IN

ZIP Code: 46168 -

27. Telephone Number: (317) 838 - 6937

28. Facsimile Number (optional): () -

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? *The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.*

No Yes - **Change Responsible Official to:**

PART E: Owner Information

30. Company Name of Owner: Duke Energy Indiana, Inc.

31. Name of Owner Contact Person: Same as Source

32. Mailing Address: Same as Source

City:

State:

ZIP Code: -

33. Telephone Number: () -

34. Facsimile Number (optional): () -

35. Operator: Does the "Owner" company also operate the source to which this application applies?

No - Proceed to Part F below. Yes - Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

PART F: Operator Information

36. Company Name of Operator: Duke Energy Shared Services

37. Name of Operator Contact Person: Same a Source

38. Mailing Address: Same as Source

City:

State:

ZIP Code: -

39. Telephone Number: () -

40. Facsimile Number (optional): () -

PART G: Agent Information

41. **Company Name of Agent:** N/A

42. **Type of Agent:** Environmental Consultant Attorney Other (specify):

43. **Name of Agent Contact Person:**

44. **Mailing Address:**

City:	State:	ZIP Code: -
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45. **Electronic Mail Address (optional):**

46. Telephone Number: () -	47. Facsimile Number (optional): () -
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48. **Request for Follow-up:** Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? No Yes

PART H: Local Library Information

49. **Date application packet was filed with the local library:** Within 10 days of Submittal to IDEM

50. **Name of Library:** Newport-Vermillion County Public Library

51. **Name of Librarian (optional):**

52. **Mailing Address:** 305 East Market Street

City: Newport	State: IN	ZIP Code: 47999 -
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53. **Internet Address (optional):**

54. **Electronic Mail Address (optional):**

55. Telephone Number: (317) 773 - 1384	56. Facsimile Number (optional): () -
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PART I: Company Name History (if applicable)

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

57. Legal Name of Company	58. Dates of Use
Duke Energy Indiana, Inc.	10/01/06 to
PSI Energy, Inc. dba Duke Energy Indiana	04/03/06 to 9/30/2006
PSI Energy, Inc./Cinergy Corp.	Issue Date to 04/2/2006
	to

59. **Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?
 No Yes - **Change Company Name to:**

PART L: Source Process Description

Complete this section to summarize the main processes at the source.

65. Process Description	66. Products	67. SIC Code	68. NAICS Code
Combustion	Electricity and Steam	4911	221112

PART M: Existing Approvals (if applicable)

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

69. Permit ID	70. Emissions Unit IDs	71. Expiration Date
	Plant Wide Part 70 Operation Permit - T165-33876-00001	5/08/2019
	Acid Rain Permit - AR165-29750-00001	1/4/2016

PART N: Unpermitted Emissions Units (if applicable)

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

72. Emissions Unit ID	73. Type of Emissions Unit	74. Actual Dates		
		Began Construction	Completed Construction	Began Operation

PART O: New or Modified Emissions Units (if applicable)

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

75. Emissions Unit ID	76. NEW	77. MOD	78. Type of Emissions Unit	79. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation

COMBUSTION

Unit ID#: 1	Stack ID#: 1
Segment ID#: 1 - Boiler 1 PC DB	SCC #: 10100212
(1) 2 - Boiler 1 Ignition Oil	(2) 10100501

1. Type of heating unit: Boiler (T. Fired)

2. Heat input rate (million Btu/hour) 5040 mm Btu/hr.

3. Combustion Process:

Pulverized - Dry Bottom	<input checked="" type="checkbox"/>	Spreader Stoker
Pulverized - Wet Bottom		Traveling Grate
Pulverized - Tangential	<input checked="" type="checkbox"/>	Fluidized
Cyclone		Natural Gas

Fill out for each fuel and check not applicable if not used.

4. Fueled by coal:							Not Applicable:		
Anthracite		Bituminous	<input checked="" type="checkbox"/>	Subbituminous		Lignite		Coke	
State of Origin	(3) % Ash	(3) % Sulfur		(3) % Moisture (average)	Avg. (3) Heating Btu/lb	Dry?	Moist?		
(1) Indiana	9.53 %	1.58 %		15.07 %	10967		<input checked="" type="checkbox"/>		

5. Residual Oil:				Not Applicable	<input checked="" type="checkbox"/>
Grade of residual oil used: No. 5 No. 6	% Sulfur	Heating Value Btu/gal	Firing: Normal or Tangential		

6. (2) Distillate Fuel:				Not Applicable	
Grade of Distillate fuel used: No. 1, No. 2, No. 4	% Sulfur	Heating Value Btu/gal	Firing: Normal or Tangential (No. 4 only)		
No. 2 (Ignition Oil)	(2) 0.5 %	137,000	N/A		

7. Natural gas:				Not Applicable	<input checked="" type="checkbox"/>
Firing:	Normal		Tangential		

- (1) Coal originates predominantly from Indiana, but not limited to Indiana. Coal from other states may be purchased.
- (2) No. 2 Fuel oil for startup, shut down & stabilization.
- (3) Based on 1995 composite analysis.

