

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
BUREAU OF AIR QUALITY CONTROL

-OPERATING PERMIT-

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and Section 127.21 of Chapter 127 of the rules and regulations of the Department of Environmental Resources, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

Permit No.:	OP-47-0001	Source(s) & Air Cleaning Device(s):	Oil fired boilers
Owner:	Pennsylvania Power and Light Co.	Units 11A and 11B controlled as described herein	
Address:	Two North Ninth Street Allentown, PA 18101	Location:	Montour SES Derry Township Montour County
Attention:	Mr. Reid Clemmer Senior Project Engineer		

This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning device(s) are to be:
  - a. operated in such a manner as not to cause air pollution;
  - b. in compliance with the specifications and conditions of the applicable plan approval(s);
  - c. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.

See attached for additional conditions.

Failure to comply with the conditions placed on this permit is a violation of Section 127.25. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Resources will result in suspension or revocation of this permit and/or prosecution under Section 9 of the air Pollution Control Act.

Issued: 12/27/94

~~Expires: 12/28/99~~

*for James Salvaggio by John F. Sleat*  
James Salvaggio  
Director  
Bureau of Air Quality Control

OPERATING PERMIT CONDITIONS

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COMPANY: Pennsylvania Power and Light Co.

(3) This Operating Permit includes Reasonably Available Control Technology (RACT) determinations as required by Title I provisions of the CAAA, and, 25 PA Code Sections 129.91 through 129.95 for two Auxiliary Boilers Nos. 11A and 11B with rated heat inputs of 269 MMbtu/hr each, burning No. 2 fuel oil.

(4) The expiration date shown in this Permit is for State purposes. For Federal Enforcement purposes the Operating Permit shall remain in affect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51 and approved by the US Environmental Protection Agency (EPA). The Operating Permit shall become enforceable by the US EPA upon its approval of the above as a revision to the SIP.

(5) Boilers 11A and 11B shall be restricted to a maximum capacity factor of 20% for each boiler.

(6) Maximum never to exceed NOx emissions from each boiler shall be limited to 0.15 lb/MMbtu. Annual NOx emissions shall never exceed 34 TPY from each boiler.

(7) PP&L shall perform an initial NOx compliance test on Units 11A and 11B to determine the boilers NOx emission rate. This testing shall be performed using test methods which are acceptable to the Department. Testing shall be conducted during the next scheduled Unit 1 and 2 outage, but shall not to exceed 24 months from the date of issuance of this operating permit.

(8) At least 60 days prior to the performance of the testing required by condition 7 herein, a test plan shall be submitted to the Department for evaluation. This plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(9) The Department shall be given at least 10 days advance notice of the scheduled dates for the performance of the testing required by condition 7 herein.

(10) Within sixty (60) days of the completion of the test required by condition 7 herein, two copies of a test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in the performance of the tests, all process and operating data collected during the test, a copy of all raw data, and a copy of all calculations generated during data analysis.

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(11) Company shall maintain records in accordance with the record keeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:

- (a) Data which clearly demonstrates that the annual capacity for each auxiliary boiler is equal to or less than 20%. Fuel usage or any other parameter approved by the Department may be used for this purpose.
- (b) All records shall be retained for at least 2 years and shall be available to the Department on request.

(12) Any notification required as a result of any condition herein should be directed to: Richard L. Maxwell, Jr., Chief, Engineering Services, 200 Pine Street, Williamsport, PA 17701-6510, telephone (717)327-3640.

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES

PLAN APPROVAL

Plan Approval No.: PA-47-0001A

Source(s): Pulverized bituminous  
coal-fired boilers  
Units 1 and 2

Owner: Pennsylvania Power and Light  
Co.

Air: LowNOx burner with  
Cleaning: separated overfire  
Devices: air (LNCFS Level III)

Address: Two North Ninth Street  
Allentown, PA 18101-1179

Location: Montour SES  
Derry Township,  
Montour Co.

Attention: Mr. Reid Clemmer  
Senior Project Engineer

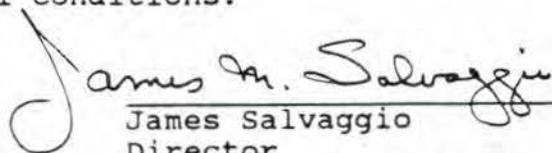
In accordance with provisions of the air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Resources, the Department on December 27, 1994 approved plans for the installation of an air cleaning device on the existing boilers, and for implementation of Reasonably Available Control Technology requirements.

~~This PLAN APPROVAL expires June 27, 1996.~~

The plan approval is subject to the following conditions:

1. The air cleaning device is to be installed in accordance with the plans submitted with the application (as approved herein).
2. Upon completion of the implementation of RACT control measures a operating permit must be obtained.

See attached for additional conditions.

