



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

**OPERATING PERMIT**

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 Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below.

Permit No.:	<u>OP-55-0001A</u>	Source &	<u>Boilers 1A, 1B, 2A, 2B, 3, 4,</u>
Owner:	<u>Pennsylvania Power &amp; Light Company</u>	Air	<u>2 combustion turbines and</u>
		Cleaning	<u>2 diesel generators</u>
Address:	<u>Two North Ninth Street</u>	Device:	<u></u>
	<u>Allentown, PA 18101</u>		<u></u>
Attn:	<u>Linda A. Boyer</u>	Location:	<u>Sunbury SES</u>
	<u>Compliance Services Department</u>		<u>Shamokin Dam Borough</u>
			<u>Snyder County</u>

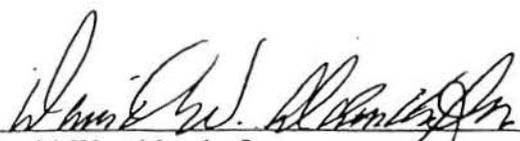
This permit is subject to the following conditions:

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) issued;
  - 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 127.444. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: JUL 17 1997

  
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 David W. Aldenderfer  
 Environmental Program Manager

cc: Harrisburg

**PERMIT CONDITIONS**  
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**COMPANY: Pennsylvania Power & Light Company**

3. This operating permit incorporates Reasonably Available Control Technology (RACT) determinations as required by the provisions of Title I of the Clean Air Act Amendments and 25 Pa. Code Sections 129.91 through 129.95 for four pulverized coal and petroleum coke arch-fired boilers (Units IA, 1B, 2A and 2B), two pulverized bituminous coal front wall-fired boilers equipped with Riley Stoker #5 CCV/Fire Burner low NOx burners and separated overfire air (Units 3 and 4), two combustion turbines (1 and 2) and 2 diesel generators. This operating permit addresses air contamination sources (Units 3 and 4).
  
5. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, Units IA, 1B, 2A and 2B shall be operated and maintained in accordance with manufacturers specifications and good air pollution control practices. Additionally, the nitrogen oxides emissions (NOx, expressed as NO<sub>2</sub>) from Units IA, 1B, 2A and 2B shall not exceed the following limitations:
  - Stack #1 (Unit IA and 113) - 1.10 pounds per million BTU of heat input, 30 day rolling average.
  - Stack #2 (Unit 2A and 2B) - 1.16 pounds per million BTU of heat input, 30 day rolling average.
  
6. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the nitrogen oxides emissions (NOx, expressed as NO<sub>2</sub>) from Units 3 and 4 shall not exceed the following limitations:
  - Unit #3 -.50 pounds per million BTU of heat input, 30 day rolling average.
  - Unit #4 -.50 pounds per million BTU of heat input, 30 day rolling average.
  
7. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the operation and maintenance of Units IA, 1B, 2A 2B, 3 and 4 in accordance with manufacturers specifications and good air pollution control practices shall be considered as RACT for the volatile organic compound emissions from the respective boilers.
  
8. Pursuant to the RACT provisions of Sections 129.91 through .129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection. RACT for both the nitrogen oxides (NOx, expressed as NO<sub>2</sub>) and volatile organic compound emissions from the 2 combustion turbines identified in condition 3 above shall be operation and maintenance in accordance with manufacturers specifications and good air pollution control practices. Additionally, the capacity factor of each of these turbines shall be less than 50% for any 12 consecutive month period.

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9. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, RACT for both the nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) and volatile organic compound emissions from the 2 diesel generators identified in condition 3 above shall be operation, and maintenance in accordance with manufacturers specifications and good air pollution control practices. Additionally, these generators shall be operated less than 500 hours in any 12 consecutive month period.
  
10. The company shall maintain records in accordance with the recordkeeping requirements of Section 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection which shall, at a minimum, include:
  - a) data which clearly demonstrates the capacity factor of the combustion turbines (which shall include, but not necessarily be limited to, the number of hours each turbine operates in each month).
  - b) the number of hours per month that each diesel generator is operated.
  - c) all nitrogen oxides emission data generated for Units 1 A, 1 B, 2A, 213, 3 and 4 using the continuous nitrogen oxides emission monitoring systems required by condition 11 herein.

All records maintained pursuant to this condition shall be retained for at least 2 years and shall be made available to the Department upon request except for the nitrogen oxides emission data generated by the continuous nitrogen oxides emission monitoring systems which shall be submitted in accordance with the applicable requirements specified in Chapter 139 of Article III of the Rules and Regulations of the Department of Environmental Protection and the Department's "Continuous Source Monitoring Manual."

11. The company shall operate and maintain continuous nitrogen oxide emissions monitoring systems on Units 1 A, 1 B, 2A, 2B, 3 and 4 in accordance with all applicable requirements specified in Chapter 139 of Article III of the Rules and Regulations of the Department of Environmental Protection and the Department's "Continuous Source Monitoring Manual."

