State of Ohio Environmental Protection Agency

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Lazarus Government Center
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Columbus, Ohio 43215

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

12/28/2009

Certified Mail
Facility ID: 0165000006
Permit Number: P0104708
County: Pickaway

Patrick Dal Porto
Picway Power Plant
1 Riverside Plaza
Columbus, OH 43215-2373

RE: PRELIMINARY PROPOSED AIR POLLUTION CONTROL TITLE IV ACID RAIN PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Ohio EPA Preliminary Proposed Title IV permit that was issued in draft form on 5/7/2003. The comment period for the Draft permit has ended. We are now ready to submit this permit to U.S. EPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title IV permit as written, you now have the opportunity to raise your concerns. 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. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following within 14 days of your receipt of this letter:

Dana Thompson
State Implementation Plan Section
Ohio EPA, DAPC
P.O. Box 1049
Columbus, Ohio 43216-1049

If you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within 14 days of your receipt of this letter, we will forward the proposed permit to U.S. EPA for approval. All comments received will be carefully considered before proceeding with the proposed permit.

Sincerely,

Michael W. Ahern

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

Cc: Ohio EPA DAPC, Central District Office

Response to Comments

Response to comments for: Title IV Acid Rain Permit

Facility ID:	0165000006
Facility Name:	Picway Power Plant
Facility Description:	Electric services
Facility Address:	9301 U.S. Route 23 Lockbourne, OH 43137-9631 Pickaway County
Permit #:	P0104708, Renewal
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Circleville Herald on 05/07/2003. The comment period ended on 06/06/2003.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

Comments were submitted by two parties and a response was sent February 11, 2004. Those responses are listed below and attached to this document. PDF copies of the original comments in the format submitted are available upon request.

1. Michael E. Born, Shumaker, Loop & Kendrick, LLP
2. John M. McManus, American Electric Power

State of Ohio Environmental Protection Agency

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February 11, 2004

Michael E. Born
Shumaker, Loop & Kendrick, LLP
41 South High Street
Suite 2210
Columbus, Ohio 43215

Dear Mr. Born:

Thank you for your letter of June 6, 2003 commenting upon the draft Title IV Chapter 3745-103 acid rain permits issued in May by the Ohio EPA for numerous electric generating stations in Ohio. Your comments were delivered on behalf of the Environmental Committee of the Ohio Electric Utility Institute, and are supplemental to comments that member companies of the Institute may have submitted separately. We have reviewed and prepared responses to your specific comments, as listed below. A quotation or paraphrase of each comment appears in bold-face text, with our response immediately following.

GT&C #2: Most of the "SO2 Allowance Allocations" listed in the draft permits for coal fired units are inaccurate, inasmuch as they fail to include additional allowances that Clean Air Markets Division (CAMD) redistributed following the publication of the allocations currently in the Code of Federal Regulations.

The permit language is correct as written, inasmuch as it accurately states the number of allowances listed in the latest version of Table 2 in CFR Section 73.10, but you are also correct in pointing out that those numbers do not include the November 2, 2000 redistribution of unclaimed Repowering Allowances. We could have inserted another parallel line labelled "repowering line allowances" under the Table 2 allowances (as, for instance, West Virginia has done) but the permit still would not necessarily reflect the true number of allowances held in an affected unit's account, due to other types of allowance transactions that occur on a day-to-day basis. The advice we have been given by CAMD is that it is not appropriate to try to put instantaneous snapshots of account balances into permits. Instead, the following canned paragraph in our, and other states' Acid Rain permits makes it clear that actual allowances are subject to adjustment and may not match the numbers in the permit:

> The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S EPA. This situation does not necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR 72.84).

This language assures that you will have the use of all the allowances you are entitled to.

GT&C #3: ". . In its description of the permitees' obligations under the NOx averaging plans, Ohio EPA misstates the units' actual legal requirements. This is the result of trying to summarize a detailed plan in a paragraph or less. For instance, several permits suggest that a specific unit is never allowed to emit above the averaging limit. This is incorrect, as a careful review of the averaging plan itself would reveal. Ohio EPA should state in the permit that the unit is subject to an averaging plan, reference the averaging plan, and then NOT try to summarize the obligations under the plan. The NOx averaging plans under this program are simply too complex and involved to be adequately summarized by Ohio EPA. If Ohio EPA insists on some greater description, the Utilities recommend that the Agency review Step 4 "Special Provisions" Emission Limitations of the instructions for a "Phase II NOx Averaging Plan" (OMB No. 2060-0258) as a guide, and use that phrasing for this section of the permit."

