



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20565

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. 49  
License No. DPR-44

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendment by Philadelphia Electric Company, et al, (the licensee) dated January 18, April 12, May 19, June 12, and September 19, 1978, comply 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.

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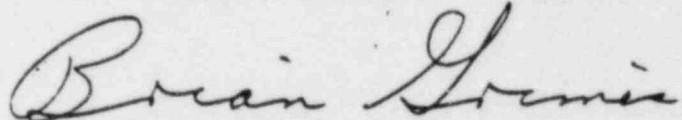
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. DPR-44 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 49, 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



Brian K. Grimes, Assistant Director  
for Engineering and Projects  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 30, 1978

ATTACHMENT TO LICENSE AMENDMENT NO. 49

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 pages are identified by Amendment number and contain vertical lines indicating the area of change.

Remove

ii  
228  
241

Insert

ii  
228  
241

TABLE OF CONTENTS (Cont'd.)Page No.

<u>LIMITING CONDITIONS FOR OPERATION</u>		<u>SURVEILLANCE REQUIREMENTS</u>	
3.6	PRIMARY SYSTEM BOUNDARY	4.6	143
	A. Thermal and Pressurization Limitations	A	143
	B. Coolant Chemistry	B	145
	C. Coolant Leakage	C	146
	D. Safety and Relief Valves	D	147
	E. Jet Pumps	E	148
	F. Jet Pump Flow Mismatch	F	148
	G. Structural Integrity	G	149
3.7	CONTAINMENT SYSTEMS	4.7	165
	A. Primary Containment	A	165
	B. Standby Gas Treatment System	B	175
	C. Secondary Containment	C	176
	D. Primary Containment Isolation Valves	D	177
3.8	RADIOACTIVE MATERIALS	4.8	203
	A. General	A	203
	B. Liquid Effluents	B	204
	C. Airborne Effluents	C	206
	D. Mechanical Vacuum Pump	D	209
3.9	AUXILIARY ELECTRICAL SYSTEMS	4.9	217
	A. Auxiliary Electrical Equipment	A	217
	B. Operation with Inoperable Equipment	B	219
	C. Emergency Service Water System	C	221
3.10	CORE	4.10	225
	A. Refueling Interlocks	A	225
	B. Core Monitoring	B	227
	C. Spent Fuel Pool Water Level	C	228
	D. Heavy Loads Over Spent Fuel	D	228
	E. Spent Fuel Decay Time	E	228
3.11	ADDITIONAL SAFETY RELATED PLANT CAPABILITIES	4.11	233
	A. Main Control Room Ventilation	A	233
	B. Alternate Heat Sink Facility	B	234
	C. Emergency Shutdown Control Panel	C	234
3.12	RIVER LEVEL	4.12	237
	A. High River Water Level	A	237
	B. Low River Water Level	B	237
	C. Level Instrumentation	C	238
3.13	MISCELLANEOUS RADIOACTIVE MATERIALS SOURCES	4.13	240a

PBAPS

LIMITING CONDITIONS FOR OPERATION

SURVEILLANCE REQUIREMENTS

3.10.B (Cont'd.)

1. The SRM shall be inserted to the normal operating level. (Use of special moveable, dunking type detectors during initial fuel loading and major core alterations in place of normal detectors is permissible as long as the detector is connected to the normal SRM circuit.)
2. The SRM shall have a minimum of 3 cps with all rods fully inserted in the core.

C. Spent Fuel Pool Water Level

Whenever irradiated fuel is stored in the spent fuel pool, the pool water level shall be maintained at or above 8 1/2' above the top of the fuel.

D. Heavy Loads Over Spent Fuel

Loads in excess of 1000 lbs (excluding the rigging and transport vehicle) shall be prohibited from travel over fuel assemblies in the spent fuel storage pool.

E. Spent Fuel Decay Time

The reactor shall be subcritical for at least 120 hours prior to movement of fuel elements from the reactor vessel to the spent fuel pool.

