



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: March 8, 2011

RE: Duke Energy Indiana – Edwardsport Generating Station / 083-30030-00003

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 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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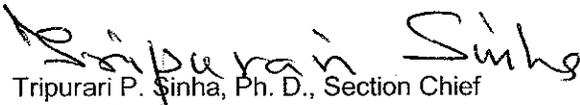
100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

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

Duke Energy Indiana - Edwardsport Generating Station
15424 East State Road 358
Edwardsport, Indiana 47528

ORIS: 1004

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 083-30030-00003	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 8, 2011 Expiration Date: March 8, 2016

Title IV Operating Conditions

Title IV Source Description:

- (a) One (1) No. 2 fuel oil-fired boiler, identified as Boiler No. 6-1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr) and exhausting to stack 6-1.
- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 7-1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, and exhausting to stack 7-1. Stack 7-1 has Continuous Emissions Monitors (CEMs) for Oxides of Nitrogen (NO_x) and Sulfur Dioxide (SO_2) and a continuous opacity monitor (COM).
- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 7-2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, and exhausting to stack 7-2. Stack 7-2 has Continuous Emissions Monitors (CEMs) for Oxides of Nitrogen (NO_x) and Sulfur Dioxide (SO_2) and a continuous opacity monitor (COM).
- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 8-1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, and exhausting to stack 8-1. Stack 8-1 has Continuous Emissions Monitors (CEMs) for Oxides of Nitrogen (NO_x) and Sulfur Dioxide (SO_2) and a continuous opacity monitor (COM).
- (e) Two (2) combined cycle combustion turbine trains each consisting of a combustion turbine and a heat recovery steam generator, designated as CTHRSG1 and CTHRSG2, permitted in 2008, using diffusion combustors firing either syngas, natural gas, or combined syngas and natural gas, and exhausting to Stacks S-2a and S-2b. The turbine trains use nitrogen diluent injection (to control NO_x) when firing syngas, steam injection when firing natural gas, and nitrogen diluent injection and steam injection when co-firing syngas and natural gas.

Nominal Heat Input Capacity (HHV) for each Combustion Turbine Train	
Fuel	MMBtu/hr
Syngas Only	2106
Natural Gas Only	2109
Combined Syngas and Natural Gas	2129

Stacks S-2a and S-2b have continuous emissions monitors (CEMs) for carbon monoxide (CO), nitrogen oxides (NO_x) and sulfur dioxide (SO_2). Mercury (Hg) will be monitored per requirements of 40 CFR Part 60, Subpart Da.

(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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 in compliance with this permit.

3. Monitoring Requirements [326 IAC 21]

- (a) The Permittee and, to the extent applicable, the designated representative of Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, and Boiler No. 8-1 with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. The emissions measurements recorded and reported in accordance with 40 CFR 75 shall be used to determine compliance by CTHRSG1 and CTHRSG2 with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, and Boiler No. 8-1 under other applicable requirements of the Clean Air Act and other provisions of the operating permit for the source. The requirements of 40 CFR 75 shall not affect the responsibility of the Permittee to monitor emissions of other pollutants or other emissions characteristics at CTHRSG1 and CTHRSG2 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2, after deductions under 40 CFR 73.34(c), not less than the total annual emissions of sulfur dioxide for the previous calendar year from Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, and Boiler No. 8-1; 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) Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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) CTHRSG1 and CTHRSG2 were not allocated allowances by United States Environmental Protection Agency (U.S. EPA) under 40 CFR 73.10. However, CTHRSG1 and CTHRSG2 must still comply with the requirement to hold allowances to account for sulfur dioxide emissions under paragraph 4(a) and 326 IAC 21.
- (g) 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.
- (h) An allowance allocated by U.S. EPA under the Acid Rain Program does not constitute a property right.
- (i) 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)]
- (j) 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)]
- (j) Sulfur dioxide allowances shall be allocated to each unit at the source as follows:

SO ₂ Annual Allowance Allocations (tons)					
	2010	2011	2012	2013	2014
Unit 6-1	--	--	--	--	--
Unit 7-1	348*	348*	348*	348*	348*
Unit 7-2	355*	355*	355*	355*	355*
Unit 8-1	375*	375*	375*	375*	375*

* The number of allowances allocated to Phase II affected units by U.S. EPA may change in a revision to 40 CFR 73 Tables 2, 3 and 4 and 326 IAC 21. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitates a revision to the unit SO₂ allowance allocations identified in this permit. (See 40 CFR 72.84)

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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, and Boiler No. 8-1.

(b) NO_x Emission Averaging Plan for Boiler No. 7-1:

- (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a standard NO_x emission averaging plan for Boiler No. 7-1, effective from calendar year 2009 through 2013. Under the plan, the NO_x emissions from Boiler No. 7-1 shall not exceed the annual average alternative contemporaneous emissions limitation (ACEL) of 0.78 lb/MMBtu. In addition, Unit 7-1 shall not have an annual heat input greater than 857,864 MMBtu. If Unit 7-1 is in compliance with its applicable emission limitation for each year of the plan, then Unit 7-1 shall not be subject to the applicable emission limitation, under 40 CFR 76.7(a)(2) of 0.46 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2011.
- (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, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 7-1 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 Boiler No. 7-2:

- (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a standard NO_x emission averaging plan for Boiler No. 7-2, effective from calendar year 2009 through 2013. Under the plan, the NO_x emissions from Boiler No. 7-2 shall not exceed the annual average alternative contemporaneous emission limitation (ACEL) of 0.70 lb/MMBtu. In addition, Unit 7-2 shall not have an annual heat input greater than 611,040 MMBtu. If Unit 7-2 is in compliance with its applicable emission limitation for each year of the plan, then Unit 7-2 shall not be subject to the applicable emission limitation, under 40 CFR 76.7(a)(2) of 0.46 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2011.
- (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, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 7-2 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.