Our draft language comes nearly verbatim from the "Acid Rain Permit Writer's Guide" issued by the U.S. EPA in order to supply model permit language that States may insert into their own Acid Rain permits. We changed "*[insert name of permitting authority]*" to "Ohio EPA" and we changed citations of federal rules to their equivalents in the Ohio Administrative Code wherever possible. For permits that specify an averaging plan for part of their duration and a standard plan for the remainder, we amalgamated the applicable model paragraphs. Any other changes we made are very minor and do not alter the meaning of the model text. For instance, the "Writer's Guide" (p. 10-4-2) supplies the following text for one averaging plan that runs for several years:

> *Pursuant to 40 CFR 76.11, the **[insert name of permitting authority]** approves a NOx emissions averaging plan for this unit, effective from calendar years **[insert beginning calendar year of plan]** through **[insert ending calendar year of plan.]** Under the plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of **[insert ACEL indicated for unit in column "b" of averaging plan]*** lb/mmbtu. In addition, this unit shall not have an annual heat input ***[insert phrase "less than" if ACEL is less than the standard limit indicated in column "a"; or "greater than" if ACEL is greater than the standard limit indicated in column "a"] [insert annual heat input indicated for unit in column "c"]*** mmbtu.

For the Walter C. Beckjord (B001) draft permit, we translated this as follows:

> Pursuant to 3745-103-63 of the Administrative Code, the Ohio EPA approves a NOx averaging plan for this unit, effective from calendar years 2003 through 2007. Under the plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of **1.10** lb/mmbtu. In addition, this unit shall not have an annual heat input greater than **8,310,000** mmBtu.

Likewise, the next paragraph in the Beckjord permit, beginning "Under the plan . . ." is based on paragraphs (2) and (3) on page 10-4-3 of the Writer's Guide, and the paragraph after that,

beginning "In addition. . ." is based on paragraph (5) on the same page. We have attached pertinent pages of the Writer's Guide for your information.

We believe the Writer's Guide and the draft permits correctly state the requirement for each specific unit to comply with an averaging limit on NOx emission and annual heat input, in the circumstance where a group showing of compliance cannot be made according to paragraph (D)(1)(b)(i) of OAC 3745-103-63. The specific-unit requirements must be stated, in order that specific non-compliant units can be identified when a failure of the group showing of compliance occurs.

GT&C #3: ". . . Ohio EPA has included a sentence at the end of Condition #3 that references the independent obligations under OAC Chapter 3745-14, Ohio's NOx SIP Call Program. Since this program is required to develop, issue, and administer its own permits, and those permits are required to be a completely segregable portion of the Title V permit for NOx Budget Units, the reference is illegal, unnecessary and inappropriate. This sentence should be deleted from the Acid Rain Permit."

The sentence adds no requirements that do not already exist under Chapter 3745-14. To eliminate any possible ambiguity on this point, we propose to replace this sentence with the following:

> *Compliance with this permit does not relieve the owners and operators of their duty to comply with any applicable requirements of 3745-14-01 through 3745-14-11 of the Ohio Administrative Code.*

GT&C #3: Condition #3 should be deleted in its entirety for combustion turbines, inasmuch as they are not subject to the NOx requirements of Phase II.

Although the heading is "Nitrogen Oxides (NOx) Requirements" the paragraph does not actually specify any Acid Rain requirement pertaining to NOx. In fact it says no more than the following Standard Requirement in the Acid Rain permit application for all affected units, whether coal, oil, or gas fired:

> 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.

We prefer to leave the heading in place, if only to mark the place where the *" . . . duty to comply with any applicable requirements of 3745-14-01 through 3745-14-11 . . ."* language belongs.

