

November 1, 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: EFFLUENT RELEASE REPORTING REQUIREMENTS, PEACH BOTTOM ATOMIC POWER  
STATION, UNIT NOS. 2 AND 3, (TAC NOS. M86124 AND M86125)

The Commission has issued the enclosed Amendments Nos. 180 and 185 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 (TS) in response to your application dated February 25, 1993 as supplemented by your letter dated September 1, 1993.

These amendments revise TS Section 6.9.2.h(2) to make the effluent release report an annual requirement in accordance with the change in Title 10, Code of Federal Regulations, Part 50, Section 36a (10 CFR 50.36a), "Technical specifications on effluents from nuclear power reactors," effective October 1, 1992. The amendment revises various other TS that reference the effluent reporting requirement.

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. 180 to DPR-44
2. Amendment No. 185 to DPR-56
3. Safety Evaluation

cc w/enclosures:

See next page

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NRC & Local PDRs SDembek  
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LNicholson EWenzinger, RGN-I  
\*Previous Concurrence

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CGrimes, 11E21  
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NAME	:MO'Brien	:SDembek	:tlc:CMarco	:LNicholson:	:
DATE	:10/25/93	:10/25/93	:10/14/93	:11/1/93	:

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

November 1, 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

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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 cursive script, reading "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. 180 to DPR-44
2. Amendment No. 185 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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Delta, Pennsylvania 17314

Philadelphia Electric Company  
ATTN: Regulatory Engineer, A1-2S  
Peach Bottom Atomic Power Station  
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Delta, Pennsylvania 17314

Resident Inspector  
U.S. Nuclear Regulatory Commission  
Peach Bottom Atomic Power Station  
P.O. Box 399  
Delta, Pennsylvania 17314

Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
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Mr. Roland Fletcher  
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External Operations - Nuclear  
Delmarva Power & Light Company  
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Wilmington, DE 19899

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Bureau of Radiation Protection  
Pennsylvania Department of  
Environmental Resources  
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Harrisburg, Pennsylvania 17105-8469

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  
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Annapolis, Maryland 21401

Mr. John Doering, Chairman  
Nuclear Review Board  
Philadelphia Electric Company  
955 Chesterbrook Boulevard  
Mail Code 52C-1  
Wayne, Pennsylvania 19087



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. 180  
License No. DPR-44

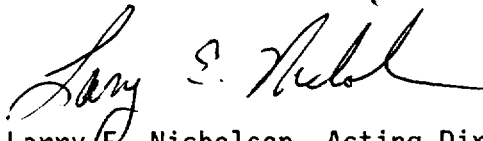
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Philadelphia Electric Company, et. al. (the licensee) dated February 25, 1993 as supplemented by letter dated September 1, 1993, complies with the standards and requirements of the Atomic Energy 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. 180, 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

A handwritten signature in dark ink, appearing to read "Larry E. Nicholson", is written over the typed name.

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 1, 1993

ATTACHMENT TO LICENSE AMENDMENT NO.180

FACILITY OPERATING LICENSE NO. DPR-44

DOCKET NO. 50-277

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

<u>Remove</u>	<u>Insert</u>
207	207
212	212
216b-2	216b-2
259	259

LIMITING CONDITIONS FOR OPERATIONSURVEILLANCE REQUIREMENTS

may be used to estimate flow.

- f. If the requirements of 3.8.B.3.a, 3.8.B.3.b, 3.8.B.3.c, 3.8.B.3.d, or 3.8.B.3.e, cannot be met, suspend release of radioactive effluents via this pathway.
- g. With less than the minimum number of radioactive liquid radwaste monitors OPERABLE exert best efforts to return the instruments to OPERABLE status within 30 days and if unsuccessful explain in the next Annual Radioactive Effluent Release Report why the inoperability was not corrected in a timely manner.

