

May 20, 1993

Mr. George A. Hunger, Jr.  
Director-Licensing, MC 52A-5  
Philadelphia Electric Company  
Nuclear Group Headquarters  
Correspondence Control Desk  
P.O. Box No. 195  
Wayne, Pennsylvania 19087-0195

Dear Mr. Hunger:

SUBJECT: SHUTDOWN MODE TECHNICAL SPECIFICATION DEFINITION FOR PEACH BOTTOM  
ATOMIC POWER STATION, UNITS 2 AND 3 (TAC NOS. M86021 AND M86022)

The Commission has issued the enclosed Amendments Nos. 174 and 177 to Facility Operating License Nos. DPR-44 and DPR-56 for the Peach Bottom Atomic Power Station, Unit Nos. 2 and 3. These amendments consist of changes to the Technical Specifications in response to your application dated March 11, 1993, as supplemented by letter dated May 13, 1993.

These amendments clarify the Technical Specification Section 1.0 definition of the term "Shutdown Mode" to reflect as-built facility design.

You are requested to inform the staff when you have implemented the provisions of these amendments.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,  
/S/

Joseph W. Shea, Project Manager  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 174 to DPR-44
2. Amendment No. 177 to DPR-56
3. Safety Evaluation

cc w/enclosures:

See next page

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NAME	: MO'Brien	: JShea	: CPW	: RJones	: JWermiel	: CMiller	:
DATE	: 5/1/93	: 5/19/93	: 04/16/93	: 04/15/93	: 04/15/93	: 5/19/93	:

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

May 20, 1993

Docket Nos. 50-277  
and 50-278

Mr. George A. Hunger, Jr.  
Director-Licensing, MC 52A-5  
Philadelphia Electric Company  
Nuclear Group Headquarters  
Correspondence Control Desk  
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You are requested to inform the staff when you have implemented the provisions of these amendments.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

A handwritten signature in black ink, appearing to read "JWS", is written over the typed name of Joseph W. Shea.

Joseph W. Shea, Project Manager  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 174 to DPR-44
2. Amendment No. 177 to DPR-56
3. Safety Evaluation

cc w/enclosures:  
See next page

Mr. George A. Hunger, Jr.  
Philadelphia Electric Company

Peach Bottom Atomic Power Station,  
Units 2 and 3

cc:

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Sr. V.P. & General Counsel  
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Philadelphia Electric Company  
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ATTN: Regulatory Engineer, A1-2S  
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Resident Inspector  
U.S. Nuclear Regulatory Commission  
Peach Bottom Atomic Power Station  
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Bureau of Radiation Protection  
Pennsylvania Department of  
Environmental Resources  
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Harrisburg, Pennsylvania 17120

Board of Supervisors  
Peach Bottom Township  
R. D. #1  
Delta, Pennsylvania 17314

Public Service Commission of Maryland  
Engineering Division  
ATTN: Chief Engineer  
231 E. Baltimore Street  
Baltimore, MD 21202-3486

Mr. Richard McLean  
Power Plant and Environmental  
Review Division  
Department of Natural Resources  
B-3, Tawes States Office Building  
Annapolis, Maryland 21401



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. 174  
License No. DPR-44

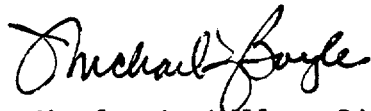
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Philadelphia Electric Company, et. al. (the licensee) dated March 11, 1993, as supplemented by letter dated May 13, 1993, complies with the standards and requirements of the Atomic Energy Act 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 or 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. 174, are hereby incorporated in the license. PECO shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
for Charles L. Miller, Director  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 20, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 174

FACILITY OPERATING LICENSE NO. DPR-44

DOCKET NO. 50-277

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised areas are indicated by marginal lines.

Remove

7

Insert

7

## PBAPS

1.0 DEFINITIONS (Cont'd)

outage, the required surveillance testing need not be performed until the next regularly scheduled outage.

Reportable Event - A reportable event shall be any of those conditions specified in Section 50.73 to 10 CFR Part 50.

Run Mode - In this mode the reactor system pressure is at or above 850 psig and the reactor protection system is energized with APRM protection (excluding the 15% high flux trip) and RBM interlocks in service.