GT&C #5: "General Term and Condition 5 states that "The application contains additional conditions, terms and limitations that must be met and that are a part of this permit." Ohio EPA cannot and should not simply make the entire application legally enforceable. Further, U.S. EPA could revise the Acid Rain rules, 40 CFR Part 72 through 78, changing the permit terms from those reflected in the application. This could require compliance with superceded federal regulations. Instead, the permit should require

compliance with the federal rules by reference, avoiding any conflict with future rule changes."

The Ohio EPA does in fact consider the entire application to be part of the permit, and enforceable. Enforceability of the application is addressed in OAC 3745-103-08, "Permit application shield and binding effect of permit application" and elsewhere in the same chapter, and the requirement that the draft or final permit contain all the elements of the application is stated in OAC 3745-103-11(A)(1).

The application does not list specific dates for any of the applicable Parts or Sections of the Code of Federal Regulations. Consequently, any revisions to those Parts or Sections will become binding on the applicant as of their effective date in the Federal Code, and there will be no need to comply with superseded regulations. The permit does require "compliance with the federal rules by reference," as you indicate it should.

Sincerely,

Dana Thompson

cc: Cecilia Mijares, U.S. EPA Region 5
Robert Miller, U.S.EPA Clean Air Markets Division
Robert Hodanbosi, Ohio EPA/DAPC

ID: JAN 30'03 0:13 No.001 P.04

NO_X Standard Emission Limitations Compliance Plans

Description: Under the simplest of NO_X compliance plans in the Acid Rain Program, a boiler subject to 40 CFR part 76 for which the standard emission limitation compliance option is chosen must meet the standard emissions limit in lb/mmBtu established in 40 CFR 76.5, 76.6, or 76.7 for that specific type of coal fired boiler.

Permit Revision Procedure(s): Addition of a standard emission limitation NO_X compliance plan to a Phase II acid rain permit is executed through permit modification procedures under 40 CFR 72.81 (which references requirements adopted by the State under 40 CFR subpart G and 70.7(e)(4)(ii)). This process is basically identical to requirements for the issuance of a Phase II acid rain permit and includes the provisions of 40 CFR 72.80 (c) and (d), which state that a permit revision may be submitted at any time and that the terms of the acid rain permit apply until the revision is finalized.

Inclusion in Acid Rain Permit: The boilerplate language shown below is added to the NO_X portion of unit pages in the acid rain portion of the title V permit (see also the sample acid rain permit beginning on page 10-2-3). In addition, either the NO_X compliance plan is attached and incorporated as an enforceable part of the acid rain portion of the title V permit or the language in the NO_X compliance plan is reiterated in the acid rain portion of the title V permit.

Boilerplate Language: "Pursuant to 40 CFR part 76, **[name of permitting authority]** approves a NO_X standard emission limitation compliance plan for unit **[insert unit #]**. The compliance plan is effective for calendar year **[first year compliance plan is effective]** through calendar year **[last year acid rain permit is effective]**. Under the compliance plan, this unit's annual average NO_X emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under 40 CFR **[insert appropriate CFR cite and phrase from below]**

76.5(a)(1), of 0.45 lb/mmBtu for tangentially fired boilers.
76.5(a)(2), of 0.50 lb/mmBtu for wall-fired boilers.
76.6(a)(1), of 0.68 lb/mmBtu for cell burner boilers.
76.6(a)(2), of 0.86 lb/mmBtu for cyclone boilers.
76.6(a)(3), of 0.84 lb/mmBtu for wet bottom boilers.
76.6(a)(4), of 0.80 lb/mmBtu for vertically fired boilers.
76.7(a)(1), of 0.40 lb/mmBtu for tangentially fired boilers.
76.7(a)(2), of 0.46 lb/mmBtu for wall-fired boilers.

In addition, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions."

Example:[1] "Pursuant to 40 CFR part 76, the State of Mind DEP approves a NO_X standard emissions limitation compliance plan for unit 3. The NO_X compliance plan is effective beginning 2000 through 2004. Under the NO_X compliance plan, this unit's annual average NO_X emissions rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.6(a)(3), of 0.84 lb/mmBtu for wet bottom boilers.

In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions."

