

MAY 15 1976

Dockets Nos. 50-277
and 50-278

Philadelphia Electric Company
ATTN: Mr. Edward G. Bauer, Jr., Esquire
Vice President and General Counsel
2301 Market Street
Philadelphia, Pennsylvania 19101

Gentlemen:

The Commission has issued the enclosed Amendment No. 21 to Facility Operating License No. DPR-44 and Amendment No. 21 to Facility Operating License No. DPR-56 for the Peach Bottom Atomic Power Station, Units 2 and 3. These amendments consist of changes to the Technical Specifications and are in response to your request dated May 13, 1976.

The amendment consists of changes to the Environmental Technical Specifications that will allow operation with less than all cooling towers in service pending completion of repairs to the cooling towers.

Copies of: (1) a Notice of Issuance of Amendment to Facility Operating License and Negative Declaration, and (2) Environmental Impact Appraisal are also enclosed for your information. Item (1) is being filed with the Office of the Federal Register for publication.

Sincerely,

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosures:

1. Amendment No. 21 to DPR-44
2. Amendment No. 21 to DPR-56
3. Federal Register Notice and Negative Declaration
4. Environmental Impact Appraisal

5/20/76

OFFICE >	ORB#3	ORB#3	C:EEB	OELD	ORB#3
SURNAME >	CParrish <i>cp</i>	EVERdery:kmb	BGrimes	JScinto	GLear <i>6</i>
DATE >	5/26/76	5/15/76	5/17/76	5/17/76	5/15/76

Philadelphia Electric Company - -

cc w/enclosures:

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Albert R. Steel, Chairman
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Peach Bottom Township
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Delta, Pennsylvania 17314

Philadelphia Electric Company
ATTN: Mr. W. T. Ullrich
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Power Station
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

PHILADELPHIA ELECTRIC COMPANY
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
DELMARVA POWER AND LIGHT COMPANY
ATLANTIC CITY ELECTRIC COMPANY

DOCKET NO. 50-277

PEACH BOTTOM ATOMIC POWER STATION, UNIT 2

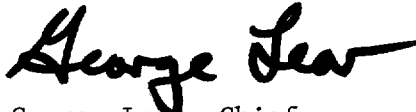
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 21
License No. DPR-44

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Philadelphia Electric Company, Public Service Electric and Gas Company, Delmarva Power and Light Company, and Atlantic City Electric Company, (the licensees) dated May 13, 1976, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations; and
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.
 - E. After weighing the environmental aspects involved, the issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the
Technical Specifications

Date of Issuance: **MAY 1 5 1976**

ATTACHMENT TO LICENSE AMENDMENT NO. 21
TO THE ENVIRONMENTAL TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-44
DOCKET NO. 50-277

Replace pages 5 and 5a with the attached revised pages. No change has been made to Page 5.

PBAPS

2.0 PROTECTION LIMITS

2.1 Thermal

Objective

To minimize adverse effects on the aquatic biota in the Conowingo Pond which could result from the increase in water temperature.

Specification

All three cooling towers shall be operated whenever Unit 2 or Unit 3 is operating at or above 20% of rated thermal power. For purposes of maintenance or repair, one cooling tower may be inoperable for a period not to exceed 48 hours. Such a shutdown shall be considered routine if the average flow of the Susquehanna River through Conowingo Pond as calculated daily exceeds 10,000 cfs and shall be reported as per Section 7.4.1. Cooling tower inoperability shall be considered an Environmental Deviation and shall be reported as per Section 7.4.2 if a) more than one tower is affected, b) the average flow of the Susquehanna River through Conowingo Pond as calculated daily is less than 10,000 cfs or c) full operation of all towers is not regained within 48 hours.

This restriction does not preclude operation for purpose of testing and studies required by the certifications issued by the Commonwealth of Pennsylvania dated June 12, 1973 for Unit 2 and the further certification dated May 8, 1974 for Unit 3.