(d) NO_x Emission Averaging Plan for Boiler No. 8-1:

- (1) Pursuant to 40 CFR 76.11, the Indiana Department of Environmental Management, Office of Air Quality approves a standard NO_x emission averaging plan for Boiler No. 8-1, effective from calendar year 2009 through 2013. Under the plan, the NO_x emissions from Boiler No. 8-1 shall not exceed the annual average alternative contemporaneous emission limitation (ACEL) of 0.87 lb/MMBtu. In addition, Unit 8-1 shall not have an annual heat input greater than

623,263 MMBtu. If Unit 8-1 is in compliance with its applicable emission limitation for each year of the plan, then Unit 8-1 shall not be subject to the applicable emission limitation, under 40 CFR 76.7(a)(2) of 0.46 lb/MMBtu for dry bottom wall-fired boilers until January 1, 2011.

- (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, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then Unit 8-1 shall be deemed to be in compliance for that year with its annual ACEL and annual heat input limit.
- (e) 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, North Carolina Department of Environmental and Natural Resources, Division of Air Quality and South Carolina Department of Health and Environmental Control, Bureau of Air Quality have also approved this averaging plan.
- (f) In addition to the described NO_x compliance plan, Boiler No. 7-1, Boiler No. 7-2, and Boiler No. 8-1 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.
- (g) Pursuant to 40 CFR 76, Acid Rain Nitrogen Oxides Emission Reduction Program, the oil fired Boiler No. 6-1 and the natural gas fired combined cycle CTHRSG1 and CTHRSG2 are not subject to the nitrogen oxide limitations set out in 40 CFR 76.

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

- (a) If Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 has 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 has 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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 authorities as specified in 40 CFR 72.90 subpart I and 40 CFR 75.

8. Submissions [326 IAC 21]

- (a) The designated representative of Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2.
- (f) The designated representative of Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 shall provide the Permittee a copy of any submission or determination under paragraph 8(e), 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) Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 shall meet the requirements of the Acid Rain Program.
- (e) Any provision of the Acid Rain Program that applies to Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2, including a provision applicable to the designated representative of Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 shall also apply to the Permittee.
- (f) Any provision of the Acid Rain Program that applies to Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2, 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2, 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 Boiler No. 6-1, Boiler No. 7-1, Boiler No. 7-2, Boiler No. 8-1, CTHRSG1 and CTHRSG2 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.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document For a Title IV (Acid Rain) Permit Renewal

Source Background and Description

Source Name:	Duke Energy Indiana, Inc. - Edwardsport Generating Station
Source Location:	15424 East State Road 358, Edwardsport, Indiana 47528
Mailing Address:	1000 East Main Street, Plainfield, Indiana 46168
County:	Knox
Operated By:	Duke Energy Indiana, Inc
Designated Representative:	Patrick Coughlin
ORIS Code:	1004
Previous Title IV (Acid Rain) Permit No.:	AR 083-19349-00003
Title IV (Acid Rain) Renewal Permit No.:	AR 083-30030-00003
Permit Reviewer:	Josiah Balogun

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) has reviewed a Title IV (Acid Rain) permit renewal application submitted by Duke Energy Indiana, Inc. - Edwardsport Generating Station on December 20, 2010. The application is for the operation of the following affected units at a station located at 15424 East State Road 358, Edwardsport, Indiana.

- (a) One (1) No. 2 fuel oil-fired boiler, identified as Boiler No. 6-1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr) and exhausting to stack 6-1.
- (b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 7-1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, and exhausting to stack 7-1. Stack 7-1 has Continuous Emissions Monitors (CEMs) for Oxides of Nitrogen (NO_x) and Sulfur Dioxide (SO₂) and a continuous opacity monitor (COM).
- (c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 7-2, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, and exhausting to stack 7-2. Stack 7-2 has Continuous Emissions Monitors (CEMs) for Oxides of Nitrogen (NO_x) and Sulfur Dioxide (SO₂) and a continuous opacity monitor (COM).
- (d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 8-1, construction commenced prior to August 17, 1971, with a nominal heat input capacity of 510 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter, and exhausting to stack 8-1. Stack 8-1 has Continuous Emissions Monitors (CEMs) for Oxides of Nitrogen (NO_x) and Sulfur Dioxide (SO₂) and a continuous opacity monitor (COM).

- (e) Two (2) combined cycle combustion turbine trains each consisting of a combustion turbine and a heat recovery steam generator, designated as CTHRSG1 and CTHRSG2, permitted in 2008, using diffusion combustors firing either syngas, natural gas, or combined syngas and natural gas, and exhausting to Stacks S-2a and S-2b. The turbine trains use nitrogen diluent injection (to control NO_x) when firing syngas, steam injection when firing natural gas, and nitrogen diluent injection and steam injection when co-firing syngas and natural gas.

Nominal Heat Input Capacity (HHV) for each Combustion Turbine Train	
Fuel	MMBtu/hr
Syngas Only	2106
Natural Gas Only	2109
Combined Syngas and Natural Gas	2129

Stacks S-2a and S-2b have continuous emissions monitors (CEMs) for carbon monoxide (CO), nitrogen oxides (NO_x) and sulfur dioxide (SO₂). Mercury (Hg) will be monitored per requirements of 40 CFR Part 60, Subpart Da.

This Title IV (Acid Rain) permit renewal AR083-30030-00003, when issued, will have a term of five years and will involve the same affected units as indicated in the initial Title IV (Acid Rain) permit AR 083-19349-00003 and IGCC units CTHRSG1 and CTHRSG2.

Program Description

The following information is provided to explain the Acid Rain Program.

