

FEB 2 1977

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Dockets Nos. 50-277
and 50-278

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

Gentlemen:

The Commission has issued the enclosed Amendments Nos. 31 and 30 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 9, 1976, as supplemented by letters dated August 9, 1976 and January 5, 1977.

These amendments will permit an elevation in the temperature setpoint for isolation of the Reactor Water Cleanup System (RWCUS) upon the occurrence of high temperature downstream of the non-regenerative heat exchanger.

Copies of the Safety Evaluation and the FEDERAL REGISTER Notice are also enclosed.

Sincerely,

Original signed by

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

Enclosures:

1. Amendments Nos. 31 and 30
2. Safety Evaluation
3. FEDERAL REGISTER Notice

cc: See page 2

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OFFICE →	ORB #3	ORB #3	PSB	OELD	ORB #3
SURNAME →	CParrish	EVerdery:mjf	WB	KARMAN	GLear
DATE →	2/7/77	2/23/77	2/11/77	2/23/77	2/23/77

Philadelphia Electric Company

- 2 -

cc:

Eugene J. Bradley
Philadelphia Electric Company
Assistant General Counsel
2301 Market Street
Philadelphia, Pennsylvania 19101

Chief, Energy Systems Analysis Branch (AW-459)
Office of Radiation Programs
U. S. Environmental Protection Agency
Room 645, East Tower
401 M Street, S. W.
Washington, D. C. 20460

Troy B. Conner, Jr.
1747 Pennsylvania Avenue, N. W.
Washington, D. C. 20006

U. S. Environmental Protection Agency
Region III Office
ATTN: EIS COORDINATOR
Curtis Building (Sixth Floor)
6th and Walnut Streets
Philadelphia, Pennsylvania 19106

Raymond L. Hovis, Esquire
35 South Duke Street
York, Pennsylvania 17401

Martin Memorial Library
159 E. Market Street
York, Pennsylvania 17401

Warren K. Rich, Esquire
Assistant Attorney General
Department of Natural Resources
Annapolis, Maryland 21401

Philadelphia Electric Company
ATTN: Mr. W. T. Ullrich
Peach Bottom Atomic
Power Station
Delta, Pennsylvania 17314

Mr. R. A. Heiss, Coordinator
Pennsylvania State Clearinghouse
Governor's Office of State Planning
and Development
P. O. Box 1323
Harrisburg, Pennsylvania 17120

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



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. 31
License No. DPR.44

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Philadelphia Electric Company, Public Service Electric and Gas Company, Delmarva Power and Light Company, and Atlantic City Electric Company, (the licensees) dated April 7, 1976, as supplemented by letters dated August 9, 1976 and January 5, 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.

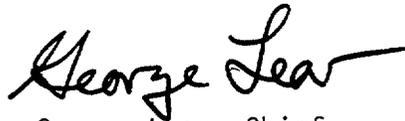
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility Operating License No. DPR-44 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 31, are hereby incorporated in the license. The licensees 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: February 24, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 31
TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-44
DOCKET NO. 50-277

Replace pages 61 and 62 with the attached revised pages. (No change has been made on page 61.)

TABLE 3.2.A

INSTRUMENTATION THAT INITIATES PRIMARY CONTAINMENT ISOLATION

Minimum No. of Operable Instrument Channels per Trip System (1)	Instrument	Trip Level Setting	Number of Instrument Channels Provided By Design	Action (2)
2 (6)	Reactor Low Water Level	≥ 0 " Indicated Level (3)	4 Inst. Channels	A
1	Reactor High Pressure (Shutdown Cooling Isolation)	≤ 75 psig	2 Inst. Channels	D
2	Reactor Low-Low Water Level	at or above -49" indicated level (4)	4 Inst. Channels	A
-19- 2 (6)	High Drywell Pressure	≤ 2 psig	4 Inst. Channels	A
2	High Radiation Main Steam Line Tunnel	≤ 3 X Normal Rated (8) Full Power Background	4 Inst. Channels	B
2	Low Pressure Main Steam Line	≥ 850 psig (7)	4 Inst. Channels	B
2 (5)	High Flow Main Steam Line	$\leq 140\%$ of Rated Steam Flow	4 Inst. Channels	B
2	Main Steam Line Tunnel Exhaust Duct High Temperature	≤ 200 deg. F	4 Inst. Channels	B

TABLE 3.2.A (Cont'd.)