3.0 MONITORING REQUIREMENTS

3.1 Thermal

Objective

To assure that the water temperatures in the Conowingo Pond are not increased to a level that adverse effects on the aquatic biota would result.

Specification

The bulk temperature of the condenser inlet water and of the water discharged to Conowingo Pond from the discharge canal shall be monitored continuously. Temperatures shall be recorded and shall be transmitted to the PBAPS control room. For purposes of maintenance, the temperature monitoring system may be inoperable for a period not to exceed 7 days.

Thermal impact upon Conowingo Pond shall be periodically monitored and reported as specified in Section 6.3.

Specification

The following specification expires at midnight on July 15, 1976:

Notwithstanding the other provisions of this specification, operation at power levels up to 100% of licensed power of Units 2 and 3 is permissible when one or more of the cooling towers are unavailable provided that (1) the provisions of paragraphs A, B and C of Exhibit 1 of the "Stipulation" between the licensee and the Commonwealth of Pennsylvania, dated August 12, 1975 are met, and (2) that Unit 2 or 3 shall not be operated above 20% power when the average flow of the Susquehanna River through Conowingo Pond as calculated daily, is less than 15,000 cfs unless at least two cooling towers are in operation. Such operation is permissible to the extent that it is not inconsistent with the existing National Pollutant Discharge Elimination System Permit.

Bases

A cooling tower shall be considered operable if its lift pump and 10 of the 11 cooling fans are operable.

The average flow of the Susquehanna River through Conowingo Pond will be calculated daily using predicted Holtwood Dam, Muddy Run, and Conowingo Dam operation and flows.

Specification

When one or more of the cooling towers are not in operation, thermal plume mapping, as described in Section 6.3.a of these specifications, shall be performed at least once per week. The results of this thermal mapping shall be submitted to the NRC in monthly reports along with applicable data on river flows, heat discharged from the station and the number of cooling towers in operation. Hourly measurements of the bulk temperature of the water discharged to Conowingo Pond from the discharge canal shall be recorded notwithstanding the maintenance provisions stated above.

Bases

As indicated in "Predicted Prototype Temperature Distribution in Conowingo Pond," prepared for the Philadelphia Electric Company by the Bechtel Power Corporation in July, 1973, adherence to this specification will assure, in essentially all instances, compliance to the thermal criteria of the Maryland Water Quality Standard.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

PHILADELPHIA ELECTRIC COMPANY
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
DELMARVA POWER AND LIGHT COMPANY
ATLANTIC CITY ELECTRIC COMPANY

DOCKET NO. 50-278

PEACH BOTTOM ATOMIC POWER STATION, UNIT 3

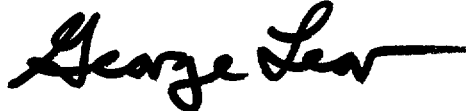
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 21
License No. DPR-56

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Philadelphia Electric Company, Public Service Electric and Gas Company, Delmarva Power and Light Company, and Atlantic City Electric Company (the licensees), dated May 13, 1976, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations; and
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.
 - E. After weighing the environmental aspects involved, the issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the
Technical Specifications

Date of Issuance: **MAY 1 5 1976**

ATTACHMENT TO LICENSE AMENDMENT NO. 21

TO THE ENVIRONMENTAL TECHNICAL SPECIFICATIONS

FACILITY OPERATING LICENSE NO. DPR-56

DOCKET NO. 50-278

Replace pages 5 and 5a with the attached revised pages. No change has been made to Page 5.

PBAPS

2.0 PROTECTION LIMITS

2.1 Thermal

Objective

To minimize adverse effects on the aquatic biota in the Conowingo Pond which could result from the increase in water temperature.

