

November 16, 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
P.O. Box No. 195
Wayne, Pennsylvania 19087-0195

Dear Mr. Hunger:

SUBJECT: STANDBY GAS TREATMENT SYSTEM DELUGE ACTUATION, PEACH BOTTOM ATOMIC
POWER STATION, UNIT NOS. 2 AND 3, (TAC NOS. M87254 AND M87255)

The Commission has issued the enclosed Amendments Nos. 181 and 186 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 August 20,
1993.

These amendments revise the surveillance requirements for the standby gas
treatment system (SGTS) charcoal filter deluge system. The revised
surveillance requirements reflect your planned modification of the
deluge system actuation from an automatic to a manual operation. 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/

Stephen Dembek, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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PDR ADOCK 05000277
P PDR

Enclosures:

1. Amendment No. 181 to DPR-44
2. Amendment No. 186 to DPR-56
3. Safety Evaluation

cc w/enclosures:

See next page

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NAME	: MO'Brien	: SDembek:rb:		: LNicholson:	CMcCracken:	
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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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The Commission has issued the enclosed Amendments Nos. 181 and 186 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 August 20, 1993.

These amendments revise the surveillance requirements for the standby gas treatment system (SGTS) charcoal filter deluge system. The revised surveillance requirements reflect your planned modification of the deluge system actuation from an automatic to a manual operation. 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 cursive script, appearing to read "Stephen Dembek".

Stephen Dembek, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 181 to DPR-44
2. Amendment No. 186 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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Pennsylvania Department of
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Harrisburg, Pennsylvania 17105-8469

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Delta, Pennsylvania 17314

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

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Route 1, Box 208
Delta, Pennsylvania 17314

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

Resident Inspector
U.S. Nuclear Regulatory Commission
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Regional Administrator, Region I
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Nuclear Review Board
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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. 181
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 August 20, 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:

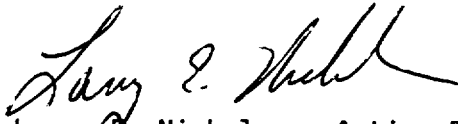
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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 181, 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 and shall be implemented within 90 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Larry E. Nicholson, Acting 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: November 16, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 181

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

240f

Insert

240f

LIMITING CONDITIONS FOR OPERATION	SURVEILLANCE REQUIREMENTS
<p>3.14.A (Cont'd)</p> <p>c. Turbine Building</p> <p>d. Circulating Water Pump Structure</p> <p>6. When a hose station serving an area which contains equipment which is required to be operable becomes inoperable; establish a continuous fire watch equipped with portable fire suppression equipment within 1 hour and provide equivalent protection to the area served by the inoperable station from the operable hose station within 6 hours</p> <p>7. Except as specified in 3.14.A.8 below, the fire suppression spray system serving a Standby Gas Treatment System charcoal filter train shall be operable when a train is required to be operable.</p> <p>8. If the requirements of 3.14.A.7 cannot be met,</p> <p>a. establish a fire watch patrol to inspect the area with inoperable fire suppression equipment at least once per shift.</p> <p>b. restore the system to an operable status within 14 days, or in lieu of any other report required by Specification 6.9.2 submit a Special Report to the Commission pursuant to Specification 6.9.3 within 31 days outlining the cause of the malfunction and the plans for restoring the system to an operable status. The SGTS may be considered operable for the purposes of Specification 3.7.B.</p>	<p>c. Hose station valve operability and blockage check - once every 3 years.</p> <p>d. Hose hydrostatic test at a pressure at least 50 psig greater than the maximum pressure available at that hose station but not less than 150 psig, or replace with an appropriately tested hose. Testing frequency shall be annually for hose stored outside, and every 3 years for interior hoses.</p> <p>6. None</p> <p>7. The SGTS fire suppression spray system testing shall be performed as follows:</p> <p>a. Manual activation test every 18 months.</p> <p>b. Inspection of nozzles and spray header - once every 18 months</p> <p>c. Header and nozzle air flow test - once every 3 years</p>



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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. 186
License No. DPR-56

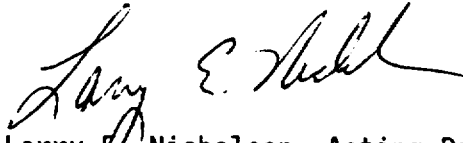
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Philadelphia Electric Company, et. al. (the licensee) dated August 20, 1993, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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. 186, 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 and shall be implemented within 90 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Larry E. Nicholson, Acting 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: November 16, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 186