- (a) **Goal of the Program**
The goal of the 1990 Clean Air Act (CAA) Amendments, Acid Rain Program is to reduce the impact of man-made emissions of sulfur dioxide (SO₂) and nitrogen oxide (NO_x) on lakes, streams, forests, crops and, most important, the health of the public, by a nationwide SO₂ allocation of emissions from power plants. While it may not seem to be a local problem, the information collected shows a need for this reduction. This is because these emissions can be transported great distances. Results of the SO₂ and NO_x program, along with past, present and future plans, can be found on the Internet at <http://www.epa.gov/airmarkets/>. Additional information in the form of maps showing the results of the SO₂ and NO_x limitations can be found on the Internet at <http://nadp.sws.uiuc.edu/>.
- (b) **Federal Rules**
The emission allowances and conditions in this draft Title IV (Acid Rain) permit were taken from the limits developed by the U.S. EPA for the Acid Rain Program pursuant to Title IV of the Clean Air Act, 42 United States Code 7401, as amended by Public Law 101-5049 (November 15, 1990). Parts 72 through 78 of Title 40 of the Code of Federal Regulations (CFR), 61 Federal Register (FR) 59142, 61 FR 67111, 61 FR 68821, and 62 FR 3463, apply to regulated power plants.
- (c) **Indiana's Rules**
Title 326 of the Indiana Administrative Code (IAC) Article 21, Acid Deposition Control, has adopted the federal rule by referencing 40 CFR 72 through 78, 61 FR 59142, 61 FR 67111, 61 FR 68821, and 62 FR 3463. The rule incorporates the requirements of Title IV, Clean Air Act Acid Rain Program, of the 1990 Clean Air Act (CAA).
- (d) **Sulfur Dioxide (SO₂) Emission Allocations**
Beginning in 2010, the Clean Air Act has placed a cap at 8.95 million on the number of allowances issued to units each year. No allocations were made for new sources. New regulated power plants have to obtain sulfur dioxide emission allocations by purchasing them from pre-existing power plants that have received U.S. EPA allocations. A regulated

power plant may have emission allocations to sell because the plant purchased newer, less polluting, equipment. The U.S. EPA keeps track of the transfer of all sulfur dioxide emission allocations in an official accounting system.

- (e) Nitrogen Oxide Emission (NO_x) Limitations
 The emission limitations for NO_x under this part apply to each affected coal-fired utility unit subject to section 404(d) or 409(b) of the Act on the date the unit is required to meet the Acid Rain emissions reduction requirements for SO₂.

Specific Sulfur Dioxide (SO₂) Emission Allocations

There are three (3) affected unit(s), identified as Units 7-1, 7-2 and 8-1, in this generating station. Table 1 below summarizes the SO₂ Allowance Allocations for these unit(s).

Table 1					
SO ₂ Allowance Allocations (tons/year)					
	2010	2011	2012	2013	2014
Unit 6-1	--	--	--	--	--
Unit 7-1	348	348	348	348	348
Unit 7-2	355	355	355	355	355
Unit 8-1	375	375	375	375	375

Unit 6-1, an oil-fired boiler, CTHRSG1 and CTHRSG2 using natural gas have no annual allocated sulfur dioxide emission allowances established in the Title IV Acid Rain Program. The unit will be required to seek sulfur dioxide emission allowances from other units, in order to account for all sulfur dioxide emissions, as required by 40 CFR 72.9(c).

Specific NO_x Compliance and Averaging Plan

There are three (3) affected unit(s), identified as Units 7-1, 7-2 and 8-1 in this generating station. Table 2 and 3 below summarize the NO_x compliance and averaging plan for these unit(s).

Table 2			
Calendar Years 2010 to 2014	Emission Limitation per 40 CFR 76.5, 76.6 or 76.7 (lb/MMBTU)	Alternative Limit (lb/MMBTU)	Heat Input Limit (MMBTU)
Unit 7-1	0.46	0.78	857,864
Unit 7-2	0.46	0.70	611,040
Unit 8-1	0.46	0.87	623,263

The BTU weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan = 0.27
 BTU weighted annual average emission rate for the same units operated in compliance with 40 CFR 76 = 0.48

For the year 2007 through 2011 Duke Energy Corporation intends to meet compliance with the annual NO_x emissions requirements of 40 CFR 76 by averaging the NO_x rate and heat inputs for these listed units.

Table 3			
List of Sources Participating in the NO_x Averaging Plan as submitted on January 11, 2007 for Calendar Years 2007 to 2011			
Source Names	No. of Units	Source Names	No. of Units
Cayuga (IN)	2	Buck (NC)	5
Edwardsport (IN)	3	Cliffside (NC)	5
Gallagher (IN)	4	Dan River (NC)	3
Gibson (IN)	5	G. G. Allen (NC)	5
Wabash River (IN)	5	Marshall (NC)	4
East Bend (KY)	1	Riverbend (NC)	4
Belews Creek (NC)	2	W. S. Lee (SC)	3
		Total No. of Units	51
		Total No. of Sources	14

Pursuant to CFR Part 76.11(b), Duke Energy may submit a revised NO_x averaging plan to the permitting authority(ies) at the time up to and including January 1, 2012 for which the averaging plan is to become effective. Duke Energy plans to submit a NO_x averaging plan for the 2012-2016 compliance period before the current NO_x averaging plan expires. Once the 2012-2016 NO_x averaging plan is submitted, Duke will permit application to incorporate the new averaging plan.

Emissions Monitoring Requirements

The Permittee and, to the extent applicable, the designated representative of Units No. 7-1, 7-2 and 8-1 must comply with the monitoring requirements set out in 40 CFR 75 and 72.9(b)(1) and (2). The source must measure and record its emissions of sulfur dioxide. The source must report these measurements to IDEM and U.S. EPA. These records and reports are used to determine if the source is in compliance with the sulfur dioxide allocation program. The requirements of the Title IV (Acid Rain) permit do not affect the source's responsibility to monitor emissions of other pollutants or other emissions characteristics required by the Clean Air Act and other operating permit provisions. Monitoring requirements outlined in the source's Title IV (Acid Rain) permit renewal application are considered as part of the Title IV (Acid Rain) renewal permit.