INSTRUMENTATION THAT INITIATES PRIMARY CONTAINMENT ISOLATION

Minimum No. of Operable Instrument Channels per Trip System (1)	Instrument	Trip Level Setting	Number of Instrument Channels Provided By Design	Action (2)
2	Main Steam Line Leak Detection High Temperature	≤ 200 deg. F	4 Inst. Channels	B
1	Reactor Cleanup System High Flow	≤ 300 % of Rated Flow	2 Inst. Channels	C
1	Reactor Cleanup System High Temperature	≤ 200 deg. F	1 Inst. Channel	C



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. 30
License No. DPR-56

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Philadelphia Electric Company, Public Service Electric and Gas Company, Delmarva Power and Light Company, and Atlantic City Electric Company, (the licensees) dated April 7, 1976, as supplemented by letters dated August 9, 1976 and January 5, 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.

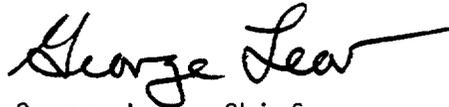
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. DPR-56 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 30, are hereby incorporated in the license. The licensees 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: February 24, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 30
TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-56
DOCKET NO. 50-278

Replace pages 61 and 62 with the attached revised pages. (No change has been made on page 61.)

TABLE 3.2.A

INSTRUMENTATION THAT INITIATES PRIMARY CONTAINMENT ISOLATION

Minimum No. of Operable Instrument Channels per Trip System (1)	Instrument	Trip Level Setting	Number of Instrument Channels Provided By Design	Action (2)
2 (6)	Reactor Low Water Level	≥ 0 " Indicated Level (3)	4 Inst. Channels	A
1	Reactor High Pressure (Shutdown Cooling Isolation)	≤ 75 psig	2 Inst. Channels	D
2	Reactor Low-Low Water Level	at or above -49" indicated level (4)	4 Inst. Channels	A
2 (6)	High Drywell Pressure	≤ 2 psig	4 Inst. Channels	A
2	High Radiation Main Steam Line Tunnel	≤ 3 X Normal Rated (8) Full Power Background	4 Inst. Channels	B
2	Low Pressure Main Steam Line	≥ 850 psig (7)	4 Inst. Channels	B
2 (5)	High Flow Main Steam Line	$\leq 140\%$ of Rated Steam Flow	4 Inst. Channels	B
2	Main Steam Line Tunnel Exhaust Duct High Temperature	≤ 200 deg. F	4 Inst. Channels	B

TABLE 3.2.A (Cont'd.)

INSTRUMENTATION THAT INITIATES PRIMARY CONTAINMENT ISOLATION

Minimum No. of Operable Instrument Channels per Trip System (1)	Instrument	Trip Level Setting	Number of Instrument Channels Provided By Design	Action (2)
2	Main Steam Line Leak Detection High Temperature	≤ 200 deg. F	4 Inst. Channels	B
1	Reactor Cleanup System High Flow	≤ 300 % of Rated Flow	2 Inst. Channels	C
1	Reactor Cleanup System High Temperature	≤ 200 deg. F	1 Inst. Channel	C



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 31 TO FACILITY LICENSE NO. DPR-44 AND
AMENDMENT NO. 30 TO FACILITY LICENSE NO. DPR-56
PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS NOS. 2 AND 3
DOCKETS NOS. 50-277 AND 50-278