COMBUSTION

Unit ID#: 2	Stack ID#: 2
Segment ID#: 2 - Boiler 2 PC DB (a) 2 - Boiler 2 Ignition Fuel	SCC #: 10100212 (a) 10100501

1. Type of heating unit: Boiler (T-Fired)

2. Heat input rate (million Btu/hour) 5040 mm Btu/hr.

3. Combustion Process:

Pulverized - Dry Bottom	X	Spreader Stoker	
Pulverized - Wet Bottom		Traveling Grate	
Pulverized - Tangential	X	Fluidized	
Cyclone		Natural Gas	

Fill out for each fuel and check not applicable if not used.

4. Fueled by coal: Not Applicable:

Anthracite	Bituminous	X	Subbituminous	Lignite	Coke
State of Origin	Avg. % Ash (3)	Avg. % Sulfur (3)	Avg. % Moisture (average) (3)	Avg. Heating Btu/lb (3)	Dry? Moist?
(1) Indiana	9.53 %	1.58 %	15.07 %	10967	X

5. Residual Oil: Not Applicable

Grade of residual oil used: No. 5, No. 6	% Sulfur	Heating Value Btu/gal	Firing: Normal or Tangential

6. Distillate Fuel: Not Applicable

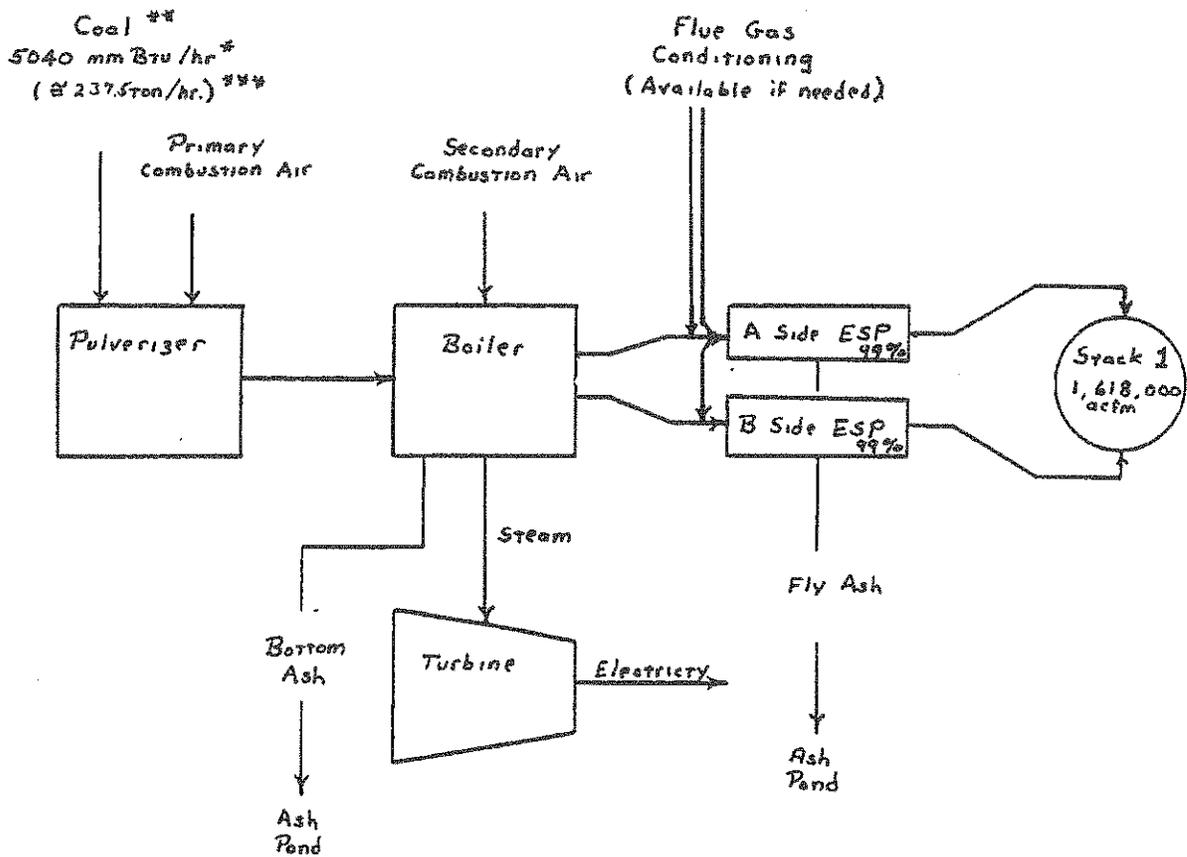
Grade of Distillate fuel used: No. 1, No. 2, No. 4	% Sulfur	Heating Value Btu/gal	Firing: Normal or Tangential (No. 4 only)
No. 2 (Ignition Fuel) (2)	0.5 %	137,000	N/A