4.10.B (Cont'd.)

C. Spent Fuel Pool Water Level

Whenever irradiated fuel is stored in the spent fuel pool, the water level shall be recorded daily.

E. Spent Fuel Decay Time

The reactor shall be determined to have been subcritical for at least 120 hours by verification of the date and time of subcriticality prior to movement of irradiated fuel from the reactor vessel to the spent fuel pool.

## 5.0 MAJOR DESIGN FEATURES

### 5.1 SITE FEATURES

The site is located partly in Peach Bottom Township, York County, partly in Drumore Township, Lancaster County, and partly in Fulton Township, Lancaster County, in southeastern Pennsylvania on the westerly shore of Conowingo Pond at the mouth of Rock Run Creek. It is about 38 miles north-northeast of Baltimore, Maryland, and 63 miles west-southwest of Philadelphia, Pennsylvania. Figures 2.2.1 through 2.2.4 of the FSAR show the site location with respect to surrounding communities.

### 5.2 REACTOR

- A. The core shall consist of not more than 764 fuel assemblies. 7 x 7 fuel assemblies shall contain 49 fuel rods and 8 x 8 fuel assemblies shall contain 62 or 63 fuel rods.
- B. The reactor core shall contain 185 cruciform-shaped control rods. The control material shall be boron carbide powder (B<sub>4</sub>C) compacted to approximately 70% of the theoretical density.

### 5.3 REACTOR VESSEL

The reactor vessel shall be as described in Table 4.2.2 of the FSAR. The applicable design codes shall be as described in Table 4.2.1 of the FSAR.

### 5.4 CONTAINMENT

- A. The principal design parameters for the primary containment shall be as given in Table 5.2.1 of the FSAR. The applicable design codes shall be as described in Appendix M of the FSAR.
- B. The secondary containment shall be as described in Section 5.3 of the FSAR.
- C. Penetrations to the primary containment and piping passing through such penetrations shall be designed in accordance with standards set forth in Section 5.2.3.4 of the FSAR.

### 5.5 FUEL STORAGE

- A. The new fuel storage facility shall be such that the  $K_{eff}$  dry is less than 0.90 and flooded is less than 0.95.
- B. The  $K_{eff}$  of the spent fuel storage pool shall be less than or equal to 0.95.
- C. Spent fuel shall only be stored in the spent fuel pool in a vertical orientation in approved storage racks.
- D. The average fuel assembly loading shall not exceed 17.3 grams U-235 per axial centimeter of total active fuel height of the assembly.





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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. 48  
License No. DPR-56

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendment by Philadelphia Electric Company, et al, (the licensee) dated January 18, April 12, May 19, June 12, and September 19, 1978, comply 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;
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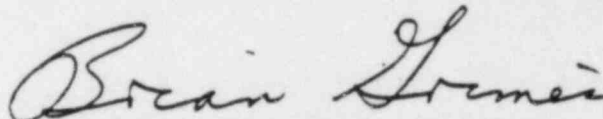
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. DPR-56 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 48, 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



Brian K. Grimes, Assistant Director  
for Engineering and Projects  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 30, 1978



ATTACHMENT TO LICENSE AMENDMENT NO. 48

FACILITY OPERATING LICENSE NO. DPR-56

DOCKET NO. 50-278

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	F. Jet Pump Flow Mismatch	F	148
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	D. Heavy Loads Over Spent Fuel	D	228
	E. Spent Fuel Decay Time	E	228
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- B. The  $K_{eff}$  of the spent fuel storage pool shall be less than or equal to 0.95.
- C. Spent fuel shall only be stored in the spent fuel pool in a vertical orientation in approved storage racks.
- D. The average fuel assembly loading shall not exceed 17.3 grams U-235 per axial centimeter of total active fuel height of the assembly.

### 5.6 SEISMIC DESIGN

The station Class I structures and systems have been designed for ground accelerations of 0.05g (design earthquake) and 0.12g (maximum credible earthquake).