- 4. All liquid effluent releases at and beyond the SITE BOUNDARY shall be processed through one of the Radwaste subsystems or combinations of these subsystems listed below, prior to release\*:

- (i) The Waste Collector Filter and Demineralizer
- (ii) The Floor Drain Filter
- (iii) The Fuel Pool Filter Demineralizer
- (iv) The Chemical/Oily Waste Cleanup Subsystem

- \* Whenever the release(s) would cause the projected dose, when it is averaged over one month to exceed 0.12 mrem to the total body or 0.4 mrem to any organ (combined total from the two reactors at the site).

With liquid waste being discharged without treatment as required above, prepare and submit to the Commission within 21 working days pursuant to Specification 6.9.2, a Special Report which includes the following information:

- a. Explanation of why liquid radwaste was

- 4a. Doses due to liquid effluent releases to areas at and beyond the SITE BOUNDARY shall be projected once per month in accordance with the methodology and parameters in the ODCM.

- 4b. The waste collector filter and demineralizer and the Floor Drain Filter shall be demonstrated operable once per quarter, unless utilized to process liquid waste during the previous 13 weeks, by analyzing the liquid processed through the subsystem and determining that it meets the requirements of Specification 3.8.B.1. The fuel pool filter demineralizer and the chemical/oily-waste cleanup subsystem are exempt from this requirement because they are alternate treatment subsystems and/or are used only periodically for batch treatment of liquids which are analyzed prior to being released and are

## PBAPS

LIMITING CONDITIONS FOR OPERATION

continue provided samples are continuously collected with auxiliary sampling equipment for periods on the order of 7 days and analyzed within 48 hours after the end of the sampling period.

- d. One reactor building exhaust vent flow rate monitor and one main stack flow rate monitor shall be operable and set to alarm in accordance with the methodology and parameters in the ODCM. From and after the date that both reactor building exhaust vent flow rate monitors or both main stack flow rate monitors are made or found to be inoperable for any reason, effluent releases via their respective pathway may continue provided the flow rate is estimated at least once per 4 hours.
  - e. with less than the minimum number of radioactive gaseous effluent monitoring instrumentation channels OPERABLE exert best efforts to return the instruments to OPERABLE status within 30 days and if unsuccessful explain in the next Annual Radioactive Effluent Release Report why the inoperability was not corrected in a timely manner.
5. Gaseous effluents shall be processed through the appropriate gaseous waste treatment system as described below prior to discharge

SURVEILLANCE REQUIREMENTS

- 5a. Doses due to gaseous effluent releases to areas at and beyond the SITE BOUNDARY shall be projected at least once per



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2. A batch release is the discharge of liquid wastes of a discrete volume. Prior to sampling for analysis, each batch shall be isolated and thoroughly mixed to assure representative sampling.
3. A composite sample is one in which the quantity of the sample is proportional to the quantity of liquid waste discharged and in which the method of sampling results in a sample representative of the liquids released.
4. The principal gamma emitters for which the minimum detectable level specification will apply are exclusively the following radionuclides: Mn-54, Fe-59, Co-58, Co-60, Zn-65, Mo-99, Cs-134, Cs-137, Ce-141, and Ce-144. This list does not mean that only these nuclides are to be detected and reported. Other peaks which are measurable and identifiable, together with the above nuclides, shall also be identified and reported. Nuclides which are below the sample detectable limit for the analyses should not be reported as being present at the sample detectable limit level. When unusual circumstances result in sample detectable limits higher than required, the reasons shall be documented in the Annual Effluent Report. The values listed are believed to be attainable.
5. Certain mixtures of radionuclides may cause interference in the measurement of individual radionuclides at their detectable limit especially if other radionuclides are at much higher concentrations. Under these circumstances use of known ratios of radionuclides will be appropriate to calculate the levels of such radionuclides.

