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. 56
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 July 16, 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;

   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. 56, 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

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 22, 1979

ATTACHMENT TO LICENSE AMENDMENT NO. 56

FACILITY OPERATING LICENSE NO. DPR-56

DOCKET NO. 50-278

Replace the following pages of the Appendix "B" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Remove	Insert
39	39
40	40

6.2 Chemical

6.2.a Biocides

Objective

To determine the optimum chlorination program which would minimize chlorine usage and releases, while keeping the heat exchanger equipment in serviceable condition.

Specification

A study will be made to determine minimum rates and duration of chlorine addition. The study will cover the period of the first year of one unit commercial operation.

During the study, the requirements for chlorine addition versus water quality will be monitored. The effectiveness and necessity of chlorine treatment will be gauged against heat exchanger performance.

Bases

The chlorine demand of the intake water does not normally change significantly from day to day, although significant seasonal variations do occur. Adequate monitoring can be achieved under steady state flow conditions by controlling the chlorine addition rate and daily monitoring of the residual chlorine in the discharge.

Results of this study will be reported as per Section 7.4.

6.2.b Heavy Metals (deleted)

6.3.a Thermal Plume Mapping

Objective

To determine the extent of the thermal plume in the Conowingo Pond and in the discharge canal resulting from the heated circulating water discharge, and to select a representative measurement that will accurately predict pond conditions.

Specification

A thermal monitoring program will be conducted essentially as described in Supplement No. 2 to "Applicant's Environmental Report-Operating License Stage" in the answer to question 24. Isothermal plots of the receiving waters shall be produced at 1°F intervals to show the results of plant operations under various conditions of load, stream flow, operations of hydroelectric plants, meteorological conditions and ambient stream temperatures. Such plots shall indicate both surface and depth temperature distribution and shall be determined by model tests and prototype monitoring. A minimum number of continuously monitoring temperature sensors shall be determined to accurately predict pond conditions. Twice a month, weather conditions permitting, data will be collected utilizing a motor boat mounted temperature recorder.

Discharge canal water temperatures shall be monitored monthly using the temperature measurement points at the outlet of the discharge pond into the discharge canal, at the discharge point of each cooling tower, and at the discharge point to Conowingo Pond.

Bases

Hydraulic model tests have been completed to predict the extent of the thermal plume. However, the model does not account for the effect of meteorological conditions and other phenomena occurring in the prototype. Thermal mapping of the prototype will be performed with one and two unit operation.

The results shall be reported to the Commonwealth of Pennsylvania Department of Environmental Resources as required under the Industrial Waste Permit No. 6601211. The results shall be reported to the NRC as per Section [illegible] except that reporting shall be on a monthly basis.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-277 AND 50-278

PHILADELPHIA ELECTRIC COMPANY, ET AL.

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 56 and 56 to Facility Operating License Nos. DPR-44 and DPR-56, 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 (the facility) located in York County, Pennsylvania. The amendments are effective as of the date of issuance.

The amendments delete the Appendix B Technical Specifications relating to heavy metal sampling.

The application for the amendments 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 determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

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For further details with respect to this action, see (1) the application for amendment dated July 16, 1976, (2) Amendment Nos. 56 and 56 to License Nos. DPR-44 and DPR-56, and (3) the Commission's letter dated
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. 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 22 day of August 1979.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

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. 56
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 July 16, 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;

   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. 56, 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

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 22, 1979

ATTACHMENT TO LICENSE AMENDMENT NO. 56

FACILITY OPERATING LICENSE NO. DPR-44

DOCKET NO. 50-277

Replace the following pages of the Appendix "B" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

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Objective

To determine the optimum chlorination program which would minimize chlorine usage and releases, while keeping the heat exchanger equipment in serviceable condition.

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A study will be made to determine minimum rates and duration of chlorine addition. The study will cover the period of the first year of one unit commercial operation.

During the study, the requirements for chlorine addition versus water quality will be monitored. The effectiveness and necessity of chlorine treatment will be gauged against heat exchanger performance.

Bases

The chlorine demand of the intake water does not normally change significantly from day to day, although significant seasonal variations do occur. Adequate monitoring can be achieved under steady state flow conditions by controlling the chlorine addition rate and daily monitoring of the residual chlorine in the discharge.

Results of this study will be reported as per Section 7.4.

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A thermal monitoring program will be conducted essentially as described in Supplement No. 2 to "Applicant's Environmental Report-Operating License Stage" in the answer to question 24. Isothermal plots of the receiving waters shall be produced at 1°F intervals to show the results of plant operations under various conditions of load, stream flow, operations of hydroelectric plants, meteorological conditions and ambient stream temperatures. Such plots shall indicate both surface and depth temperature distribution and shall be determined by model tests and prototype monitoring. A minimum number of continuously monitoring temperature sensors shall be determined to accurately predict pond conditions. Twice a month, weather conditions permitting, data will be collected utilizing a motor boat mounted temperature recorder.

Discharge canal water temperatures shall be monitored monthly using the temperature measurement points at the outlet of the discharge pond into the discharge canal, at the discharge point of each cooling tower, and at the discharge point to Conowingo Pond.

Bases

Hydraulic model tests have been completed to predict the extent of the thermal plume. However, the model does not account for the effect of meteorological conditions and other phenomena occurring in the prototype. Thermal mapping of the prototype will be performed with one and two unit operation.

The results shall be reported to the Commonwealth of Pennsylvania Department of Environmental Resources as required under the Industrial Waste Permit No. [illegible]. The results shall be reported to the NRC as per Section [illegible], except that reporting shall be on a monthly basis.