

February 22, 1988

Dockets Nos. 50-277/278

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

Dear Mr. Bauer:

SUBJECT: WIDE RANGE DRYWELL TEMPERATURE INSTRUMENTATION (TAC NOS. 64540, 64542)

RE: PEACH BOTTOM ATOMIC POWER STATION, UNIT NOS. 2 AND 3

The Commission has issued the enclosed Amendments Nos. 128 and 131 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 October 24, 1986 as supplemented on January 22, 1988.

These amendments change the range specified for the drywell temperature indicator and recorder, provide clarifications for Technical Specification Table 3.2.F and correct an error in Table 3.2.F.

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/

Robert E. Martin, Project Manager
Project Directorate I-2
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 128 to DPR-44
2. Amendment No. 131 to DPR-56
3. Safety Evaluation

cc w/enclosures:
See next page

Previously concurred*

PDI-2/LA*	PDI-2/PM*	OGC*
MO'Brien	REMartin	RBachmann
1/13/88	1/13/88	1/20/88
	& 2/19/88	

PDI-2/D
WButler
2/19/88



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 Docket File
 NRC PDR
 Local PDR
 PDI-2 Rdg.
 SVarga
 BBoger
 WButler
 REMartin(2)
 RClark
 EButcher
 MO'Brien(2)
 ACRS(10)
 GPA/PA
 OGC-Beth.
 RDiggs, ARM/LFMB
 TBarnhart(8)
 EJordan
 DHagan
 Wanda Jones
 Tech Branch-BMarcus
 JPartlow
 RClayton
 RGalio



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
February 22, 1988

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RE: PEACH BOTTOM ATOMIC POWER STATION, UNIT NOS. 2 AND 3

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3. Safety Evaluation

cc w/enclosures:
See next page

Mr. E. G. Bauer, Jr.
Philadelphia Electric Company

Peach Bottom Atomic Power Station,
Units 2 and 3

cc:

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Board of Supervisors
Peach Bottom Township
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Delta, Pennsylvania 17314

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Baltimore, Maryland 21201



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. 128
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 October 24, 1986 as supplemented on January 22, 1988, 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(?) 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. 128, are hereby incorporated in the license. PECO shall operate the facility in accordance with the Technical Specifications.

- 3. This license amendment is effective upon completion of the modifications to each device and no later than prior to the beginning of fuel cycle number nine.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 22, 1988

RBachmann, OGC
conc'd on cover
ltr of this am.
on 1/20/88

PDI-2/DA
MWB
1/13/88

PDI-2/PM
REMartin:mr
1/13/88

OGC
1/88

PDI-2/D
WButler
2/19/88

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 128, are hereby incorporated in the license. PECO shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective upon completion of the modifications to each device and no later than prior to the beginning of fuel cycle number nine.

FOR THE NUCLEAR REGULATORY COMMISSION

Walter R. Butler

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 22, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 128

