

Dockets Nos. 50-277  
and 50-278

JULY 26 1978

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

Gentlemen:

Distribution

✓ Docket  
ORB #3  
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BJones (8)  
BScharf (10)  
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~~AEsteen~~  
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BHarless  
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DRoss  
RBallard  
TBAburnathy  
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The Commission has issued the enclosed Amendments Nos. 44 and 44 to Facility Operating Licenses Nos. DPR-44 and DPR-56 for the Peach Bottom Atomic Power Station, Units Nos. 2 and 3. These amendments consist of changes to the Technical Specifications and are in response to your request dated April 22, 1977.

These amendments revise the Environmental Technical Specifications by deleting Sections 6.1.b, 6.1.c and 6.1.d, which involve special study programs related to impingement, entrainment and thermal tolerance of organisms.

These amendments do not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. They do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin, and therefore do not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

Copies of the Environmental Impact Appraisal and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by  
George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors

*Cons I*  
*R*

Enclosures and ccs: See page 2

OFFICE →		ORB #3 SSheppard	ORB #3 DVerrelli:mjf	OELD CUTCHIN	ORB #3 GLear
SURNAME →					
DATE →		3/17/78	3/20/78	7/12/78	7/24/78



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

July 26, 1978

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and 50-278

Philadelphia Electric Company  
ATTN: Mr. Edward G. Bauer, Jr., Esquire  
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2301 Market Street  
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Sincerely,

A handwritten signature in cursive script that reads "George Lear".

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

Enclosures and ccs: See page 2

Philadelphia Electric Company

- 3 -

Enclosures:

1. Amendment No. 44 to DPR-44
2. Amendment No. 44 to DPR-56
3. Environmental Impact Appraisal
4. Notice

cc w/enclosures:

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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 NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 44  
License No. DPR-44

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Philadelphia Electric Company, et al, (the licensee) dated April 22, 1977, 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;
  - 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; and
  - E. 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.

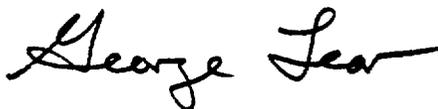
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. DPR-44 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 44, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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: July 26, 1978

ATTACHMENT TO LICENSE AMENDMENT NO. 44

FACILITY OPERATING LICENSE NO. DPR-44

DOCKET NO. 50-277

Revise Appendix B Technical Specifications as follows:

Remove pages 34, 35, 36, 37, and 38, and replace with identically numbered pages that are intentionally blank.

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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. 50-278

PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 44  
License No. DPR-56

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Philadelphia Electric Company, et al, (the licensee) dated April 22, 1977, 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;
  - 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; and
  - E. 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.

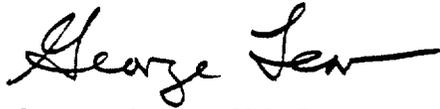
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. DPR-56 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 44, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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: July 26, 1978

ATTACHMENT TO LICENSE AMENDMENT NO. 44

FACILITY OPERATING LICENSE NO. DPR-56

DOCKET NO. 50-278

Revise Appendix B Technical Specifications as follows:

Remove pages 34, 35, 36, 37 and 38, and replace with identically numbered pages that are intentionally blank.

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

ENVIRONMENTAL IMPACT APPRAISAL BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENTS NOS. 44 AND 44 TO  
FACILITY OPERATING LICENSE NOS. DPR-44 AND DPR-56

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

PEACH BOTTOM ATOMIC POWER STATION

DOCKET NOS. 50-277 AND 50-278

Introduction

By letter dated April 22, 1977, the Philadelphia Electric Company (PECO or licensee) advised the Commission that certain special study programs, i.e., those pertaining to impingement, entrainment, and thermal tolerance of organisms, had been completed and should be terminated. PECO's justification for termination is that the purpose of each of the studies has been satisfied and no significant impacts have been detected which are attributable to impingement, entrainment or thermal discharges. The proposed amendment involves termination of special monitoring programs only; there are no changes to thermal discharge limits, or routine surveillance requirements.

