



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
50 W. Town St., Suite 700  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184  
www.epa.ohio.gov

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

2/5/2010

Pamela Blakley *Via E-Mail Notification*  
United States Environmental Protection Agency  
Mail Code: AR-18J  
77 West Jackson Blvd.  
Chicago, IL 60604-3507

RE: PROPOSED AIR POLLUTION TITLE IV ACID RAIN PERMIT  
Facility Name: Picway Power Plant  
Facility ID: 0165000006  
Permit Type: Renewal  
Permit Number: P0104708

Dear Ms. Blakley:

A proposed OAC Chapter 3745-103 Title IV permit for the referenced facility has been issued for review by U.S. EPA. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page <http://www.epa.ohio.gov/dapc> in Microsoft Word and Adobe Acrobat format. If U.S. EPA does not object to this proposed permit, the permit will be processed for issuance as a final action not less than 45 days from the date of this letter. Please contact me at (614) 644-3631 by the end of the 45 day review period if you wish to object to the proposed permit.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA DAPC, Central District Office

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**PROPOSED**

**Title IV Acid Rain Permit  
OAC Chapter 3745-103**

Picway Power Plant

Facility ID: 0165000006

Permit Number: P0104708

Permit Type: Renewal

Issued: 2/5/2010

Effective: To be entered upon final issuance

Expiration: To be entered upon final issuance





State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Title IV Acid Rain Permit**  
**OAC Chapter 3745-103**  
Picway Power Plant

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State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Proposed Title IV Acid Rain Permit**

**Permit Number:** P0104708

**Facility ID:** 0165000006

**Effective Date:** To be entered upon final issuance

## Authorization

Facility ID: 0165000006

Facility Description: Electric services

Application Number(s): A0036922

Permit Number: P0104708

Permit Description: Renewal of Title IV Acid Rain Permit

Permit Type: Renewal

Issue Date: 2/5/2010

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of an OAC Chapter 3745-103 Title V permit to:

Picway Power Plant  
9301 U.S. Route 23  
Lockbourne, OH 43137-9631

The above named entity is hereby granted a Title IV acid rain permit pursuant to Chapter 3745-103 of the Ohio Administrative Code. This permit shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 6 months prior to the expiration date regarding the renewal of this permit. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received. If a renewal permit is not issued prior to the expiration date, the permittee may continue to follow the terms and conditions of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted by the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Proposed Title IV Acid Rain Permit**

**Permit Number:** P0104708

**Facility ID:** 0165000006

**Effective Date:** To be entered upon final issuance

## **A. Standard Terms and Conditions**



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Proposed Title IV Acid Rain Permit**

**Permit Number:** P0104708

**Facility ID:** 0165000006

**Effective Date:** To be entered upon final issuance

**1. Statement of Basis**

- a) In accordance with Ohio Revised Code Section 3704 and Titles IV and V of the Clean Air Act, the Ohio Environmental Protection Agency issues this permit pursuant to Ohio Administrative Code (OAC) Chapters 3745-103 and 3745-77.

**2. Permit Application**

- a) Attached as part of this permit is the permittee's Title IV Acid Rain Permit Application (See Appendix A). The application contains additional conditions, terms and limitations that must be met and that are a part of this permit. The application identifies the affected source, affected units, and specifies standard requirements (Permit Requirements, Monitoring Requirements, Sulfur Dioxide Requirements, Nitrogen Oxides Requirements, Excess Emissions Requirements, Record keeping and Reporting Requirements, Liability, and Effect on Other Authorities).



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Proposed Title IV Acid Rain Permit**

**Permit Number:** P0104708

**Facility ID:** 0165000006

**Effective Date:** To be entered upon final issuance

## **B. Emissions Unit Terms and Conditions**



1. **B004**

**ORIS Code: 2843**

**Acid Rain Program Description:**

Unit #9

a) Sulfur Dioxide (SO<sub>2</sub>) Allowance Allocations

The owners and operators of each source and each affected unit at the sources shall:

- (1) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
- (2) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