Other Record Keeping and Reporting Requirements

The source must keep copies of all reports and compliance certifications that it submits to demonstrate compliance with the requirements of the Title IV (Acid Rain) permit for five years. The source must submit the reports and compliance certifications required by the Title IV (Acid Rain) permit to the U.S. EPA and IDEM, OAQ. Record keeping and reporting requirements outlined in the Title IV (Acid Rain) renewal application are considered part of the Title IV (Acid Rain) renewal permit.

Submissions

The designated representative for each emissions unit must sign and certify every report or other submission required by the Title IV (Acid Rain) renewal permit. The designated representative must include the following certification statement in every submission:

"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."

The designated representative must send the Permittee a notification regarding every submission. The designated representative must also notify the Permittee within ten (10) business days of the receipt of any written determination made by U.S. EPA or IDEM.

Draft Title IV (Acid Rain) Permit Renewal

IDEM has preliminarily determined that the source meets the requirements of Indiana Code (IC) 13-17-3-4 and IC 13-17-3-11, as well as Title IV of the Clean Air Act. IDEM proposes this draft Title IV (Acid Rain) permit renewal pursuant to 326 IAC 21.

Recommendation

The staff recommends that the Title IV Acid Rain permit renewal be approved. This recommendation is based on the following facts and conditions.

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

IDEM Contacts

- (a) **Permit**
Questions regarding the proposed Title IV (Acid Rain) renewal permit can be directed to Josiah Balogun at the Indiana Department Environmental Management (IDEM), Office of Air Quality (OAQ), 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5257 or toll free at 1-800-451-6027 extension 4-5257.
- (b) **Compliance Inspection**
The source will be inspected by IDEM's compliance inspection staff. Persons seeking to obtain information regarding the source's compliance status or to report any potential violation of any permit condition should contact Dan Hancock at the Office of Air Quality (OAQ) address or by telephone at (317) 232-8429 or toll free at 1-800-451-6027 extension 2-8429.
- (c) **Copies**
Copies of the Code of Federal Regulations (CFR) referenced in the permit may be obtained from:

Indiana Department of Environmental Management
Office of Air Quality
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

or

The Government Printing Office
Washington, D.C. 20402

or

on the Government Printing Office website at
<http://www.access.gpo.gov/nara/cfr/index.html>



Duke Energy Corporation
526 South Church St.
Charlotte, NC 28202

Mailing Address:
PO Box 1006
Charlotte, NC 28201-1006

December 12, 2006

Indiana Department of Environmental Management
100 N. Senate Ave.
Mail Code 61-50
Indianapolis, IN 46204-2251

Attention: Ms. Janet McCabe

Subject: Acid Rain Program – NOx Compliance
Phase II NOx Averaging Plans

Duke Energy Facilities:	ORIS Code	Permit #
Cayuga	1001	T 165-7174
Edwardsport	1004	T 083-7243
Gibson	6113	T 051-7175
R. Gallagher	1008	T 043-7244
Wabash River	1010	T 167-7176

Attached are Phase II NOx Averaging Plans for the above facilities. For the years 2007 through 2011 Duke Energy Corporation intends to meet compliance with the annual NOx emissions requirements of 40 CFR 76 by averaging the NOx rates and heat inputs for the 52 units listed on the attached forms.

If you have any questions or concerns, please contact Robert Ellison at (980) 373-3229.

Based on information and belief formed after reasonable inquiry, I certify, under penalty of law (federal rule 40 CFR 70.5(d)), that the information and statements provided in this report are true, accurate and complete.

Sincerely,

Mitchell C. Griggs
Vice President - Corporate EHS Services
Duke Energy Carolinas, LLC

Attachments

cc with attachments:
Robert Miller, US EPA, Acid Rain Division
George Needham, Vigo County APC



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page **1** of **4**

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Belews Creek	NC	1	0.68	0.11	61,879,230
Belews Creek	NC	2	0.68	0.10	78,743,845
Buck	NC	5	0.40	0.42	1,757,795
Buck	NC	6	0.40	0.42	1,757,795
Buck	NC	7	0.40	0.39	2,107,277
Buck	NC	8	0.40	0.24	8,531,789
Buck	NC	9	0.40	0.24	8,567,507
Cayuga	IN	1	0.45	0.38	30,733,860
Cayuga	IN	2	0.45	0.36	34,149,011

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.48

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.27

$$\frac{\sum_{i=1}^n [R_{i1} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{i1} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

Plant Name (from Step 1) Cayuga

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
- (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
- (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

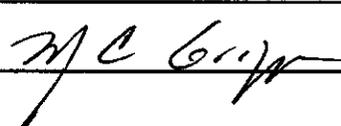
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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. 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.

Name Mitchell C. Griggs (Alt. AAR)	
Signature 	Date 12/18/06

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Cliffside	NC	1	0.40	0.60	1,748,054
Cliffside	NC	2	0.40	0.57	1,766,424
Cliffside	NC	3	0.40	0.59	3,200,829
Cliffside	NC	4	0.40	0.59	3,331,625
Cliffside	NC	5	0.40	0.09	41,176,110
Dan River	NC	1	0.40	0.56	3,242,839
Dan River	NC	2	0.40	0.35	3,886,171
Dan River	NC	3	0.40	0.35	8,059,518
East Bend	KY	2	0.50	0.24	41,472,175
Edwardsport	IN	7-1	0.46	0.78	857,864
Edwardsport	IN	7-2	0.46	0.70	611,040
Edwardsport	IN	8-1	0.46	0.87	623,263
G. G. Allen	NC	1	0.40	0.26	11,331,694
G. G. Allen	NC	2	0.40	0.27	9,413,342
G. G. Allen	NC	3	0.40	0.26	17,474,154
G. G. Allen	NC	4	0.40	0.26	18,980,416
G. G. Allen	NC	5	0.40	0.35	18,714,463
Gallagher	IN	1	0.50	0.41	5,389,866
Gallagher	IN	2	0.50	0.41	5,119,935
Gallagher	IN	3	0.50	0.36	6,624,030
Gallagher	IN	4	0.50	0.36	6,170,982
Gibson	IN	1	0.50	0.29	40,679,344
Gibson	IN	2	0.50	0.29	35,784,543
Gibson	IN	3	0.50	0.30	45,485,728
Gibson	IN	4	0.50	0.29	53,603,321
Gibson	IN	5	0.46	0.30	47,798,920
Marshall	NC	1	0.40	0.26	28,002,460



