



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

12/30/2009

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: Avon Lake Power Plant
Facility ID: 0247030013
Permit Type: Renewal
Permit Number: P0104694

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

Cc: Ohio EPA DAPC, Northeast District Office



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

PROPOSED

Title IV Acid Rain Permit OAC Chapter 3745-103

Avon Lake Power Plant

Facility ID: 0247030013

Permit Number: P0104694

Permit Type: Renewal

Issued: 12/30/2009

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
Avon Lake 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: P0104694

Facility ID: 0247030013

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0247030013

Facility Description:

Application Number(s): A0036923, A0038893

Permit Number: P0104694

Permit Description: Renewal of Title IV Acid Rain Permit

Permit Type: Renewal

Issue Date: 12/30/2009

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:

Avon Lake Power Plant
33570 Lake Road
Avon Lake, OH 44012-0000

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: P0104694

Facility ID: 0247030013

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: P0104694

Facility ID: 0247030013

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: P0104694

Facility ID: 0247030013

Effective Date: To be entered upon final issuance

B. Emissions Unit Terms and Conditions



1. B010, COAL-FIRED BOILER

ORIS Code: 2836

Acid Rain Program Description:

Unit #10

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 (NO_x) Requirements

- (1) Pursuant to rules 3745-103-55 through 3745-103-66 of the Administrative Code, the Ohio EPA approves a NO_x emissions averaging plan for this unit, effective for calendar years 2010 through 2014. Under the averaging plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.60 lb/mmBtu, and this unit shall not have an annual heat input greater than 4,723,000 mmBtu.
- (2) Under the averaging plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 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 Pennsylvania has also approved this averaging plan.
- (3) In addition to the described NO_x 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_x 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.



2. B012, COAL-FIRED BOILER

ORIS Code: 2836

Acid Rain Program Description:

Unit #12

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 (NO_x) Requirements

- (1) Pursuant to rules 3745-103-55 through 3745-103-66 of the Administrative Code, the Ohio EPA approves a NO_x emissions averaging plan for this unit, effective for calendar years 2010 through 2014. Under the averaging plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.65 lb/mmBtu, and this unit shall not have an annual heat input less than 38,695,000 mmBtu.
- (2) Under the averaging plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 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 Pennsylvania has also approved this averaging plan.
- (3) In addition to the described NO_x 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_x 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.



121 Champion Way
Canonsburg, PA 15317

sshealey@rrienergy.com
Writer's Direct Dial
Number:
724-597-8232

December 23, 2009

OVERNIGHT MAIL

Dana Thompson
Ohio EPA Division of Air Pollution Control
Lazarus Government Center
122 South Front Street
Columbus, OH 43216

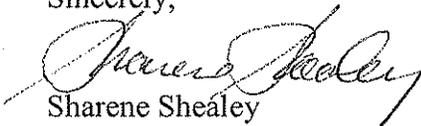
***Re: Acid Rain Program - Revised Phase II NOx Compliance Plan for Calendar
Years 2010 through 2014
Orion Power Midwest, L.P.
Avon Lake Power Plant (ORIS Code 2836)***

Dear Mr. Thompson:

In accordance with 40 CFR 76.11(b), enclosed please find 1 original and 3 copies of the revised Phase II NOx Compliance and Averaging Plans for Orion Power Midwest's Avon Lake Power Plant, located in Lorain County, Ohio. The enclosed Phase II Plans are for calendar years 2010 through 2014 and supersede Orion Power Midwest's September 2007 submittal to you.

If you have any questions regarding this submittal, please contact me at the telephone or email address listed above.

Sincerely,


Sharene Shealey
Air Quality Specialist

Attachments

cc: USEPA Clean Air Markets Division
Allegheny County Health Department (re: Cheswick Station)
PA DEP NWRO (re: New Castle Power Plant)
PA DEP SWRO (re: Elrama Power Plant)

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 source or unit, as appropriate, 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 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

(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).

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(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.

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 source 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 source 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;

Recordkeeping and Reporting Requirements, Cont'd.**STEP 3, Cont'd.**

- (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.
- (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.
- (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

Facility (Source) Name (from STEP 1)

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source 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;

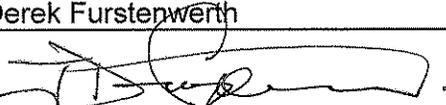
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

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

Certification

STEP 4
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 J. Derek Furstenwerth | |
| Signature  | Date 21 Dec 09 |



Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the title V permitting authority.

STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy's (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, contact EIA at (202) 586-4325 or (202) 586-2402.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a title V permit, or such longer time as provided for under the title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. **Do not send the completed form to this address.**



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 Avon Lake | OH | 2836 |
| | 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.

| | | | | | |
|--------|---------|------|------|------|------|
| ID# 10 | ID# 12 | ID# | ID# | ID# | ID# |
| Type T | Type CB | 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 0.68 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 _x Averaging Plan (include NO _x Averaging form) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input 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 _x Averaging (check the NO _x Averaging Plan box and include NO _x Averaging form) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Plant Name (from Step 1) Avon Lake

STEP 2, cont'd.

| | | | | | |
|--------|---------|------|------|------|------|
| ID# 10 | ID# 12 | ID# | ID# | ID# | ID# |
| Type T | Type CB | 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

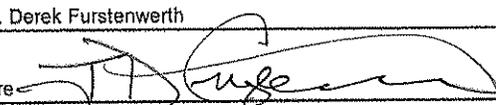
Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

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.

| | |
|---|----------------|
| Name J. Derek Furstenwerth | |
| Signature  | Date 21 Dec 09 |



Phase II NO_x Averaging Plan

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

Page 1

This submission is: New Revised

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 |
|------------|-------|-----|-------------------------------|-------------|-----------------------------------|
| Cheswick | PA | 1 | 0.45 | 0.44 | 29,100,000 |
| Elrama | PA | 1 | 0.80 | 0.57 | 4,200,000 |
| Elrama | PA | 2 | 0.80 | 0.57 | 5,130,000 |
| Elrama | PA | 3 | 0.80 | 0.57 | 4,540,000 |
| Elrama | PA | 4 | 0.46 | 0.57 | 9,500,000 |
| New Castle | PA | 3 | 0.46 | 0.50 | 4,220,000 |
| New Castle | PA | 4 | 0.46 | 0.50 | 3,860,000 |
| New Castle | PA | 5 | 0.46 | 0.50 | 6,510,000 |
| Avon Lake | OH | 10 | 0.40 | 0.60 | 4,723,000 |
| Avon Lake | OH | 12 | 0.68 | 0.65 | 38,695,000 |

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

0.56

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

0.57

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

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

Where,

- R_{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

Plant Name (from Step 1) Avon Lake

STEP 3

Mark one of the two options and enter dates.

X This plan is effective for calendar year 2010 through calendar year 2014 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

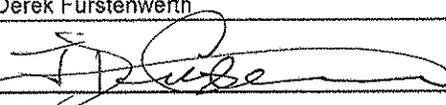
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

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 J. Derek Furstenwerth | |
| Signature  | Date 21 Dec 09 |