1.0 Introduction

By letter dated April 7, 1976, Philadelphia Electric Company (PECO) requested an amendment to Facility Operating Licenses Nos. DPR-44 and DPR-56 for the Peach Bottom Atomic Power Station, Units Nos. 2 and 3. The requested amendments would permit deletion of the Technical Specification requirements on isolation of the Reactor Water Cleanup System (RWCUS) upon the occurrence of high temperature downstream of the non-generative heat exchanger (NRHX). By letter dated July 6, 1976, the NRC staff informed PECO that insufficient justification had been provided by the licensee for NRC staff approval of this request. Subsequently, by letter dated August 9, 1976, PECO modified their original request from deletion of the trip function to an elevation in the temperature setpoint from 140°F to 200°F. At that time, the licensee provided additional supporting information for operation of powdered resin filter demineralizer (POWDEX) installations (similar to those at Peach Bottom) at elevated temperatures. By letter dated January 5, 1977, the licensee submitted additional information which described certain operational problems with the RWCUS related to the 140°F setpoint. At that time, the licensee also provided a technical report, prepared by a vendor, which supported the request for a 200°F setpoint for isolation of the RWCUS on high temperature.

2.0 Evaluation

The NRC staff has reviewed the information submitted by PECO in support of their request to increase the temperature setpoint for isolation of the RWCUS. Isolation of the RWCUS on high temperature downstream of the NRHX is designed to protect the ion exchanger (demineralizer) resin from overheating and subsequent damage. Such damage could impair the resins' ability to remove impurities from the primary coolant and possibly result

in the release of previously captured impurities back into the coolant in large concentrations. The previously established temperature actuation setpoint of 140°F was intended to prevent overheating of mixed bed ion exchange resins. That temperature (140°F) was the design setpoint valve for isolation of the RWCUS presented in the Final Safety Analysis report submitted by the licensee. Consequently, the 140°F setpoint was included in the Peach Bottom Units Nos. 2 and 3 Technical Specifications when those facilities received their operating licenses. The original Technical Specifications issued to Peach Bottom Units Nos. 2 and 3 did not consider the fact that powdered ion exchange resins, as employed in the POWDEX Process, were used in the Demineralizers of the RWCUS.

The NRC staff considers the spurious isolations of the RWCUS that have occurred at Peach Bottom Units Nos. 2 and 3, because of the 140°F setpoint currently in effect, to be undesirable and not necessary to prevent the damage of the POWDEX resin being utilized. Based on the experimental evidence, provided by the licensee, which shows that POWDEX resins can be operated successfully at temperatures in excess of 250°F, we conclude that the requested setpoint of 200°F will adequately protect the POWDEX resin from overheating. We further conclude that the elimination of unnecessary thermal transients on the RWCUS System at Peach Bottom Units Nos. 2 and 3, attendant with the requested change in setpoint, is desirable from a safety standpoint and is therefore acceptable.

Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §1.5(d)(4), that an environmental impact statement or negative declaration, and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the change does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the change does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: February 24, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-277 AND 50-278

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

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 31 and 30 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 will permit an elevation in the temperature setpoint for isolation of the Reactor Water Cleanup System (RWCUS) upon the occurrence of high temperature downstream of the non-regenerative heat exchanger (NRHX).

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.

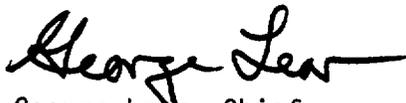
The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance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

For further details with respect to this action, see (1) the application for amendments dated April 9, 1976 and August 9, 1976, (2) Amendments Nos. 31 and 30 to Licenses Nos. DPR-44 and DPR-56, and (3) the Commission's related Safety Evaluation. 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 Martin Memorial Library, 159 E. Market Street, York, Pennsylvania 17401.

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 24th day of February, 1977,

FOR THE NUCLEAR REGULATORY COMMISSION



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