Misc. Notes: An initial NO_X compliance plan in which a standard emission limitation is chosen is effective beginning for calendar year 2000 and continues through the last calendar year that the acid rain permit is effective. Every subsequent standard emission limitation NO_X compliance plan submitted at the time of acid rain permit renewal will be effective for the same years that the acid rain permit is effective, including any partial years.

A State that has not incorporated by reference 40 CFR part 76 and has written a State-version of the Acid Rain Program NO_X regulation must replace the cites to the federal rule with cites to its own rule, where applicable.

The boilerplate references to 40 CFR 76.5(a)(1) and (2) are for Phase I Group 1 boilers; the references to 40 CFR 76.7(a)(1) and (2) are for Phase II Group 1 boilers.

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[1] See also sample permit with NO_X language added starting on page 10-2-3.

ID: JAN 30'03 0:14 No.001 P.06

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MAY 1 8 1998
REGULATION DEVELOPMENT BRANCH
U.S. EPA, REGION XI

NOx Emissions Averaging Compliance Plans

Description:

NOx emissions averaging is a NO_X compliance option under 40 CFR 76.11 which allows any affected units subject to a NOx emissions limit under 40 CFR 76.5, 76.6, or 76.7, under the control of the same owner and operator, and with the same designated representative, to average their NOx emissions under an approved averaging plan.

The designated representative can submit: (1) one averaging plan that runs for several years, (2) one averaging plan that designates the same plan for single, specific years (so the DR could terminate an averaging plan for a specific year, if so desired) or (3) non-identical plans for single, specific years. Each choice requires a specific type of boilerplate language in the NOx portion of the acid rain permit.

Permit Revision Procedure(s):

Addition of a NOx emissions averaging compliance plan to a Phase II acid rain permit, or changes in a plan already in a permit, are executed through permit modification procedures under 40 CFR 72.81 (which references requirements adopted by the State under 40 CFR subpart G and 70.7(e)(4)(ii)). This process is basically identical to requirements for the issuance of a Phase II acid rain permit and includes the provisions of 40 CFR 72.80 (c) and (d), which state that a permit revision may be submitted at any time and that the terms of the acid rain permit apply until the revision is finalized.

Inclusion into Acid Rain Permit:

The boilerplate language below is added to the NOx portion of unit pages in the acid rain portion of the title V permit (see also the sample acid rain permits on following pages). In addition, either (1) the Phase II NOx compliance plan and averaging plan(s) are attached to the acid rain portion of the title V permit, and made a binding and enforceable part of the permit, or (2) the language in the Phase II NOx compliance plan and averaging plan(s) (including the list of units in the averaging plan) is reiterated in the acid rain portion of the title V permit.

Boilerplate Language:

(1) There are three general types of boilerplate language for a NOx averaging plan. Only <u>one</u> of the following paragraphs A, B, or C must be utilized, depending on the length of time the plan(s) run and whether or not the plan(s) are identical:

(A) For one averaging plan that runs for several years:

*"Pursuant to 40 CFR 76.11, the **[insert name of permitting authority]** approves a NOx emissions averaging plan for this unit, effective from calendar years **[insert beginning calendar year of plan]** through **[insert ending calendar year of plan]**. Under the plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of **[insert ACEL indicated for unit in column "b" of averaging plan]** lb/mmbtu. In addition, this unit shall not have an annual heat input **[insert phrase "less than" if ACEL is <u>less</u> than the standard limit indicated in column "a"; or "greater than" if ACEL is <u>greater</u> than the standard limit indicated in column "a"] [insert annual heat input indicated for unit in column "c"]** mmBtu."*

(B) For multiple identical averaging plans, each for a single year:

*"Pursuant to 40 CFR 76.11, the **[insert name of permitting authority]** approves **[insert # of plans]** NOx emissions averaging plans for this unit. Each plan is effective for one calendar year for the years **[insert year each plan will be in effect]**. Under each plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of **[insert ACEL indicated for unit in column "b" of averaging plan]** lb/mmBtu. In addition, this unit shall not have an annual heat input **[insert phrase "less than" if ACEL is <u>less</u> than the standard limit indicated in column "a"; or "greater than" if ACEL is <u>greater</u> than the standard limit indicated in column "a"] [insert annual heat input indicated for unit in column "c"]** mmBtu."*

Important note: If the standard limit in column "a" and the ACEL in column "b" of the averaging plan are **<u>identical</u>**, then the last sentence in paragraphs (A) and (B) above should **<u>not</u>** be included in the unit page permit language for the unit in question, or, for paragraph (C) below, an "NA" should be entered in the "Minimum or Maximum" column.