Environmental Impacts of Proposed Action

The current Environmental Technical Specifications for Peach Bottom Atomic Power Station Units Nos. 2 and 3 include the requirements to conduct special study programs which are to be terminated upon agreement by PECO and the Commission that the intended purpose of the study has been satisfied. A comprehensive study of the data collected as part of the environmental technical specification program for Unit 2 and 3 of the Peach Bottom Atomic Power Station was conducted for the U. S. Nuclear Regulatory Commission by Oak Ridge National Laboratory (ORNL). The study included an analysis of both the hydrothermal and ecological monitoring data collected from 1967 through 1976. The results of this program are published in NUREG/TM-69 and are used later in this evaluation.

ETS 6.1.b Impingement of Organisms

The FES concluded that standing crops of adult fishes may be reduced due to impingement. Thus a special study program on impingement of organisms was conducted by PECO to determine species composition and quantity of fishes impinged on the circulating water screens. The results of this study would

be used by the staff to assess the reduction in standing crops. The results of the ORNL study did not detect a reduction of standing crops. In a publication of the Transactions of the American Fisheries Society<sup>1</sup>, it was concluded that impact of the station due to impingement amounted to the equivalent of a few anglers; and, as the fish population of Conowingo Pond has withstood the impact of many anglers, it is not expected that the plant can have a significant impact. The staff concurs with the findings of both these studies and concludes that the objectives of the special study have been satisfied and the results initiated that impingement impact is insignificant. This conclusion justifies the termination of this monitoring program and its deletion from the Technical Specifications.

#### ETS 6.1.c Entrainment of Planktonic Organisms

The FES suggested that the standing crops of zooplankton (microscopic animals) may be lowered from entrainment through the plant and that a reduction in phytoplankton (microscopic plants) production may occur. The ORNL report detected no significant differences in standing crops of zooplankton or in chlorophyll a concentrations (phytoplankton). The staff has reviewed that report and the similar findings presented in the licensee's annual operating reports and concludes that the plant is not having a significant impact on zooplankton and phytoplankton due to entrainment. On the basis of these findings we conclude that the objectives of the study have been satisfied and that the impact of entrainment is less than that suggested in the FES. Therefore, this specification is no longer necessary and should be deleted.

#### ETS 6.1.d Thermal Tolerance of Organisms

The FES concluded that thermal effects of the plant may have a significant impact on the aquatic biological community of the pond. As a result of this conclusion the environmental Technical Specifications require that thermal tolerance studies of organisms be conducted. Our review of the data the licensee has submitted in their annual reports indicates that operation of the station has not resulted in significant impacts to the biological community. The ten species of fish of fairly broad taxa are adequate for impact assessment purposes. Further, we conclude from our review of the licensee's thermal tolerance study that they have satisfied the intent of the specifications. These findings justify the deletion of this specification.

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<sup>1</sup> Mathur, Dilip, P.G. Heisey and N. C. Magnuson, TRANSACTIONS OF THE AMERICAN FISHERIES SOCIETY, Vol. 106, No. 3, May 1977.

Conclusion

On the basis of the foregoing analysis, it is concluded that there will be no environmental impact attributable to the proposed action other than has already been predicted and described in the Commission's FES for Peach Bottom Atomic Power Station Units 2 and 3. Having made this conclusion, the Commission has 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: July 26, 1978

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-277 AND 50-278PHILADELPHIA ELECTRIC COMPANY, ET ALNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES  
AND  
NEGATIVE DECLARATION

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 44 and 44 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 Nos. 2 and 3, located in Peach Bottom, York County, Pennsylvania. The amendments are effective as of the date of issuance.

These amendments revise the Environmental Technical Specifications by deleting Sections 6.1.b, 6.1.c and 6.1.d, which involve special study programs related to impingement, entrainment and thermal tolerance of organisms.

The application for the amendment complies 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 in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments was 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 action other than that which has already been predicted and described in the Commission's Final Environmental Statement for the facility dated April 1973.

For further details with respect to this action, see (1) the application for amendments dated April 22, 1977, (2) Amendments No. 44 and 44 to Licenses DPR-44 and DPR-56, and (3) the Commission's related Environmental Impact Appraisal. 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 Government Publications Section, State Library of Pennsylvania, Education Building, Commonwealth and Walnut Streets, Harrisburg, Pennsylvania 17126. A copy of items (2) and (3) may be obtained upon request addresses to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 26th day of July 1978.

FOR THE NUCLEAR REGULATORY COMMISSION



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