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page 1 of 4

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Belews Creek	NC	1	0.68	0.11	61,879,230
Belews Creek	NC	2	0.68	0.10	78,743,845
Buck	NC	5	0.40	0.42	1,757,795
Buck	NC	6	0.40	0.42	1,757,795
Buck	NC	7	0.40	0.39	2,107,277
Buck	NC	8	0.40	0.24	8,531,789
Buck	NC	9	0.40	0.24	8,567,507
Cayuga	IN	1	0.45	0.38	30,733,860
Cayuga	IN	2	0.45	0.36	34,149,011

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.48

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.27

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

$$\frac{\sum_{i=1}^n [R_{ii} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{ii} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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. 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.

Name Mitchell C. Griggs (Alt. AAR)	
Signature 	Date 12/19/06

STEP 1

Continue the identification of units from Step 1, page 1, here.

			(a)	(b)	(c)
Plant Name	State	ID#	Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Cliffside	NC	1	0.40	0.60	1,748,054
Cliffside	NC	2	0.40	0.57	1,766,424
Cliffside	NC	3	0.40	0.59	3,200,829
Cliffside	NC	4	0.40	0.59	3,331,625
Cliffside	NC	5	0.40	0.09	41,176,110
Dan River	NC	1	0.40	0.56	3,242,839
Dan River	NC	2	0.40	0.35	3,886,171
Dan River	NC	3	0.40	0.35	8,059,518
East Bend	KY	2	0.50	0.24	41,472,175
Edwardsport	IN	7-1	0.46	0.78	857,864
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Edwardsport	IN	8-1	0.46	0.87	623,263
G. G. Allen	NC	1	0.40	0.26	11,331,694
G. G. Allen	NC	2	0.40	0.27	9,413,342
G. G. Allen	NC	3	0.40	0.26	17,474,154
G. G. Allen	NC	4	0.40	0.26	18,980,416
G. G. Allen	NC	5	0.40	0.35	18,714,463
Gallagher	IN	1	0.50	0.41	5,389,866
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Gibson	IN	1	0.50	0.29	40,679,344
Gibson	IN	2	0.50	0.29	35,784,543
Gibson	IN	3	0.50	0.30	45,485,728
Gibson	IN	4	0.50	0.29	53,603,321
Gibson	IN	5	0.46	0.30	47,798,920
Marshall	NC	1	0.40	0.26	28,002,460



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page 1 of 4

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Belews Creek	NC	1	0.68	0.11	61,879,230
Belews Creek	NC	2	0.68	0.10	78,743,845
Buck	NC	5	0.40	0.42	1,757,795
Buck	NC	6	0.40	0.42	1,757,795
Buck	NC	7	0.40	0.39	2,107,277
Buck	NC	8	0.40	0.24	8,531,789
Buck	NC	9	0.40	0.24	8,567,507
Cayuga	IN	1	0.45	0.38	30,733,860
Cayuga	IN	2	0.45	0.36	34,149,011

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.48

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.27

$$\frac{\sum_{i=1}^n [R_{ii} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{ii} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

Gibson
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
- (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
- (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

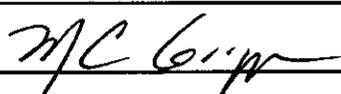
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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. 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.

Name Mitchell C. Griggs (Alt. AAR)	
Signature 	Date 12/19/06

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Cliffside	NC	1	0.40	0.60	1,748,054
Cliffside	NC	2	0.40	0.57	1,766,424
Cliffside	NC	3	0.40	0.59	3,200,829
Cliffside	NC	4	0.40	0.59	3,331,625
Cliffside	NC	5	0.40	0.09	41,176,110
Dan River	NC	1	0.40	0.56	3,242,839
Dan River	NC	2	0.40	0.35	3,886,171
Dan River	NC	3	0.40	0.35	8,059,518
East Bend	KY	2	0.50	0.24	41,472,175
Edwardsport	IN	7-1	0.46	0.78	857,864
Edwardsport	IN	7-2	0.46	0.70	611,040
Edwardsport	IN	8-1	0.46	0.87	623,263
G. G. Allen	NC	1	0.40	0.26	11,331,694
G. G. Allen	NC	2	0.40	0.27	9,413,342
G. G. Allen	NC	3	0.40	0.26	17,474,154
G. G. Allen	NC	4	0.40	0.26	18,980,416
G. G. Allen	NC	5	0.40	0.35	18,714,463
Gallagher	IN	1	0.50	0.41	5,389,866
Gallagher	IN	2	0.50	0.41	5,119,935
Gallagher	IN	3	0.50	0.36	6,624,030
Gallagher	IN	4	0.50	0.36	6,170,982
Gibson	IN	1	0.50	0.29	40,679,344
Gibson	IN	2	0.50	0.29	35,784,543
Gibson	IN	3	0.50	0.30	45,485,728
Gibson	IN	4	0.50	0.29	53,603,321
Gibson	IN	5	0.46	0.30	47,798,920
Marshall	NC	1	0.40	0.26	28,002,460



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page 1 of 4

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Belews Creek	NC	1	0.68	0.11	61,879,230
Belews Creek	NC	2	0.68	0.10	78,743,845
Buck	NC	5	0.40	0.42	1,757,795
Buck	NC	6	0.40	0.42	1,757,795
Buck	NC	7	0.40	0.39	2,107,277
Buck	NC	8	0.40	0.24	8,531,789
Buck	NC	9	0.40	0.24	8,567,507
Cayuga	IN	1	0.45	0.38	30,733,860
Cayuga	IN	2	0.45	0.36	34,149,011

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.48

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.27

$$\frac{\sum_{i=1}^n [R_{1i} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{1i} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

R. Gallagher
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
- (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
- (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

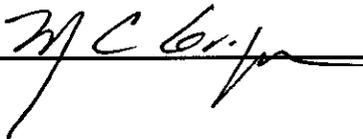
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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. 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.