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

240f

Insert

240f

LIMITING CONDITIONS FOR OPERATION	SURVEILLANCE REQUIREMENTS
<p>3.14.A (Cont'd)</p> <p>c. Turbine Building</p> <p>d. Circulating Water Pump Structure</p> <p>6. When a hose station serving an area which contains equipment which is required to be operable becomes inoperable; establish a continuous fire watch equipped with portable fire suppression equipment within 1 hour and provide equivalent protection to the area served by the inoperable station from the operable hose station within 6 hours</p> <p>7. Except as specified in 3.14.A.8 below, the fire suppression spray system serving a Standby Gas Treatment System charcoal filter train shall be operable when a train is required to be operable.</p> <p>8. If the requirements of 3.14.A.7 cannot be met,</p> <p>a. establish a fire watch patrol to inspect the area with inoperable fire suppression equipment at least once per shift.</p> <p>b. restore the system to an operable status within 14 days, or in lieu of any other report required by Specification 6.9.2 submit a Special Report to the Commission pursuant to Specification 6.9.3 within 31 days outlining the cause of the malfunction and the plans for restoring the system to an operable status. The SGTS may be considered operable for the purposes of Specification 3.7.B.</p>	<p>c. Hose station valve operability and blockage check - once every 3 years.</p> <p>d. Hose hydrostatic test at a pressure at least 50 psig greater than the maximum pressure available at that hose station but not less than 150 psig, or replace with an appropriately tested hose. Testing frequency shall be annually for hose stored outside, and every 3 years for interior hoses.</p> <p>6. None</p> <p>7. The SGTS fire suppression spray system testing shall be performed as follows:</p> <p>a. Manual activation test every 18 months.</p> <p>b. Inspection of nozzles and spray header - once every 18 months</p> <p>c. Header and nozzle air flow test - once every 3 years</p>



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NOS. 181 AND 186 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 August 20, 1993, the Philadelphia Electric Company (the licensee) submitted a request for changes to the Peach Bottom Atomic Power Station (Peach Bottom), Unit Nos. 2 and 3, Technical Specifications (TS). The requested changes would revise the surveillance requirements for the standby gas treatment system (SGTS) charcoal filter deluge system. The revised surveillance requirements reflect the licensee's planned modification of the deluge system actuation from an automatic to a manual operation.

2.0 EVALUATION

2.1 Deluge System Modifications

The standby gas treatment system is designed to limit the ground level release from the reactor building and to release primary and secondary containment air at an elevated release point during a postulated design basis accident. The system is designed so that offsite doses from the postulated design basis accident are below the guideline values of 10 CFR Part 100. The system consists of two parallel filter trains connected to three full-capacity exhaust fans. Each filter train consists of a number of components in series including a moisture separator, high-efficiency filters and charcoal filters.

The charcoal filter trays are provided with a water sprinkler fire suppression system (deluge system) to provide protection against a fire in the charcoal filters. Water is provided to the system via a fixed piping system. Currently, the SGTS deluge system is equipped with an automatic actuation feature. Heat detectors in the SGTS provide a signal to actuate a solenoid valve, which in turn actuates a gate valve in the SGTS deluge system. One deluge gate valve is provided for each redundant train of the SGTS. Opening the deluge gate valve provides water to the deluge system sprinkler heads.

The licensee is planning to modify the actuation mechanism for the SGTS deluge system. The modification is being implemented to reduce the risk of inadvertent actuation of the deluge system. Such inadvertent actuations have occurred at Peach Bottom and render the affected charcoal filter train inoperable. The modification will replace the automatic action valve station (which is currently located in the specific SGTS room) with a new manual valve station in the adjacent stairwell. The manual station will consist of a system block valve which will control flow to the "A" and "B" SGTS train deluge supply systems and an isolation and control valve in series in each supply line. All of the valves will normally be locked closed with frangible locks. In the event of a fire these locks can be broken by an individual by hand. Once the lock has been broken, the SGTS manual deluge system control valves can be operated.

The existing heat detectors will continue to provide an alarm to the control room. Upon actuation of the alarm, the plant fire brigade will be dispatched to the scene to actuate the manual deluge system as appropriate. The licensee has concluded that the increase in system response time as a result of the change to manual actuation does not affect the consequences of a charcoal filter fire because response time is not critical due to the slow developing and non-flaming characteristics of charcoal bed fires.

2.2 Deluge System Technical Specifications

Existing TS 4.14.A.7.a requires that the SGTS fire suppression spray system undergo a simulated automatic actuation test once every 18 months. The licensee has proposed to change the surveillance requirement to a manual actuation test every 18 months.

The staff has reviewed the planned modification and the proposed TS change and has concluded that the planned modification does not cause a significant increase in the consequence of a charcoal filter train fire. The staff also concluded that the proposed change to the TS surveillance test, a once-per-18 month test of the manual block valves, will provide adequate assurance of the ability of the SGTS deluge system to pass water when required, and therefore, is acceptable.

In preparing the revised TS pages for the amendment application, the licensee made two typographical errors. The staff corrected the typographical errors. The staff informed the licensee of the errors and corrections in a telephone call on October 25, 1993. The licensee agreed with the corrections.

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 and change the surveillance requirements. 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 48387). 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: November 16, 1993