b) Nitrogen Oxides (NO<sub>x</sub>) Requirements

- (1) Pursuant to rules 3745-103-55 through 3745-103-66 of the Administrative Code, the Ohio EPA approves a NO<sub>x</sub> emissions averaging plan for this unit, effective for calendar years 2010 through 2011, and a NO<sub>x</sub> standard emissions limitation plan for this unit, effective for calendar years 2012 through 2014. Under the averaging plan, this unit's NO<sub>x</sub> emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.50 lb/mmBtu. Under the standard plan, this unit's annual average NO<sub>x</sub> emissions rate, determined in accordance with 40 CFR Part 75, shall not exceed the applicable emission limitation, under Paragraph (A)(2) of rule 3745-103-57 of the Administrative Code, of 0.50 lb/mmBtu for dry bottom wall fired boilers.
- (2) Under the averaging plan, the actual Btu-weighted annual average NO<sub>x</sub> emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO<sub>x</sub> 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 OAC rules 3745-103-57, 3745-103-58, or 3745-103-59, except that for any early election units, the applicable emission limitations shall be under OAC rule 3745-103-59. If the designated representative demonstrates that the requirement of the prior sentence as set forth in OAC rule 3745-103-63(D)(1)(b)(i) is met for a year under the averaging plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit. In accordance with paragraph (A)(2) of rule 3745-103-09 of the Administrative Code, approval of the averaging plan shall be final only when Arkansas, Indiana, Kentucky, Oklahoma, Texas, Virginia, and West Virginia have also approved this averaging plan.
- (3) In addition to the described NO<sub>x</sub> compliance plans, this unit shall comply with all other applicable requirements of OAC rules 3745-103-55 through 3745-103-66, including the duty to reapply for a NO<sub>x</sub> compliance plan and requirements covering excess emissions.
- (4) The requirements in this permit are designed to meet Title IV of the Clean Air Act and the corresponding regulations of U.S. EPA and Ohio EPA. This source is also required to meet any applicable requirements of OAC rules 3745-14-01 through 3745-14-12.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Proposed Title IV Acid Rain Permit**

**Permit Number:** P0104708

**Facility ID:** 0165000006

**Effective Date:** To be entered upon final issuance

c) Comments, Notes, and Justifications

(1) None.

JUN 26 2002



**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Dana Thompson  
Ohio Environmental Protection Agency  
Air Quality Modeling and Planning  
Lazarus Government Center  
122 South Front Street  
Columbus, OH 43216-1049

June 21, 2002

Dear Mr. Thompson,

As the Designated Representative for the American Electric Power units affected under the Clean Air Act Title IV program, I am hereby submitting Acid Rain Renewal Application forms for our Ohio plants including Cardinal, Conesville, Gavin, Muskingum River, and Picway. These facilities have existing Title IV permits that expire on December 31, 2002.

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.

If there are any questions on this submittal, feel free to contact me at 614/223-1268.

Sincerely,

A handwritten signature in black ink that reads "John M. McManus".

John M. McManus  
Designated Representative

cc: Mr. Robert Miller - USEPA  
Dwight C. Alpern - USEPA



Picway Plant

Plant Name (from Step 1)

**Permit Requirements****STEP 3**Read the  
standard  
requirements

- (1) The designated representative of each affected source and each affected unit at the source shall:
- (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
- (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  - (ii) Have an Acid Rain Permit.

**Monitoring Requirements**

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

**Sulfur Dioxide Requirements**

- (1) The owners and operators of each source and each affected unit at the source shall:
- (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
- (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator 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, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

**STEP 3,  
Cont'd.**

**Nitrogen Oxides Requirements** The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

**Excess Emissions Requirements**

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

**Recordkeeping and Reporting Requirements**

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each affected unit at the source 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;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  - (iv) 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.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

**Liability**

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an 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 pursuant to section 113(c) of the Act.
- (2) 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 Act and 18 U.S.C. 1001.
- (3) 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.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Picway Plant

Plant Name (from Step 1)

Step 3,  
Cont'd.**Liability, Cont'd.**

- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators 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.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

**Effect on Other Authorities**

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) 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 Act;
- (3) 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;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

**STEP 4****Certification**

Read the  
certification  
statement,  
sign, and  
date

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	John M. McManus	
Signature		Date 6/20/02



# Phase II NO<sub>x</sub> Compliance Plan

For more information, see instructions and refer to 40 CFR 76.8

This submission is:  New  Revised

**STEP 1**  
Indicate plant name, State, and ORIS code from NADB, if applicable

Picway	OH	2843
Plant Name	State	ORIS Code

**STEP 2**

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

9					
ID#	ID#	ID#	ID#	ID#	ID#
DBW					
Type	Type	Type	Type	Type	Type

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)

(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)

(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/97 (also indicate above emission limit specified in plan)

(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)

(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)

(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)

(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)

(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)

(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)

(j) NO<sub>x</sub> Averaging Plan (include NO<sub>x</sub> Averaging form)

(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO<sub>x</sub> Averaging (check the NO<sub>x</sub> Averaging Plan box and include NO<sub>x</sub> Averaging form)

Picway  
Plant Name (from Step 1)

STEP 2, cont'd.

ID# <sup>9</sup>	ID#	ID#	ID#	ID#	ID#
Type DBW	Type	Type	Type	Type	Type

(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)

(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)

(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

(p) Repowering extension plan approved or under review

STEP 3  
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO<sub>x</sub> as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7.