7. Natural gas: Not Applicable

Firing:	Normal	Tangential

- (1) Coal originates predominantly, but not limited to, from Indiana. Coal from other states may be purchased.
- (2) No. 2 Fuel oil for startup, shutdown & stabilization.
- (3) Based on 1995 composite analysis.

Cayuga Unit 1 Flow Diagram
S/V # 1



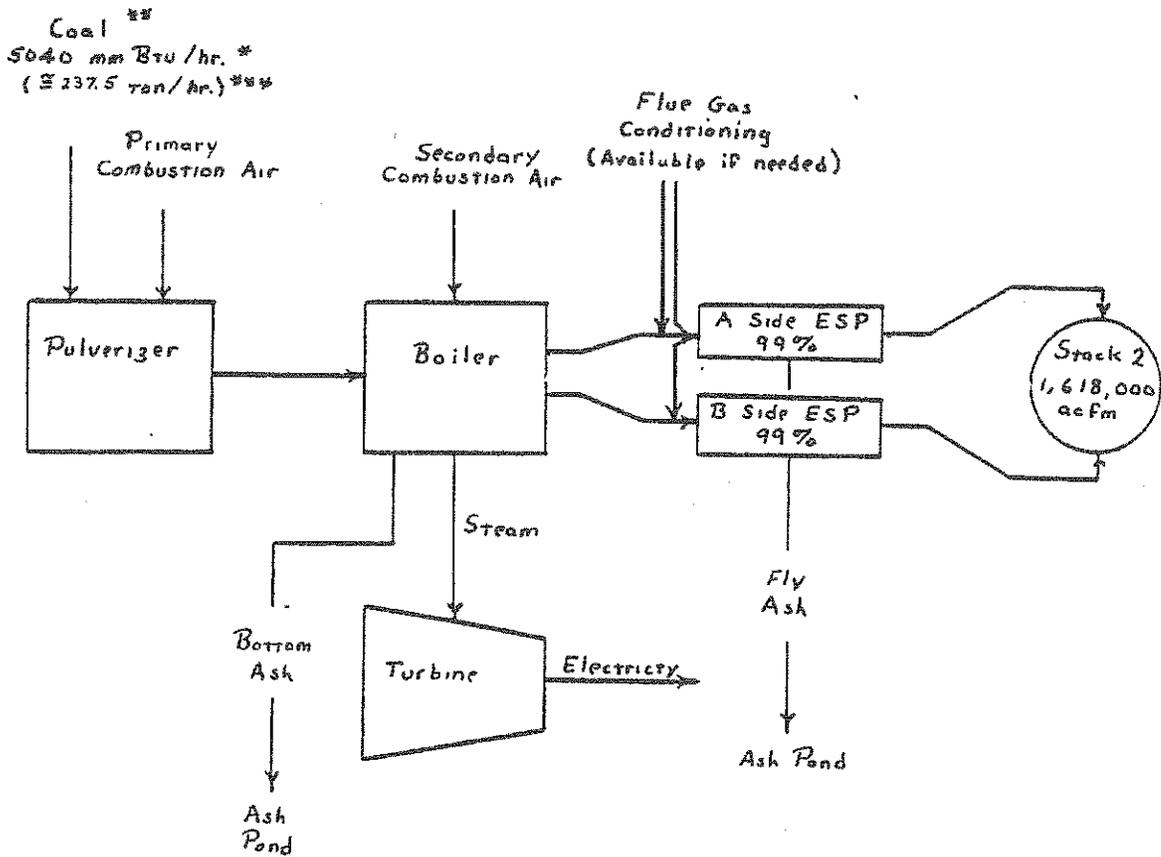
* @ Full Load

** No. 2 Fuel Oil used for startup, shutdown & stabilization.

*** Capacity not limited by mass feed rate, coal feed rate can go higher.

Potential
Operating Schedule: 8760 hrs./yr.

Cayuga Unit 2 Flow Diagram
S/V #2



* @ Full Load
 ** No. 2 Fuel Oil Used for startup, shutdown & stabilization.
 *** Capacity NOT limited by mass feed rate, feed rate can go higher.
 Potential Operating Schedule: 8760 hrs./yr.