

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
SOUTHCENTRAL REGION  
AIR QUALITY CONTROL PROGRAM

MAR 17 1995

PLAN APPROVAL

APPROVAL NO.	<u>06-1024</u>	Source &	<u>Electric Generating</u>
Owner/Operator:	<u>Metropolitan Edison Co.</u>	Air	<u>Station</u>
Address:	<u>P. O. Box 16001</u>	Cleaning	<u>(See Attached)</u>
	<u>Reading, PA 19640-0001</u>	Device	
Attention:	<u>Mr. Ronald J. Toole</u>		
	<u>Vice-President-Generation</u>	Location	<u>Titus Station</u>
			<u>Cumru Township</u>
			<u>Berks County</u>

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and with Chapter 127 of the rules and regulations of the Department of Environmental Resources, the Department on MAR 9 1995 approved plans for the installation of air cleaning devices on the ~~above indicated~~ air contamination source(s).

PLAN APPROVAL expires MAY 31 1996

plan approved is subject to the following conditions:

- (1) The air cleaning devices are to be installed \_\_\_\_\_ in accordance with the plan submitted with the application (as approved herein).

(SEE THE ATTACHED ADDITIONAL CONDITIONS)

Notify the person noted below when the installation is completed so that the source(s) can be inspected for issuance of an OPERATING PERMIT.

NOTE:

Roger A. Fitterling  
Air Quality Control Program  
1005 Cross Roads Boulevard  
Reading, PA 19605  
(610) 916-0100

  
LEIF ERICSON  
Air Quality Program Manager

cc: Permits  
Southcentral Regional Office  
Lancaster District Office  
Reading District Office

Sources  
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1. Bituminous Coal Fired Boiler (Unit No. 1) (Combustion Engineering); Electrostatic Precipitator (Buell) and Low NO<sub>x</sub> Concentric Firing System Level III with close-coupled over fire air and separated over fire air (SOFA) (ABB/Combustion Eng.).
2. Bituminous Coal Fired Boiler (Unit No. 2) (Combustion Engineering); Electrostatic Precipitator (Buell) and Low NO<sub>x</sub> Concentric Firing System Level III with close-coupled over fire air and separated over fire air (SOFA) (ABB/Combustion Eng.).
3. Bituminous Coal Fired Boiler (Unit No. 3) (Combustion Engineering); Electrostatic Precipitator (Buell) and Low NO<sub>x</sub> Concentric Firing System Level III with close-coupled over fire air and separated over fire air (SOFA) (ABB/Combustion Eng.).
4. Combustion Turbine (Unit No. 4) (General Electric).
5. Combustion Turbine (Unit No. 5) (General Electric).
6. Thaw Shed Heater.
7. Coal Handling Building Heater (Weather-Rite).

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Conditions (continued):

- (2) This Plan Approval is issued for the purpose of defining the Department's NO<sub>x</sub> Reasonably Available Control Technology (RACT) determination for the sources of the company's Titus Generating Station.
- (3) This Plan Approval establishes NO<sub>x</sub> RACT for the Units 1, 2, and 3 as:
  - a) An interim NO<sub>x</sub> emission limit of 0.45 pounds per million BTU's based on hourly continuous emission monitoring data averaged on a 30 day rolling basis.
  - b) The installation and operation of Low NO<sub>x</sub> Concentric Firing System Level III (LNCFSL III) with close coupled overfired air (COFA) and separated overfire air (SOFA).
  - c) The 12-month rolling NO<sub>x</sub> emission total shall not exceed 1580 tons per unit nor a combined total of 4740 tons for the three units.
- (4) A final NO<sub>x</sub> emission limit will be determined upon evaluation of one year's worth of emissions monitoring data after the installation of the LNCFS Level III with COFA and SOFA. The final NO<sub>x</sub> emission limit will be incorporated into the Operating Permit upon its issuance.
- (5) The company shall maintain and operate continuous emission monitoring systems for opacity, ~~sulfur dioxide~~ and nitrogen oxides for Units 1, 2, and 3, in accordance with the requirements of Chapter 139 of the Rules and Regulations of the Pennsylvania Department of Environmental Resources and the Department's "Continuous Source Monitoring Manual" (Revision No. 5 March 1993).
- (6) The company shall submit quarterly monitoring reports for opacity, sulfur dioxide and nitrogen oxides of Units 1, 2, and 3, as specified in the "Continuous Source Monitoring Manual" (Revision No. 5 March 1993).
- (7) This Plan Approval establishes NO<sub>x</sub> RACT for the Units 4 and 5 as:
  - a) Unit 4
    - 1) The unit shall not operate on natural gas more than 1650 hours per calendar year and on No. 2 fuel oil more than 150 hours per calendar year.
    - 2) The company will perform annual adjustments and/or tune ups on the unit in a manner approved by the Department.

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- b) Unit 5
- 1) The unit shall not operate on natural gas more than 925 hours per calendar year and on No. 2 fuel oil more than 150 hours per calendar year.
  - 2) The company will perform annual adjustments and/or tune ups on the unit in a manner approved by the Department.
- (8) The company shall maintain a permanent record in a manner approved by the Department. The records shall contain the following information:
- a) The date of operation of each unit.
  - b) The hours of operation of each unit.
  - c) The fuel fired by each unit.
- (9) This Plan Approval establishes NO<sub>x</sub> RACT for the Thaw Shed Heater as presumptive as defined in Section 129.93(c).
- (10) This Plan Approval approves the construction of a Coal Handling Building Heater and establishes NO<sub>x</sub> RACT for this source as presumptive as defined in Section 129.93(c).
- (11) The company shall maintain records of the maintenance and operation of the Thaw Shed Heater and Coal Handling Building Heater in a method approved by the Department.
- (12) The implementation of the NO<sub>x</sub> RACT Plan as established in this Plan Approval shall be as expeditious as possible but no later than May 31, 1995.
- (13) This Plan Approval allows the company to burn the chemical cleaning rinse water generated by Units 1, 2, and 3 in the Units 1, 2, and 3, so long as, the rinse water does not significantly change:
- a) The composition of the bottom ash.
  - b) The quantity or composition of particulate matter carried out by the flue gases.
  - c) The quantity or composition of the flue gases.
- (14) Records required under this Plan Approval shall be kept for a period of five (5) years and shall be made available to the Department upon its request.
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- ~~(15) This Plan Approval includes the sources and air cleaning devices previously approved by Plan Approvals #06-306-002, #06-306-003, and #06-306-004 issued on February 15, 1973 to Metropolitan Edison Company and operated under Operating Permits #06-306-002, #06-306-003, and #06-306-004 issued on December 1, 1992 to Metropolitan Edison Company.~~
- ~~(16) This Plan Approval authorizes temporary operation of the source(s) 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 shall state when construction will be completed and when the 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 source(s) for compliance with all applicable regulations and requirements.~~
  - ~~(c) This condition authorizes temporary operation of the source(s) for a period of one hundred eighty (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 if compliance with all applicable regulations and Plan Approval requirements has not been established. The extension request shall be submitted in writing at least fifteen (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 one hundred eighty (180) days from the date of the written notice.~~