(C) For multiple non-identical averaging plans, each for a single year:

*"Pursuant to 40 CFR 76.11, the **[insert name of permitting authority]** approves **[insert # of plans]** NOx emissions averaging plans for this unit. Each plan is effective for one calendar year for the years **[insert year each plan will be in effect]**. Under each plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation, and this unit shall meet the annual heat input limit listed below, for the applicable year."*

Year	ACEL (lb/mmBtu)	Heat Input Limit (mmBtu)	Minimum or Maximum

(2) For every averaging plan, insert after the language of paragraphs A, B, or C above, the following paragraph:

"Under the plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit."

(3) For any averaging plan in which more than one permitting authority has jurisdiction over the units in a plan (for instance, a multi-state averaging plan), insert after the language of paragraph (2) above, the following sentence:

"In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when ***[insert name(s) of other permitting authority(s)]*** *has also approved this averaging plan."*

(4) A unit can simultaneously be in an averaging plan and an early election plan. For such units, insert after the language of paragraph (2) (or paragraph (3), if applicable), the following paragraph:

"Notwithstanding the averaging plan described above, if this unit exceeds its applicable NOx emission limitation under 40 CFR 76.8 (early election) of ***[insert "0.45 lb/mmBtu" for tangentially fired boilers or "0.50 lb/mmBtu" for dry bottom wall-fired boilers, whichever applies]****, the early election plan for this unit shall be terminated in accordance with 40 CFR 76.8(e)(3) and the unit shall meet, beginning on the effective date of the termination, the applicable NOx emission limitation under 40 CFR 76.7. Such termination shall not terminate the averaging plan described above."*

(5) For every averaging plan, insert after the language of paragraph (2) (or paragraphs (3) or (4), if applicable), the following language:

"In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions."

Examples:[1]

Example (1): The following example is for Blue Mountain unit 4, a Phase II Group 1 tangentially fired boiler in an averaging plan whose standard limit under 40 CFR 76.7 is 0.40 lb/mmBtu. The

[1] See also sample permits with NOx language added on following pages.

averaging plan for this unit is for **multiple years for one plan**; therefore, the boilerplate from paragraph (1)(A) above is utilized, as well as standard language from paragraphs (2) and (5). Boilerplate from paragraphs (3) and (4) from above are not necessary, since all of the units in the averaging plan are under the jurisdiction of one permitting authority and unit 4 is not in an early election plan.:

"*Pursuant to 40 CFR 76.11, the State of Mind DEP approves a NOx emissions averaging plan for this unit, effective from calendar years 2000 through 2004. Under the plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of* ***0.42 lb/mmBtu****. In addition, this unit shall not have an annual heat input greater than* ***13,051,057 mmBtu****.*

Under the plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx 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 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 addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions."

Note that in this example the ACEL for Blue Mountain unit 4 of 0.42 lb/mmBtu is greater than the standard limit for that boiler of 0.40 lb/mmBtu. Therefore the heat input limit of 13,051,057 is a maximum, and the phrase "greater than" is used in the last sentence of the first paragraph of this example.

Example (2): This example is for Sheepshed unit 1, a Group 2 cyclone boiler in an averaging plan whose standard limit under 40 CFR 76.6 is 0.86 lb/mmBtu. This unit is in **multiple identical** averaging plans, each for a single year; therefore, the boilerplate language from paragraph (1)(B) above is utilized, as well as standard language from paragraphs (2) and (5). Since the units in the averaging plan are under the jurisdiction of two permitting authorities, boilerplate from paragraph (3) above is necessary. Sheepshed unit 1 is not in an early election plan; therefore, boilerplate from paragraph (4) above is not necessary.