Safety Limit - The safety limits are limits below which the reasonable maintenance of the cladding and primary systems are assured. Exceeding such a limit requires unit shutdown and review by the Nuclear Regulatory Commission before resumption of unit operation. Operation beyond such a limit may not in itself result in serious consequences, but it indicates an operational deficiency subject to regulatory review.

Secondary Containment Integrity - Secondary Containment integrity means that the reactor building is intact and the following conditions are met:

1. At least one door in each access opening is closed.
2. The standby gas treatment is operable.
3. All Reactor Building ventilation system automatic isolation valves are operable or deactivated in the isolation position.

Shutdown - The reactor is in a shutdown condition when the reactor mode switch is in the shutdown mode position and no core alterations are being performed.

Shutdown Mode - Placing the mode switch to the shutdown position initiates a reactor scram. After about 2 seconds, this SCRAM signal is bypassed. The SCRAM logic cannot be reset until a 10 second timer is complete. The SCRAM can then be reset to restore the normal valve line-up in the control rod drive hydraulic system.



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. 177  
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 March 11, 1993, as supplemented by letter dated May 13, 1993, 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 or 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.177, are hereby incorporated in the license. PECO shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



*for* Charles L. Miller, Director  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 20, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 177

FACILITY OPERATING LICENSE NO. DPR-56

DOCKET NO. 50-278

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised areas are indicated by marginal lines.

Remove

7

Insert

7

## PBAPS

1.0 DEFINITIONS (Cont'd)

outage, the required surveillance testing need not be performed until the next regularly scheduled outage.

Reportable Event - A reportable event shall be any of those conditions specified in Section 50.73 to 10 CFR Part 50.

Run Mode - In this mode the reactor system pressure is at or above 850 psig and the reactor protection system is energized with APRM protection (excluding the 15% high flux trip) and RBM interlocks in service.

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NOS. 174 AND 177 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, UNIT NOS. 2 AND 3

DOCKET NOS. 50-277 AND 50-278

1.0 INTRODUCTION

By letter dated March 11, 1993, as supplemented by letter dated May 13, 1993, the Philadelphia Electric Company, Public Service Electric & Gas Company, Delmarva Power and Light Company and Atlantic City Electric Company (the licensees) submitted a request for a change to the Peach Bottom Atomic Power Station, Unit Nos. 2 and 3, Technical Specifications (TS). The requested changes would clarify the Technical Specification Section 1.0 definition of the term "Shutdown Mode" to reflect as-built facility design and to be consistent with descriptions contained in other licensing basis documents. The May 13, 1993 submittal corrected typographical errors contained in the March 11, 1993, application and did not change the initial proposed no significant hazards consideration determination.

2.0 EVALUATION

Figure 7.2.3 of the Peach Bottom Atomic Power Station (PBAPS) Updated Final Safety Analysis Report (UFSAR) is a functional diagram of the reactor protection system (RPS) at the facility. The diagram provides a functional description of the interaction of the reactor mode switch with the RPS. Placing the mode switch in the "Shutdown" position opens contacts in the trip logic, inserting a scram into the actuator circuits. A feature of the trip logic causes the open mode switch contacts to be bypassed approximately 2-10 seconds after the mode switch is placed in shutdown. This feature ensures that the RPS system is not continuously actuated while the mode switch is in the "Shutdown" position.

Figures 7.2.3 and 7.2.4 also depict a separate feature of the RPS trip actuator logic, the SCRAM reset feature. The trip actuator is reset by placing the reset switch in the reset position. Resetting the scram allows the operator to restore the valve line-up in the control rod drive hydraulic system. However, the SCRAM reset feature is not enabled until a ten second timer in the trip actuator circuitry has timed out.

The licensee has proposed changes to the Technical Specification definition of "Shutdown Mode" to reflect the design interaction of the mode switch, the automatic bypass feature and the SCRAM reset timer. The licensee's proposed definition of Shutdown Mode is as follows: "Placing the mode switch to the shutdown position initiates reactor scram. After about 2 seconds, this SCRAM signal is bypassed. The SCRAM logic cannot be reset until a ten second timer is complete. The SCRAM can then be reset to restore the normal valve line-up in the control rod drive hydraulic system."

The staff finds that the licensee's proposed changes do not represent any changes to the actual facility equipment or its operation and can be considered administrative in nature. The proposed wording clarifies the existing TS and, therefore, is acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania State official was notified of the proposed issuance of the amendments. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (58 FR 19487). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Shea

Date: May 20, 1993