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.

John M. McManus	
Name	
Signature 	Date 16-Jan-02



# Phase II NO<sub>x</sub> Averaging Plan

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

This submission is:  New  Revised

## 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
Rockport	IN	MB1	0.46	0.46	94,595,000
Rockport	IN	MB2	0.46	0.46	82,260,000
Tanners Creek	IN	U1	0.80	0.80	5,429,000
Tanners Creek	IN	U2	0.80	0.80	5,394,000
Tanners Creek	IN	U3	0.80	0.80	9,557,000
Tanners Creek	IN	U4	0.86	1.58	33,431,000
Big Sandy	KY	BSU1	0.46	0.58	16,719,000
Big Sandy	KY	BSU2	0.46	0.58	44,857,000
Conesville	OH	3	0.50	0.51	4,746,000

## 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

.59

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

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

.59

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

≤

Where,

- R<sub>Li</sub> = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R<sub>Ii</sub> = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI<sub>i</sub> = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

Picway  
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year 2002 through calendar year 2006 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<sub>x</sub> 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.

John M. McManus Name	
Signature <i>John M. McManus</i>	16-Jan-02 Date

Picway  
Plant Name (from Step 1)

**STEP 1**

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

Plant Name	State	ID#	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Conesville	OH	4	0.45	0.45	14,733,000
Conesville	OH	5	0.40	0.43	11,227,000
Conesville	OH	6	0.40	0.43	16,144,000
Muskingum	OH	1	0.84	0.74	6,250,000
Muskingum	OH	2	0.84	0.74	6,042,000
Muskingum	OH	3	0.86	0.74	7,575,000
Muskingum	OH	4	0.86	0.74	7,967,000
Muskingum	OH	5	0.68	0.68	32,619,000
Picway	OH	9	0.50	0.51	1,928,000
Clinch River	VA	1	0.80	0.71	11,366,000
Clinch River	VA	2	0.80	0.71	14,350,000
Clinch River	VA	3	0.80	0.71	14,544,000
Glen Lyn	VA	51	0.40	0.47	1,581,500
Glen Lyn	VA	52	0.40	0.47	1,581,500
Glen Lyn	VA	6	0.46	0.70	5,930,000
John E Amos	WV	1	0.46	0.47	45,691,000
John E Amos	WV	2	0.46	0.47	50,978,000
John E Amos	WV	3	0.68	0.70	81,651,000
Kammer	WV	1	0.86	0.80	13,318,000
Kammer	WV	2	0.86	0.80	11,456,000
Kammer	WV	3	0.86	0.80	12,838,000
Kanawha	WV	1	0.80	0.62	8,543,000
Kanawha	WV	2	0.80	0.62	9,132,000
Mitchell	WV	1	0.50	0.51	34,079,000
Mitchell	WV	2	0.50	0.51	34,224,000
Mountaineer	WV	1	0.46	0.49	84,213,000
Sporn	WV	11	0.80	0.69	4,744,000





American Electric Power  
1 Riverside Plaza  
Columbus, OH 43215  
AEP.com

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

7006 0810 0002 3526 9328

Director - Ohio EPA  
Lazarus Government Center  
122 S. Front St.  
Columbus, OH 43215

December 19, 2006

Dear Director,

Pursuant to 40 CFR § 76.11 - Emissions Averaging, the enclosed submissions are being made on behalf of American Electric Power (AEP). It is AEP's intention to have the units identified in the plan, including Cardinal Unit 1-3, Conesville Units 3-6, Gavin Units 1-2, Muskingum River Units 1-5, and Picway Unit 9, become subject to an approved NOx averaging plan, beginning January 1, 2007. These limits will be in effect until January 1, 2011 or January 1 of a calendar year for which the plan is terminated.

As the Designated Representative for the American Electric Power units affected under the Clean Air Act Title IV program, I am hereby submitting a revised Phase II NOx Compliance Plan for Cardinal, Conesville, Gavin, Muskingum River, and Picway Plants and the associated Phase II NOx Averaging Plan forms. Included in this package is one original for your review and action.

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.

If there are any questions on this submittal, feel free to contact me at 614/716-1268.

Sincerely,

A handwritten signature in dark ink, appearing to read 'John M. McManus', written in a cursive style.