"*Pursuant to 40 CFR 76.11, the State of Mind DEP approves five NOx emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2000, 2001, 2002, 2003, and 2004. Under each plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of* ***0.79 lb/mmBtu****. In addition, this unit shall not have an annual heat input less than* ***9,436,112 mmBtu****.*

Under the plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx 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 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 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the State of Anxiety DEP has also approved this averaging plan.

In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions."

Note that in this example, the ACEL for Sheepshed unit 1 of 0.79 lb/mmBtu is <u>less</u> than the standard limit for that boiler of 0.86 lb/mmBtu. Therefore the heat input limit of 9,436,112 is a <u>minimum</u>, and the phrase "less than" is used in the last sentence of the first paragraph of this example.

Example (3): This example is for Boneyard Canyon unit 7, a Phase II Group 1 dry bottom wall-fired boiler in an averaging plan whose standard limit under 40 CFR 76.7 is 0.46 lb/mmBtu. This unit is in multiple **non-identical** plans; therefore, the boilerplate from paragraph (1)(C) above is utilized, as well as standard language from paragraphs (2) and (5). Since the units in the averaging plan are under the jurisdiction of one permitting authority, boilerplate from paragraph (3) above is not necessary. Unit 7 is also in an early election plan; therefore, boilerplate from paragraph (4) above is necessary.

"Pursuant to 40 CFR 76.11, the State of Mind DEP approves five NOx emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2000, 2001, 2002, 2003, and 2004. Under each plan, this unit's NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation, and this unit shall meet the annual heat input limit, listed below for the applicable year.

Year	ACEL (lb/mmBtu)	Heat Input Limit (mmBtu)	Minimum or Maximum
2000	0.47	13,113,682	Maximum
2001	0.44	11,998,120	Minimum
2002	0.48	16,119,264	Maximum
2003	0.38	9,002,365	Minimum
2004	0.60	15,287,240	Maximum

Under the plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

Notwithstanding the averaging plan described above, if this unit exceeds its applicable NOx emission limitation under 40 CFR 76.8 (early election) of 0.50 lb/mmBtu for dry bottom wall-fired boilers, the early election plan for this unit shall be terminated in accordance with 40 CFR 76.8(e)(3) and the unit shall meet, beginning on the effective date of the termination, the applicable NOx emission limitation under 40 CFR 76.7. Such termination shall not terminate the averaging plan described above.

In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions."

Note that in this example, the ACELs for unit 7, as well as the heat inputs, vary from year to year. For the years in which the ACELs for unit 7 are greater than the standard limit for unit 7 of 0.46 lb/mmBtu (2000, 2002, and 2004), the heat input limits are considered maximums and are identified as such in the last column in the boilerplate table. For the years in which the ACELs for unit 7 are less than the standard limit for unit 7 of 0.46 lb/mmBtu (2001 and 2003), the heat input limits are considered minimums and are also identified as such in the boilerplate table.

> Each NOx budget . . . shall contain all applicable NOx budget trading program requirements and shall be a complete and segregable portion of the permit required under paragraph (A)(1) of this rule.

The Acid rain permit is related to the operating permit in the same way as the NOx budget permit.

It is not our general practice to add to the Title V permit any certification or exception reporting requirements related to acid rain or the NOx budget program, that are not also present in the Acid rain or NOx budget permit. If you have any specific instances to cite, of language in a Title V permit creating unnecessary or duplicative requirements, we will be happy to discuss them with you.

Our response to the comments of the OEUI Environmental Committee is attached. If you have any questions about this letter or its attachment, please feel free to contact me at 614-644-3701 or dana.thompson@epa.state.oh.us.

Sincerely,

Dana Thompson
Environmental Specialist
Division of Air Pollution Control

cc: Cecilia Mijares, U.S. EPA Region 5
Robert Miller, U.S.EPA Clean Air Markets Division
Robert Hodanbosi, DAPC

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

PRELIMINARY PROPOSED

Title IV Acid Rain Permit
OAC Chapter 3745-103

Picway Power Plant

Facility ID: 0165000006
Permit Number: P0104708
Permit Type: Renewal
Issued: 12/28/2009
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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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: 12/28/2009
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

A. Standard Terms and Conditions

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).