Name Mitchell C. Griggs (Alt. AAR)	
Signature 	Date 12/14/06

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a)	(b)	(c)
			Emission Limitation	Ait. Contemp. Emission Limitation	Annual Heat Input Limit
Cliffside	NC	1	0.40	0.60	1,748,054
Cliffside	NC	2	0.40	0.57	1,766,424
Cliffside	NC	3	0.40	0.59	3,200,829
Cliffside	NC	4	0.40	0.59	3,331,625
Cliffside	NC	5	0.40	0.09	41,176,110
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Gibson	IN	3	0.50	0.30	45,485,728
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Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page 1 of 4

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

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Cayuga	IN	2	0.45	0.36	34,149,011

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.48

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.27

$$\frac{\sum_{i=1}^n [R_{ii} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{ii} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

Plant Name (from Step 1) Wabash River

STEP 3

Mark one of the two options and enter dates.

- This plan is effective for calendar year 2007 through calendar year 2011 unless notification to terminate the plan is given.
- Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

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- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

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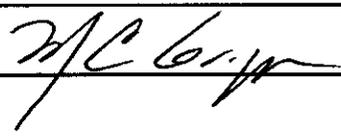
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Name <u>Mitchell C. Griggs (Alt. AAR)</u>	
Signature 	Date <u>12/19/06</u>

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
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Gibson	IN	5	0.46	0.30	47,798,920
Marshall	NC	1	0.40	0.26	28,002,460



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: Patrick Coughlin
Duke Energy Indiana, Inc. – Edwardsport Generating Station
1000 East Main Street
Plainfield, Indiana 46168

DATE: March 8, 2011

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

SUBJECT: Final Decision
Title IV (Acid Rain Renewal)
083-30030-00003

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

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

March 8, 2011

TO: Knox 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: Duke Energy Indiana, Inc. - Edwardsport
Permit Number: 083-30030-00003

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



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: March 8, 2011

RE: Duke Energy Indiana Inc. - Edwardsport / 083-30030-00003

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

In order to conserve paper and reduce postage costs, IDEM's Office of Air Quality is now sending many permit decisions on CDs in Adobe PDF format. The enclosed CD contains information regarding the company named above.

This permit is also available on the IDEM website at:
<http://www.in.gov/ai/appfiles/idem-caats/>

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

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

Please Note: *If you feel you have received this information in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV.*

Enclosures
CD Memo.dot 11/14/08

Mail Code 61-53

IDEM Staff	CDENNY 3/8/2011 Duke Energy Indiana, Inc. 083-30030-00003 (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		Patrick Coughlin Duke Energy Indiana, Inc. - Edwardsport Generating 1000 E Main St Plainfield IN 46168 (Source CAATS)										
2		Station Mgr Duke Energy Indiana, Inc. - Edwardsport Generating c/o P Coughlin, 1000 E Main St Plainfield IN 46168 (RO CAATS)										
3		Mr. Ron Clark 4476 N. American Rd Bicknell IN 47512 (Affected Party)										
4		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
5		Mr. Larry Kane Bringham, Summers, Welsh & Spilman 10 West Market Street, Suite 2700 Indianapolis IN 46204 (Affected Party)										
6		Mr. Kerwin Olson Citizens Action Coalition 603 E Washington St Ste 502 Indianapolis IN 46204 (Affected Party)										
7		Knox County Health Department 520 S. 7th Street Vincennes IN 47591-1038 (Health Department)										
8		Knox Co Public Library 502 N 7th St Vincennes IN 47591-2101 (Library)										
9		Knox County Commissioners 3886 S Middle Hart Street Vincennes IN 47591 (Local Official)										
10		Edwardsport Town Council P.O. Box 142 Edwardsport IN 47528 (Local Official)										
11		Mr. David C. Bender McGillivray Westerberg & Bender LLC 305 S Paterson St Madison WI 53703 (Affected Party)										
12		Joanne Alexandrovich Vanderburgh County Health Dept. 420 Mulberry ST. Evansville IN 47713 (Affected Party)										
13		Gordon Gray Excelsior Energy 11100 Wayzata Blvd, Suite 305 Minnetonka MN 55305 (Affected Party)										
14		Ms. Isabel Piedmont Bloomington City Council 819 S. Washington Street Bloomington IN 47401 (Affected Party)										
15		Mr. Richard Hill SAVE THE VALLEY INC 3800 W H&H RUSTIC LANE PO BOX 813 MADISON IN 47250 (Affected Party)										

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1		Jennifer 1023 Franklin Street Columbus IN 47201 (Affected Party)										
2		Andreas Witzel 1543 Broadway Street Indianapolis IN 46202 (Affected Party)										
3		Ms. Brenda Bragg 1025 Franklin Street Columbus IN 47201 (Affected Party)										
4		Ms. Martha Jane Neufelder 1402 Chestnut Street Columbus IN 47201 (Affected Party)										
5		Mr. Mark Hill City of Vincennes - Common Council 203 Vigo Street Vincennes IN 47591 (Affected Party)										
6		Mr. Matthew Schaefer 1347 North Park Avenue Indianapolis IN 46202 (Affected Party)										
7		Ms. Deborah Quinto 6337 Macatuck Drive Indianapolis IN 46220 (Affected Party)										
8		Mrs. Amanda Figolah 11195 Catalina Drive Fishers IN 46038 (Affected Party)										
9		Mr. Arthur Ross, Sr. 5928 South 75 West Ferdinand IN 47532 (Affected Party)										
10		Mr. Tom Duncan 6146 Ralston Avenue Indianapolis IN 46220 (Affected Party)										
11		Kevin & Elizabeth Curtis 816 West Fourth Street Bicknell IN 47512 (Affected Party)										
12		Ms. Linda Joyner 8261 Redondo Drive Indianapolis IN 46236 (Affected Party)										
13		Mr. John Waterman State of Indiana 200 West Washington Street Indianapolis IN 46204 (Legislator)										
14		Mr. Greg Deaves Sherwin Williams #1211 2704 Hart Street Vincennes IN 47591-9234 (Affected Party)										
15		Daniel McCrary 116 Main St Bicknell IN 47512 (Affected Party)										