  
James Salvaggio  
Director  
Bureau of Air Quality Control

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- (3) This Plan Approval amends Operating Permits Nos. 47-306-001, 47-306-003, and Plan Approval No. 47-306-003B for the incorporation of NOX/VOC Reasonably Available Control Technology (RACT) requirements of 25 PA Code Section 129.91-95. Sources covered by this Plan Approval shall also comply with the terms and conditions of Operating Permits 47-306-001 and 47-306-003.
- (4) This Plan Approval is for the installation of ABB LNCFS Level III LowNOx burners with separated over fired air on existing Combustion Engineering pulverized bituminous coal tangentially-fired utility boilers Units 1 and 2.
- (5) Implementation of the LNCFS Level III shall be as indicated in the RACT proposal but no later than May 31, 1995.
- (6) Units 1 and 2 shall each comply with the following never to exceed NOx emission rate:
- 0.50 lb/MMBtu, on a 30-day rolling average.
- The Department reserves the right to revise this emission rate based upon CEM data from Units 1 and 2. The revised emission rates will be incorporated into the Operating Permit.
- (7) (a) Continuous emission monitors for nitrogen oxides shall be operated and maintained in accordance with the Department's "Continuous Source Monitoring Manual" (Revision No. 5 - March 1993).
- (b) Continuous monitoring shall be conducted in accordance with 25 PA Code Chapter 139 and 40 CFR 75 and be approved by the Department.
- (8) Within 180 days of completing the installation of the lowNOx burner and separate overfire air system, the company shall perform stack testing on Unit 1 or 2 to determine the boiler's carbon monoxide and volatile organic compound (nonmethane hydrocarbon) emission rates. This testing shall be performed using test methods which are acceptable to the Department and must be performed at a time when the continuous NOx emission monitoring system associated with each unit is operable and functioning correctly. The Department reserves the right to require further testing on the untested unit should the need arise.

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(9) At least 60 days prior to the performance of the testing required by condition 8 herein, a test plan shall be submitted to the Department for evaluation. This plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(10) The Department shall be given at least 10 days advance notice of the scheduled dates for the performance of the testing required by condition 8 herein.

(11) Within sixty (60) days of the completion of the tests required by condition 8 herein, two copies of a test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in the performance of the tests, a copy of the NOx emission data generated during the test period by the continuous NOx emission monitoring system associated with each unit, all process and air pollution control equipment operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

(12) Company shall maintain records as follows:

(a) The Company shall maintain records in accordance with the minimum record keeping requirements of 25 PA Code Section 129.95.

(1) The records shall provide sufficient data and calculations to clearly demonstrate that the requirements of 25 PA Code Sections 129.91-94 are met.

(2) Records shall be retained for at least 2 years and shall be made available to the Department on request.

(b) All CEM reports shall be submitted to the Department within thirty (30) days after each quarter but no later than the time frame established in the Department's latest Continuous Source Monitoring Manual. The Department reserves the right to require the report submissions in floppy disk with a format acceptable to the Department.

(13) Issuance of an operating permit for Units 1 and 2 is contingent upon the LNCFS Level III system being installed, the boiler being modified and the boiler and all associated air cleaning devices subsequently being maintained and operated as specified in the application, proposal and supplemental materials submitted for Plan Approval and upon satisfactory demonstration that any air contaminants emitted from the boilers following the installation of the LNCFS Level III system are in compliance with the requirements specified in 25 PA

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Code Sections 123.11, 123.22, and 123.41 as well as in compliance with the limitations specified in, or established pursuant to any other applicable rule or regulation contained in Article III of the above Code.

(14) This Plan Approval authorizes temporary operation of the sources covered by this Plan Approval provided the following conditions are met:

(a) The Department must receive written notice from the Owner/Operator of the completion of construction and the Operator's intent to commence operation at least five (5) working days prior to the completion of construction. The notice should state when construction will be completed and when Operator expects to commence operation.

(b) Operation is authorized only to facilitate the start-up and shake-down of sources and air cleaning devices, to permit operations pending the issuance of an Operating Permit or to permit the evaluation of the sources for compliance with all applicable regulations and requirements.

(c) This condition authorizes temporary operation of the sources for a period of 180 days from the date of commencement of operation, provided the Department receives notice from the Owner/Operator pursuant to subpart (a), above.

~~(d) The Owner/Operator may request an extension is compliance with all applicable regulations and Plan Approval requirements has not been established. The extension request shall be submitted in writing at lest 15 days prior to the end of this period of temporary operation and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established.~~

~~(e) The notice submitted by the Owner/Operator pursuant to subpart (a), above, prior to the expiration of this Plan Approval, shall modify the Plan Approval expiration date. The new Plan Approval expiration date shall be 180 days from the date of written notice.~~

(15) Any notification required as a result of any condition herein should be directed to: Richard L. Maxwell, Jr., Chief, Engineering Services, 200 Pine Street, Williamsport, PA 17701-6510, telephone (717)327-3640.