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>
77	77
77a	77a
78a	78a

TABLE 3.2.F SURVEILLANCE INSTRUMENTATION

Item	Minimum No. of Operable Instrument Channels	Parameter	Instrument	Type Indication and Range	Action*
1	2	Reactor Water Level (narrow range)	LR-2(3)-6-96 LI-2(3)-6-94A, B, C	Recorder 0-60" Indicator 0-60"	(1) (2)(3)
2	2	Reactor Water Level (wide range)	LR-2(3)-2-3-110A, B (Green Pen)	Recorder -165" to +50"	(10) (11)
3	2	Reactor Water Level (fuel zone)	LR-2(3)-2-3-110A, B (Red Pen)	Recorder -325" to 0"	(10) (11)
4	2	Reactor Pressure	PR-2(3)-6-96 PR-2(3)-2-3-404A, B PI-2(3)-6-90A, B, C	Recorder 0-1500 psig Indicator 0-1200 psig	(1) (2) (3)
5	2	Drywell Pressure	PR-4(5)805 (Pen 2) PR-2(3)508 (Pen 2)	Recorder 0-70 psig	(1) (2) (3)
6	2	Drywell Pressure (wide range)	PR-8(9)102A, B (Red Pen)	Recorder 0-225 psig	(8) (9)
7	2	Drywell Pressure (subatmospheric range)	PR-8(9)102A, B (Green Pen)	Recorder 5-25 psia	(8) (9)
8	2	Drywell Temperature	TR-4(5)805 (Pen 1) TI-2(3)501	Recorder 40-440 degrees F Indicator 40-440 degrees F	(1) (2) (3) (1) (2) (3) (12)
9	2	Suppression Chamber Water Temperature	TR-8(9)123A, B TIS-2(3)-2-71A, B	Recorder 30-230 degrees F Indicator 30-230 degrees F	(1) (2) (3) (6)
10	2	Suppression Chamber Water Level (narrow range)	LR-8(9)027 LI-8(9)027	Recorder 13.7-15.7 ft. Indicator 13.7-15.7 ft.	(1) (2) (3)

TABLE 3.2.F (Cont'd) - SURVEILLANCE INSTRUMENTATION

Item	Minimum No. of Operable Instrument Channels	Parameter	Instrument	Type Indication and Range	Action*
11	2	Suppression Chamber Water Level (wide range)	LR-8(9)123A, B	Recorder 1-21 ft.	(10) (11)
12	1	Control Rod Position	N/A	28 Volt Indicating Lights)	(1) (2) (3) (4)
13	1	Neutron Monitoring	N/A	SRM, IRM, LPRM. 0-100%)	
14	1	Safety-Relief Valve Position Indication	POAM-2(3)-2-71A-L TE-2(3)-2-113A-L	Acoustic or Thermocouple	(5)
15	2	Drywell High Range Radiation Monitors	RR-8(9)103A, B	Recorder 1-1E(+8) R/hr	(7)
16	1	Main Stack High Range Radiation Monitor	RR-7127 (Green Pen)	Recorder 1.4E(-2) to 1.4E(+4)uCi/cc	(7)
17	1	Reactor Building Roof Vent High Range Radiation Monitor	RR-7127 (Red Pen U/2) RR-7127 (Blue Pen U/3)	Recorder 1.4E(-2) to 1.4E(+4)uCi/cc	(7)
18	2	Drywell Hydrogen Concentration Analyzer and Monitor	2(3)BS215, 2(3)CS215 H2R-4(5)965B, C	Analyzer and Recorder 0-20% volume	(1) (2) (3)

*Notes for Table 3.2.F appear on pages 78 and 78a.

NOTES FOR TABLE 3.2.F (Cont'd)

- 9) If no channels are operable, continued operation is permissible during the succeeding 7 days, provided both Drywell Pressure instruments (0-70 psig) are operable; otherwise, restore the inoperable channel(s) to operable status within 48 hours or be in at least Hot Shutdown within the next 12 hours.
- 10) With the number of operable channels less than the minimum number of instrumentation channels shown in Table 3.2.F, continued operation is permissible during the succeeding 30 days, provided both narrow range instruments monitoring the same variable are operable; otherwise, restore the inoperable channel to operable status within 7 days or be in at least Hot Shutdown within the next 12 hours.
- 11) If no channels are operable, continued operation is permissible during the succeeding seven days, provided both narrow range instruments monitoring the same variable are operable; otherwise, restore the inoperable channel(s) to operable status within 48 hours or be in at least Hot Shutdown within the next 12 hours.
- 12) The instrument range may be greater than the range listed in Table 3.2.F provided that (1) the range includes the upper and lower range limits specified in Table 3.2.F, and (2) the range does not exceed three times the range specified in Table 3.2.F.



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. 131
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 October 24, 1986 as supplemented on January 22, 1988, 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. 131, are hereby incorporated in the license. PECO shall operate the facility in accordance with the Technical Specifications.