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1		Ann 608 Indiana St Bicknell IN 47512 (Affected Party)										
2		Mr. Georg Karl Pastor First Church of God in Vincennes 342 N Hyde Park Drive Vincennes IN 47591 (Affected Party)										
3		Bonnie Sydow 9491 N Freelandville Rd Edwardsport IN 47528 (Affected Party)										
4		Frank Gugliotta 515 W 8th St Bicknell IN 47512 (Affected Party)										
5		Mr. Vincent Griffin Environmental and Energy Policy 115 West Washington Street Suite # 850 S. Indianapolis IN 46204 (Affected Party)										
6		Mark Blackwell PO Box 36 Edwardsport IN 47528 (Affected Party)										
7		Jen Holscher 207 E Shipping St Edwardsport In 47528 (Affected Party)										
8		James Parish 924 N 9th Vincennes IN 47591 (Affected Party)										
9		Casey Robbins 9344 E Pepmeier Rd Oaktown IN 47561 (Affected Party)										
10		Steven Fields PO Box 237 Edwardsport IN 47528 (Affected Party)										
11		Tim Ellerman 1660 Lost Rd Monroe City In 47557 (Affected Party)										
12		H. J. Halterman The Vincennes Daily Capital PO Box 2 Oaktown In 47561 (Affected Party)										
13		Carl Koraleski 1811 Woodlawn Dr Washington In 47501 (Affected Party)										
14		Don Hart 4 Robert Dr Bicknell In 47512 (Affected Party)										
15		Jeanna Cummings PO Box 61 Edwardsport IN 47528 (Affected Party)										

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1		George 302 S 4th St PO Box 102 Edwardsport In 47528 (Affected Party)										
2		Clint Jochim 604 S Main St Bicknell In 47512 (Affected Party)										
3		James Sweeney 417 W 5th Bicknell IN 47591 (Affected Party)										
4		Russell Buck 15457 E ST RD 358 Edwardsport IN 47528 (Affected Party)										
5		Gerald Hill 911 Popcorn Rd Springville In 47462 (Affected Party)										
6		Clark Anderson PO Box 101 Westphalia IN 47596 (Affected Party)										
7		Andrew Moreland 406 S Main Bicknell IN 47512 (Affected Party)										
8		Emily Heineke 609 N 5th St Vincennes IN 47591 (Affected Party)										
9		Scott Brown PO Box 447 Vincennes In 47591 (Affected Party)										
10		Dee Johnson PO Box 74 Nineveh In 46164 (Affected Party)										
11		Robert Lechner 310 Plumtree Vincennes In 47591 (Affected Party)										
12		Al Baldwin 1402 Old Orchard Place Vincennes In 47591 (Affected Party)										
13		Marc McNeece 608 N 6th Vincennes In 47591 (Affected Party)										
14		James Newkirk PO Box 61 Edwardsport In 47528 (Affected Party)										
15		Gary Gentry PO Box 246 Newburgh IN 47629 (Affected Party)										

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1		P. R. 2899 S Hickory Cr Rd Vincennes In 47591 (Affected Party)										
2		Patrick Fazio PO Box 299 Terre Haute In 47808 (Affected Party)										
3		Mr. Kent Hert RR1 BOX 192 Springville IN 47462 (Affected Party)										
4		Ms. Linda Montag-Olson 6495 Glenwood Drive Zionsville IN 46071 (Affected Party)										
5		Mr. Brad Severance 6443 Bayside North Indianapolis IN 46250 (Affected Party)										
6		Jane Goodman 715 W 13th St Bloomington IN 47408 (Affected Party)										
7		Susan Bookout 3723 Tamarron Dr Bloomington In 47408 (Affected Party)										
8		Matt Zink 100 Town Hill Rd Nashville In 47448 (Affected Party)										
9		Lynn Jenkins 1730 S 950 E Zionsville In 46077 (Affected Party)										
10		Debra Spratt 12637 Duval Dr Fishers In 46037 (Affected Party)										
11		Karen Dopkins 12625 Valhalla Lane Fishers In 46037 (Affected Party)										
12		Thomas & Beth Hollingsworth 2321 E Rechter Rd Bloomington In 47401 (Affected Party)										
13		Anne & Christopher Haynes 626 N Grandview Dr Bloomington IN 47408 (Affected Party)										
14		Armin Moczek 1800 Windsor Dr Bloomington In 47401 (Affected Party)										
15		Mary Andrus-Overly 2212 Queens Way Bloomington In 47401 (Affected Party)										