Specification

All three cooling towers shall be operated whenever Unit 2 or Unit 3 is operating at or above 20% of rated thermal power. For purposes of maintenance or repair, one cooling tower may be inoperable for a period not to exceed 48 hours. Such a shutdown shall be considered routine if the average flow of the Susquehanna River through Conowingo Pond as calculated daily exceeds 10,000 cfs and shall be reported as per Section 7.4.1. Cooling tower inoperability shall be considered an Environmental Deviation and shall be reported as per Section 7.4.2 if a) more than one tower is affected, b) the average flow of the Susquehanna River through Conowingo Pond as calculated daily is less than 10,000 cfs or c) full operation of all towers is not regained within 48 hours.

This restriction does not preclude operation for purpose of testing and studies required by the certifications issued by the Commonwealth of Pennsylvania dated June 12, 1973 for Unit 2 and the further certification dated May 8, 1974 for Unit 3.

3.0 MONITORING REQUIREMENTS

3.1 Thermal

Objective

To assure that the water temperatures in the Conowingo Pond are not increased to a level that adverse effects on the aquatic biota would result.

Specification

The bulk temperature of the condenser inlet water and of the water discharged to Conowingo Pond from the discharge canal shall be monitored continuously. Temperatures shall be recorded and shall be transmitted to the PBAPS control room. For purposes of maintenance, the temperature monitoring system may be inoperable for a period not to exceed 7 days.

Thermal impact upon Conowingo Pond shall be periodically monitored and reported as specified in Section 6.3.

Specification

The following specification expires at midnight on July 15, 1976:

Notwithstanding the other provisions of this specification, operation at power levels up to 100% of licensed power of Units 2 and 3 is permissible when one or more of the cooling towers are unavailable provided that (1) the provisions of paragraphs A, B and C of Exhibit 1 of the "Stipulation" between the licensee and the Commonwealth of Pennsylvania, dated August 12, 1975 are met, and (2) that Unit 2 or 3 shall not be operated above 20% power when the average flow of the Susquehanna River through Conowingo Pond as calculated daily, is less than 15,000 cfs unless at least two cooling towers are in operation. Such operation is permissible to the extent that it is not inconsistent with the existing National Pollutant Discharge Elimination System Permit.

Bases

A cooling tower shall be considered operable if its lift pump and 10 of the 11 cooling fans are operable.

The average flow of the Susquehanna River through Conowingo Pond will be calculated daily using predicted Holtwood Dam, Muddy Run, and Conowingo Dam operation and flows.

Specification

When one or more of the cooling towers are not in operation, thermal plume mapping, as described in Section 6.3.a of these specifications, shall be performed at least once per week. The results of this thermal mapping shall be submitted to the NRC in monthly reports along with applicable data on river flows, heat discharged from the station and the number of cooling towers in operation. Hourly measurements of the bulk temperature of the water discharged to Conowingo Pond from the discharge canal shall be recorded notwithstanding the maintenance provisions stated above.

Bases

As indicated in "Predicted Prototype Temperature Distribution in Conowingo Pond," prepared for the Philadelphia Electric Company by the Bechtel Power Corporation in July, 1973, adherence to this specification will assure, in essentially all instances, compliance to the thermal criteria of the Maryland Water Quality Standard.

ENVIRONMENTAL IMPACT APPRAISAL
BY THE DIVISION OF OPERATING REACTORS

SUPPORTING AMENDMENTS NO. 21
TO DPR-44 AND DPR-56

DOCKETS NOS. 50-277 AND 50-278

PHILADELPHIA ELECTRIC COMPANY

PEACH BOTTOM ATOMIC POWER STATION,
UNITS NOS. 2 AND 3

ENVIRONMENTAL IMPACT APPRAISAL

1. Description of Proposed Action

By letter dated May 13, 1976, the Philadelphia Electric Company (PECO) submitted proposed changes to the Environmental Technical Specifications (Appendix B) to Facility Operating Licenses DPR-44 and DPR-56. PECO has requested that the requirements of Section 2.1 of Appendix B be modified to permit operation of the Peach Bottom Units with less than all cooling towers in service, pending completion of repairs to the cooling towers. Such operation would comply with the applicable Pennsylvania and Maryland thermal water quality limitations and would be necessary for only a short period. The modified specification will expire July 15, 1976.