- 3. This license amendment is effective upon completion of the modifications to each device and no later than prior to the beginning of fuel cycle number eight.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 22, 1988

RBachmann, OGC
conc'd on cover
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on 1/20/88

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MBrien
1/13/88

PDI-2/DM
REMartin:mr
1/13/88

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PDI-2/D
WButler
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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 131, are hereby incorporated in the license. PECO shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective upon completion of the modifications to each device and no later than prior to the beginning of fuel cycle number eight.

FOR THE NUCLEAR REGULATORY COMMISSION



Walter R. Butler, Director
Project Directorate I-2
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 22, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 131

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>
77	77
77a	77a
78a	78a

TABLE 3.2.F SURVEILLANCE INSTRUMENTATION

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2	2	Reactor Water Level (wide range)	LR-2(3)-2-3-110A, B (Green Pen)	Recorder -165" to +50"	(10) (11)
3	2	Reactor Water Level (fuel zone)	LR-2(3)-2-3-110A, B (Red Pen)	Recorder -325" to 0"	(10) (11)
4	2	Reactor Pressure	PR-2(3)-6-96 PR-2(3)-2-3-404A, B PI-2(3)-6-90A, B, C	Recorder 0-1500 psig Indicator 0-1200 psig	(1) (2) (3)
5	2	Drywell Pressure	PR-4(5)805 (Pen 2) PR-2(3)508 (Pen 2)	Recorder 0-70 psig	(1) (2) (3)
6	2	Drywell Pressure (wide range)	PR-8(9)102A, B (Red Pen)	Recorder 0-225 psig	(8) (9)
7	2	Drywell Pressure (subatmospheric range)	PR-8(9)102A, B (Green Pen)	Recorder 5-25 psia	(8) (9)
8	2	Drywell Temperature	TR-4(5)805 (Pen 1) TI-2(3)501	Recorder 40-440 degrees F Indicator 40-440 degrees F	(1) (2) (3) (1) (2) (3) (12)
9	2	Suppression Chamber Water Temperature	TR-8(9)123A, B TIS-2(3)-2-71A, B	Recorder 30-230 degrees F Indicator 30-230 degrees F	(1) (2) (3) (6)
10	2	Suppression Chamber Water Level (narrow range)	LR-8(9)027 LI-8(9)027	Recorder 13.7-15.7 ft. Indicator 13.7-15.7 ft.	(1) (2) (3)

Amendment No. 40, 73, 85, 117, 131

TABLE 3.2.F (Cont'd) - SURVEILLANCE INSTRUMENTATION

Item	Minimum No. of Operable Instrument Channels	Parameter	Instrument	Type Indication and Range	Action*
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12	1	Control Rod Position	N/A	28 Volt Indicating Lights)	(1) (2) (3) (4)
13	1	Neutron Monitoring	N/A	SRM, IRM, LPRM. 0-100%)	
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*Notes for Table 3.2.F appear on pages 78 and 78a.

Amendment No. ~~17~~, 131

NOTES FOR TABLE 3.2.F (Cont'd)

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- 12) The instrument range may be greater than the range listed in Table 3.2.F provided that (1) the range includes the upper and lower range limits specified in Table 3.2.F, and (2) the range does not exceed three times the range specified in Table 3.2.F.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION SUPPORTING

AMENDMENT NOS. 128 AND 131 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 October 24, 1986, Philadelphia Electric Company requested an amendment to Facility Operating License Nos. DPR-44 and DPR-56 for Peach Bottom Atomic Power Station, Unit Nos. 2 and 3. By letter dated January 22, 1988 the licensee provided scheduler commitments for the implementation of the associated modifications. The amendments would bring the range of the drywell temperature instrumentation into conformance with the recommendations of Regulatory Guide 1.97, Revision 3. (Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs During and Following an Accident).

Regulatory Guide 1.97, Revision 3, recommends instrumentation with a range of 40 to 440°F to monitor the drywell atmosphere temperature.