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											Remarks
1		Beckie 4100 S Rockport Rd Bloomington In 47403 (Affected Party)									
2		Edwin & Monica Jensen 3432 N Valleyview Dr Bloomington In 47404 (Affected Party)									
3		Mary Beth OBrien 100 Town Hill Rd Nashville In 47448 (Affected Party)									
4		Shain Woodbury 2209 Laurelwood Dr Bloomington In 47401 (Affected Party)									
5		Silja Weber 620 W Howe St Apt A Bloomington In 47403 (Affected Party)									
6		Dorothy & Steven Sowell 409 E Clover Lane Bloomington In 47408 (Affected Party)									
7		Jason Hill 210 W 14th St Bloomington In 47404 (Affected Party)									
8		Velda Kanne PO Box 2174 Bloomington In 47402-2174 (Affected Party)									
9		Cynthia Schultz 1643 E Maplecrest Dr Bloomington In 47408 (Affected Party)									
10		Marcia Veldman 6181 Kent Rd Bloomington In 47401 (Affected Party)									
11		Peter & Carolyn Mitchell 6412 Wellston Drive Bloomington IN 47408 (Affected Party)									
12		Mary Blizzard 1510 E Maxwell Lane Bloomington In 47401 (Affected Party)									
13		Kim Sakmann 8700 E St Road 45 Unionville IN 47468 (Affected Party)									
14		Chris Judge 3611 Bainbridge Road Bloomington IN 47401 (Affected Party)									
15		John Thompson Clean Air Task Force 231 W Main Suite 1E Carbondale IL 62901 (Affected Party)									

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1		Mary Indiana Green Party PO BOX 441105 Indianapolis IN 46244 (Affected Party)										
2		David Pilbrow 3308 Ivory Way Indianapolis In 46227 (Affected Party)										
3		Martha Sattinger 4333 E Stephens Dr Bloomington In 47408 (Affected Party)										
4		Laura Mojonnier 1800 E Windsor Drive Bloomington IN 47401 (Affected Party)										
5		Jeanette Rowe 4980 W 59th Street Indainapolis IN 46254 (Affected Party)										
6		Mr. David Keppel 1308 North Maple Street Apt #22 Bloomington IN 47404-3367 (Affected Party)										
7		H. Jane Sandberg 2201 N Fritz Drive Bloomington IN 46204-2251 (Affected Party)										
8		Mr. Greg Foote 6199 Norwaldo Avenue Indianapolis IN 46220 (Affected Party)										
9		Marilyn Bedford 9222 Garrison Drive Apt 303-B Indianapolis IN 46240 (Affected Party)										
10		Ms. Elizabeth Page 7145 Franklin Parke Boulevard Indianapolis IN 46259-5723 (Affected Party)										
11		Mr. Jim Sweeney 1773 Selo Drive Schererville IN 46372 (Affected Party)										
12		Joan Keeler 412 E Cardinal Drive Bloomington IN 47401 (Affected Party)										
13		DEBORAH ALLMAYER INDIANA UNIVERSITY 2711 E 10TH ST BLOOMINGTON IN 47408 (Affected Party)										
14		ARLIS BATES 936 VANDALIA ST HILLSBORO IL 62049 (Affected Party)										
15		Mr. TERRANCE BLACK GREEN WAY SUPPLY 620 N DELEWARE ST INDIANPOLIS IN 46204 (Affected Party)										

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1		John 800 Adams Ave Evansville IN 47713 (Affected Party)										
2		Mr. Greg Buck Director Campaign for Sustainable Economics 537 Fletcher Ave #2 Indianapolis IN 46203 (Affected Party)										
3		Mr. Greg Cardinal First American Bank PO BOX 1317 Vincennes IN 47591 (Affected Party)										
4		Mary Helfer 936 Vandalia St Hillsboro IL 62049 (Affected Party)										
5		Mr. Douglas Halton 15290 Nashua Cir Westfield IN 46074 (Affected Party)										
6		Mr. Richard Helton Vincennes University 1002 N First St Vincennes IN 47591 (Affected Party)										
7		Mrs. Judith Hostetter 6315 E Pleasant Run Pkwy South Dr Indianapolis IN 46219 (Affected Party)										
8		Anne Jacoby Generations 1019 N 4th St PO BOX 314 Vincennes IN 47591 (Affected Party)										
9		Elizabeth Joshi 2377 Lakeridge Dr Newburgh IN 47630 (Affected Party)										
10		Tim Kiger Schoot North America 2000 Chestnut St Vincennes IN 47591 (Affected Party)										
11		Mr. Terry Mooney City of Vincennes 201 Vigo St Vincennes IN 47591 (Affected Party)										
12		Tammy J. Orahoad 2417 Shadow Grove Ct Bloomington IN 47401 (Affected Party)										
13		Kevin Rowland Stradtner, Rowland & Associates 518 Main St Vincennes IN 47591 (Affected Party)										
14		Helen Seirp Old National Bank PO BOX 1200 Vincennes IN 47591 (Affected Party)										
15		Terry Singleton 4249 Sunrise Dr Sellersburg IN 47172 (Affected Party)										

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1		Timothy Fire Chief Vincennes Twp Fire Dept 1265 S Hart St Rd Vincennes IN 47591 (Affected Party)										
2		J. Wayne Thomann Kemper CPA Group. LLC 505 N 6th Street P O Box 297 Vincennes IN 47591 (Affected Party)										
3		Fred E. Thompson Knox County Commissioner 4315 N Camp Arthur Road Bruceville IN 47516 (Affected Party)										
4		Kent E. Utt Community Bank President, Region Bank 2202 N 6th Street Vincennes IN 47591 (Affected Party)										
5		Tim Wilson 1260 Thornton Court Apt. D Columbus IN 47201 (Affected Party)										
6		Greg Wolters Schott North America 2000 Chestnut Street Vincennes IN 47591 (Affected Party)										
7		Nicole Robinson MPR Associates 320 King Street, Suite 400 Alexandria VA 22314 (Affected Party)										
8		Mr. Patrick Coughlin Duke Energy Indiana, Inc. 1000 East Main Street Plainfield IN 46168 (Source ? addl contact)										
9		Mack Sims Duke Energy Indiana - Edwardsport 1000 E Main Street Plainfield IN 46168 (Source & addl contact)										
10		Rex Alton 2341 S Old Decker Rd Vincennes IN 47591 (Affected Party)										
11		Zac Elliot Citizens Action Coalition of Indiana 603 E Washington St # 502 Indianapolis IN 46204 (Affected Party)										
12		Steve Thais 203 Nicholas St Vincennes IN 47591 (Affected Party)										
13												
14												
15												

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