## PBAPS

environmental monitoring program including sampling methods for each sample type, size and physical characteristics of each sample type, sample preparation methods, and measuring equipment used; at least two maps of all sampling locations keyed to a table giving distances and directions from the midpoint between reactor vents; the results of land use censuses required by Specification 3.8.E.2; the results of the Interlaboratory Comparison Program and discussion of all analyses in which the LLD required by Tables 4.8.1 and 4.8.2 was not achievable.

(2) Annual Radioactive Effluent Release Report

Routine radioactive effluent release reports covering the previous calendar year shall be submitted prior to May 1 of each year.

The Radioactive Effluent Release Reports shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the site.

The Radioactive Effluent Release Reports shall include the following information for each class of solid waste (as defined by 10 CFR Part 61) shipped offsite during the report period:

- a. Container volume,
- b. Total curie quantity (specify whether determined by measurement or estimate),
- c. Principal radionuclides (specify whether determined by measurement or estimate),
- d. Source of waste and processing employed (e.g., dewatered spent resin, compacted dry waste, evaporator bottoms), and



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. 185  
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 February 25, 1993 as supplemented by letter dated September 1, 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. 185, 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

A handwritten signature in black ink, appearing to read "Larry E. Nicholson", is written over the typed name.

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 1, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 185

FACILITY OPERATING LICENSE NO. DPR-56

DOCKET NO. 50-278

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

<u>Remove</u>	<u>Insert</u>
207	207
212	212
216b-2	216b-2
259	259

LIMITING CONDITIONS FOR OPERATIONSURVEILLANCE REQUIREMENTS

- may be used to estimate flow.
- f. If the requirements of 3.8.B.3.a, 3.8.B.3.b, 3.8.B.3.c, 3.8.B.3.d, or 3.8.B.3.e, cannot be met, suspend release of radioactive effluents via this pathway.
  - g. With less than the minimum number of radioactive liquid radwaste monitors OPERABLE exert best efforts to return the instruments to OPERABLE status within 30 days and if unsuccessful explain in the next Annual Radioactive Effluent Release Report why the inoperability was not corrected in a timely manner.

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- (i) The Waste Collector Filter and Demineralizer
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- continue provided samples are continuously collected with auxiliary sampling equipment for periods on the order of 7 days and analyzed within 48 hours after the end of the sampling period.
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 180 AND 185 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 February 25, 1993, as supplemented by letter dated September 1, 1993, the Philadelphia Electric Company (the licensee) submitted a request for changes to the Peach Bottom Atomic Power Station, Unit Nos. 2 and 3, Technical Specifications (TS). The requested changes would revise TS Section 6.9.2.h.(2) to make the effluent release report an annual requirement in accordance with the change in Title 10, Code of Federal Regulations, Section 50.36a, "Technical specifications on effluents from nuclear power reactors," effective October 1, 1992. The proposed changes revise various other TS that reference the effluent reporting requirement.

2.0 EVALUATION

As indicated above, 10 CFR 50.36a was changed to require that a report to the Commission specifying the quantity of each of the principal radionuclides released to unrestricted areas during the previous 12 months should be prepared and submitted. The new regulation also requires that the time interval between submissions of the reports must be no longer than 12 months. Previously, 10 CFR 50.36a required these reports to be submitted semiannually and within 60 days after January 1 and July 1 of each year.

The most recent report was submitted on August 26, 1993, under the old TS, and covered the period from January 1, 1993 through June 30, 1993. The licensee proposed May 1 of each year as the reporting date for the previous calendar year. The licensee will submit one more report covering the period July 1, 1993 through December 31, 1993. Subsequent reports will cover an entire calendar year. Since the requested technical specification changes are consistent with the new regulation and since the submittals of the required reports will provide continuity in the periods covered, the staff finds that the licensee's proposed changes to the Technical Specifications meet the regulations and are, therefore, acceptable.

In preparing the revised TS pages for the amendment application, the licensee made several unintended typographical errors. The staff corrected the typographical errors. The staff informed the licensee of the errors and corrections in a telephone conference on October 5, 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

These amendments relate to changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these 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 1, 1993