John M. McManus  
Designated Representative

cc: U.S. EPA Clean Air Markets Division

bc: J.J. Henry – AEP Legal  
P.A. Dal Porto / Appropriate Air Quality Individual for Section Filing  
D.H. Shearn/C.M. Hewett - Cardinal Plant  
M.S. Borman/G.M. Hammond - Conesville Plant  
D.P. Hoffman/D.M. Anderson - Gavin Plant  
D.J. Kohler/J.D. Ludwig - Muskingum River Plant  
M.E. Zando/M.A. Allen - Picway Plant  
R.R. D'Auteuil - Buckeye Power

Cc Address(s):

U. S. Environmental Protection Agency  
Clean Air Markets Division (6204J)  
Attn: Phase II NOx  
1200 Pennsylvania Ave., NW  
Washington, DC 20460



# Phase II NO<sub>x</sub> Compliance Plan

Page  of

For more information, see instructions and refer to 40 CFR 76.9

This submission is:  New  Revised

**STEP 1**  
Indicate plant name,  
State, and ORIS code  
from NADB, if applicable

Picway	OH	2843
Plant Name	State	ORIS Code

**STEP 2**

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

9					
ID#	ID#	ID#	ID#	ID#	ID#
DBW					
Type	Type	Type	Type	Type	Type

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f) Standard annual average emission limitation of 0.65 lb/mmBtu (for cell burner boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(j) NO <sub>x</sub> Averaging Plan (include NO <sub>x</sub> Averaging form)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO <sub>x</sub> Averaging (check the NO <sub>x</sub> Averaging Plan box and include NO <sub>x</sub> Averaging form)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Picway  
Plant Name (from Step 1)

STEP 2, cont'd.

ID# <sup>9</sup>	ID#	ID#	ID#	ID#	ID#
Type DBW	Type	Type	Type	Type	Type

(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)	<input type="checkbox"/>					
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	<input type="checkbox"/>					
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	<input type="checkbox"/>					
(p) Repowering extension plan approved or under review	<input type="checkbox"/>					

**STEP 3**  
Read the standard requirements and certification, enter the name of the designated representative, sign &

**Standard Requirements**

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

**Special Provisions for Early Election Units**

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO<sub>x</sub> as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7.

**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.

John M. McManus	
Name	
Signature <i>John M. McManus</i>	December 19, 2006
	Date



# Phase II NO<sub>x</sub> Averaging Plan

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

Page 1

This submission is:  New  Revised

Page  of

## 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
Rockport	IN	MB1	0.46	0.46	88,636,400
Rockport	IN	MB2	0.46	0.46	93,566,400
Tanners Creek	IN	U1	0.80	0.80	8,960,400
Tanners Creek	IN	U2	0.80	0.80	9,839,600
Tanners Creek	IN	U3	0.80	0.80	10,605,200
Tanners Creek	IN	U4	0.86	0.86	28,043,800
Big Sandy	KY	BSU1	0.46	0.46	16,002,200
Big Sandy	KY	BSU2	0.46	0.46	51,126,800
Conesville	OH	3	0.50	0.50	3,518,200

## 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

.56

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

.56

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

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

Where,

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

Picway  
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<sub>x</sub> 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.

John M. McManus Name	
Signature <i>John M. McManus</i>	December 19, 2006 Date

Picway  
 Plant Name (from Step 1)

**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
Conesville	OH	4	0.45	0.45	44,976,190
Conesville	OH	5	0.40	0.40	25,434,200
Conesville	OH	6	0.40	0.40	24,905,400
Muskingum	OH	1	0.84	0.84	8,796,800
Muskingum	OH	2	0.84	0.84	8,181,600
Muskingum	OH	3	0.86	0.86	8,251,800
Muskingum	OH	4	0.86	0.86	8,143,200
Muskingum	OH	5	0.68	0.68	35,606,400
Picway	OH	9	0.50	0.50	3,432,400
Clinch River	VA	1	0.80	0.80	11,366,000
Clinch River	VA	2	0.80	0.80	14,350,000
Clinch River	VA	3	0.80	0.80	14,544,000
Glen Lyn	VA	51	0.40	0.40	1,581,500
Glen Lyn	VA	52	0.40	0.40	1,581,500
Glen Lyn	VA	6	0.46	0.46	5,930,000
John E Amos	WV	1	0.46	0.46	52,512,000
John E Amos	WV	2	0.46	0.46	52,031,200
John E Amos	WV	3	0.68	0.68	88,228,800
Kammer	WV	1	0.86	0.86	11,214,400
Kammer	WV	2	0.86	0.86	11,570,600
Kammer	WV	3	0.86	0.86	11,498,000
Kanawha	WV	1	0.80	0.80	10,392,600
Kanawha	WV	2	0.80	0.80	9,018,200
Mitchell	WV	1	0.50	0.50	50,415,600
Mitchell	WV	2	0.50	0.50	53,611,600
Mountaineer	WV	1	0.46	0.46	97,048,400
Sporn	WV	11	0.80	0.80	7,467,000