B. Emissions Unit Terms and Conditions

1. B004

ORIS Code: 2843

Acid Rain Program Description:

Unit #9

a) Sulfur Dioxide (SO2) 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 (NOx) Requirements

(1) Pursuant to rules 3745-103-55 through 3745-103-66 of the Administrative Code, the Ohio EPA approves a NOx emissions averaging plan for this unit, effective for calendar years 2010 through 2011, and a NOx standard emissions limitation plan for this unit, effective for calendar years 2012 through 2014. Under the averaging plan, this unit's NOx 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 NOx 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 NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx 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 NOx 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 NOx 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.

c) Comments, Notes, and Justifications

(1) None.

American Electric Power
1 Riverside Plaza
Columbus, OH 43215 2373
614 223 1000

JUN 26 2002

AMERICAN ELECTRIC POWER

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,

John M. McManus
Designated Representative

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

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: ☐ New X Revised

STEP 1

Identify the source by plant name, State, and ORIS code.

Plant Name	State	ORIS Code
Picway Plant	Ohio	2843

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d."

a	b	c	d
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
9	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

Picway Plant
Plant Name (from Step 1)

STEP 3

Read the standard requirements

Permit 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_x 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

Read the certification statement, sign, and date

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	John M. McManus	
Signature	John M. McManus	Date 6/20/02

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_X Compliance Plan

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

Plant Name	State	ORIS Code
Picway	OH	2843

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.

	ID# 9 Type DBW	ID# Type	ID# Type	ID# Type	ID# Type	ID# 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 12/31/07 (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_x Averaging Plan (include NO_x 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_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	☐	☐	☐	☐	☐	☐

Picway

Plant Name (from Step 1)

STEP 2, cont'd.

	ID# 9 / Type DBW	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / 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_x 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_x 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_x 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	16-Jan-02 Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x 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		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
.59	≤	.59

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

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

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_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.

John M. McManus Name	
Signature John M. McManus	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) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) 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

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
Sporn	WV	21	0.80	0.69	4,579,000
Sporn	WV	31	0.80	0.69	7,503,000
Sporn	WV	41	0.80	0.69	5,590,000
Sporn	WV	51	0.46	0.46	22,201,000
Cardinal	OH	1	0.68	0.65	28,716,000
Cardinal	OH	2	0.68	0.52	26,079,000
Cardinal	OH	3	0.46	0.57	30,233,000
Gavin	OH	1	0.68	0.51	81,050,000
Gavin	OH	2	0.68	0.56	90,776,000

AMERICAN ELECTRIC POWER

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,

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

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Compliance Plan

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

This submission is: [ ] New [X] Revised

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

Plant Name	State	ORIS Code
Picway	OH	2843

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.

	ID# 9 / Type DBW	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / 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 12/31/07 (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_x Averaging Plan (include NO_x Averaging form)	[X]	[ ]	[ ]	[ ]	[ ]	[ ]
(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_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Picway
Plant Name (from Step 1)

STEP 2, cont'd.

	ID# 9 / Type DBW	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / 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_x 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_x 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_x 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	December 19, 2006 Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x 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	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		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
.56	≤	.56

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

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

Picway

Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

[X] 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: John M. McManus	
Signature: John M McManus	Date: December 19, 2006

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

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
Sporn	WV	21	0.80	0.80	7,203,600
Sporn	WV	31	0.80	0.80	7,733,800
Sporn	WV	41	0.80	0.80	8,083,200
Sporn	WV	51	0.46	0.46	13,054,800
Cardinal	OH	1	0.68	0.68	37,568,400
Cardinal	OH	2	0.68	0.68	39,809,200
Cardinal	OH	3	0.46	0.46	39,209,000
Gavin	OH	1	0.68	0.68	86,301,600
Gavin	OH	2	0.68	0.68	93,845,000
Flint Creek	AR	1	0.46	0.46	37,879,000
Northeastern	OK	3313	0.40	0.40	33,560,000
Northeastern	OK	3314	0.40	0.40	35,524,000
Oklaunion	TX	1	0.46	0.46	44,826,000
Pirkey	TX	1	0.46	0.46	51,699,000
Welsh	TX	1	0.46	0.46	37,588,000
Welsh	TX	2	0.46	0.46	37,923,000
Welsh	TX	3	0.46	0.46	39,080,000