The licensee requested that the Peach Bottom Technical Specifications be revised to bring the range of a drywell temperature indicator and a drywell temperature recorder into conformance with the recommendations of Regulatory Guide 1.97 by changing the range of the drywell temperature instruments to 40 to 440°F. Additional changes were also requested to clarify Table 3.2.F and to correct an error in Table 3.2.F.

Currently, drywell temperature is monitored in the control room via a pressure/temperature recorder and a multi-point temperature indicator. The temperature range of the pressure/temperature recorder is 0 to 240°F and the range of the temperature indicator is -150 to +300°F. By letter dated January 16, 1984, from S. L. Daltroff, Philadelphia Electric Company, to D. G. Eisenhut, NRC, the licensee committed to revising the range of these drywell temperature instruments to 40 to 440°F in order to satisfy the recommendations of Regulatory Guide 1.97.

2.0 EVALUATION

The licensee intends to replace the pressure/temperature recorder with a new recorder which will provide a temperature range of 40 to 440°F. The licensee intends to modify the temperature indicator to meet the range

requirement by installing a linearizer program board and a thermocouple signal conditioner board which will give this device a range of -300 to +750°F. These boards are the only ones available from the manufacturer which will satisfy the range recommendations of Regulatory Guide 1.97. The instrument accuracy for the proposed range of the temperature indicator will be $\pm 2.625^\circ\text{F}$ ($\pm 0.25\%$ full scale). The instrument accuracy of the temperature indicator as currently installed is $\pm 1.125^\circ\text{F}$.

The current Technical Specification Table 3.2.F specifies a range of 0 to 400°F for the drywell temperature indicator and recorder. As a result of the range change modification discussed above, the licensee has requested that the range of the drywell temperature devices listed in Table 3.2.F be changed to 40 to 440°F. Further, because the new range of the temperature indicator would not be identical to the proposed range in Table 3.2.F, the licensee is planning to add a clarifying note (Note 12) to Technical Specification page 78a to indicate that the new range of the temperature indicator (-300 to +750°F) is acceptable because it encompasses the proposed range of 40 to 440°F. The licensee plans for these changes to become effective upon completion of the modification to each device.

In order to improve the clarity of Table 3.2.F, the licensee plans to add two new columns to Table 3.2.F. One of the new columns would list the instruments in the table by their identification numbers. Currently, the identification of instruments is inferred by using the type of indication and range for each parameter specified in the table. The addition of this column would make it easier to ensure that the minimum number of instrument channels are operable as specified in the table. The other new column would provide a number (1 thru 18) for each of the eighteen items identified in Table 3.2.F. The addition of this column would provide an easy reference method for the parameters in the table.

The licensee has identified an error in Table 3.2.F involving the range of the suppression chamber water level (narrow range) instruments. Currently, the instrument range for this parameter is specified in Table 3.2.F as 0 to 2 feet. In actuality, the installed range of these instruments is 13.7 to 15.7 feet. (Normal suppression chamber water level is maintained at 14.6 to 14.9 feet). The licensee is requesting that the required range of the suppression chamber water level instruments specified in Table 3.2.F be changed from 0 to 2 feet to 13.7 to 15.7 feet.

Based on the above evaluation, the staff concludes that the proposed hardware changes to the drywell temperature instrumentation are consistent with the criteria identified in Regulatory Guide 1.97 Rev. 3.

The staff concludes that the changes to Technical Specifications Table 3.2.F reflect the hardware modification, help to clarify the Technical Specifications and correct an error. Therefore, the proposed changes to the Technical Specifications are acceptable.

3.0 ENVIRONMENTAL CONSIDERATIONS

These amendments involve a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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. 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 nor environmental assessment need be prepared in connection with the issuance of the amendments.

4.0 CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (52 FR 4416) on February 11, 1987 and consulted with the State of Pennsylvania. No public comments were received and the State of Pennsylvania did not have any comments.

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations, and 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: B. Marcus

Dated: February 22, 1988