2. Environmental Impacts of the Proposed Action

No significant environmental impacts would result from short term operation of Peach Bottom Units Nos. 2 and 3 with less than all cooling towers in operation, provided that the requirements imposed by the Commonwealth of Pennsylvania to insure compliance with Pennsylvania and Maryland thermal water quality criteria are met. The limitations imposed by the Commonwealth of Pennsylvania include temperature limitations on thermal discharges to the Conowingo Pond ^{1/} and are in accordance with the National Pollution Discharge Elimination System Permit No. PA0009733, issued for the facilities on December 31, 1974 by the U. S. Environmental Protection Agency.

1/ "Stipulation Between Commonwealth of Pennsylvania, Environmental Hearing Board, and the Philadelphia Electric Company", dated August 12, 1975.

Additionally, the flow of the Susquehanna River through Conowingo Pond is above average during the period when more than one cooling tower is not in operation and will provide considerable dilution of the heated discharge from the facility. Specification 2.1 is conditioned such that power levels above 20% are not permitted without at least two cooling towers in operation unless river flow is above 15,000 cfs.

Ambient river temperatures during the period when more than one cooling tower is expected to be out of operation are normally below the maximum summer temperature that would subject organisms to lethal temperatures within the mixing zone.

During the period of this specification change, PECO will perform additional reporting of thermal monitoring data of the Conowingo Pond as specified in a letter from Commonwealth of Pennsylvania, Department of Environmental Resources to Philadelphia Electric Company, dated May 13, 1976. The specification change also requires that when one or more of the cooling towers are not in operation, additional thermal plume mapping will be performed once per week.

3. Conclusion and Basis for Negative Declaration

On the basis of the foregoing analyses, it is concluded that there will be no significant environmental impact attributable to the proposed action and that no impact other than those already described in the Commission's Final Environmental Statement for the Peach Bottom Atomic Power Station Units 2 and 3, dated April, 1973 will result. It is further concluded that no environmental impact statement for the proposed action need be prepared and that a negative declaration to this effect is appropriate.

Dated: **MAY 15 1976**

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-277 AND 50-278

PHILADELPHIA ELECTRIC COMPANY
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
DELMARVA POWER AND LIGHT COMPANY
ATLANTIC CITY ELECTRIC COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

AND

NEGATIVE DECLARATION

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 21 and 21 to Facility Operating Licenses Nos. DPR-44 and DPR-56, respectively, issued to Philadelphia Electric Company, Public Service Electric and Gas Company, Delmarva Power and Light Company, and Atlantic City Electric Company, which revised Technical Specifications for operation of the Peach Bottom Atomic Power Station, Units 2 and 3, located in Peach Bottom, York County, Pennsylvania. The amendments are effective as of their date of issuance.

The amendments consist of changes to the Environmental Technical Specifications that will allow operation with less than all cooling towers in service pending completion of repairs to the cooling towers.

The application for the amendments comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations to 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments were not required since the amendments do not involve a significant hazards consideration.

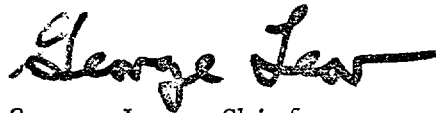
The Commission has prepared an environmental impact appraisal for the revised Technical Specifications and has concluded that an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the proposed action other than that which has already been predicted and described in the Commission's Final Environmental Statement for the Peach Bottom Atomic Power Station, Units 2 and 3 published in April 1973, and that a negative declaration to this effect is appropriate.

For further details with respect to this action, see (1) the application for amendments dated May 13, 1976, (2) Amendment No. 21 to License No. DPR-44, and (3) Amendment No. 21 to License No. DPR-56. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Martin Memorial Library, 159 E. Market Street, York, Pennsylvania 17401.

A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 15th day of May, 1976.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors