

November 22, 1988

- Docket No. 50-277

Mr. George A. Hunger, Jr.  
Director-Licensing  
Philadelphia Electric Company  
2301 Market Street  
Philadelphia, Pennsylvania 19101

DISTRIBUTION

Docket File	ACRS(10)
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BBoger	EJordan
WButler	DHagan
REMartin	Wanda Jones
RClark	HRichings
MO'Brien	EButcher
BClayton	BGrimes
	RGallo
	WHodges,RSB

Dear Mr. Hunger:

SUBJECT: REVISION OF MAPLHGR FIGURES (TAC NO. 68324)

RE: PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 2

The Commission has issued the enclosed Amendment No. <sup>136</sup>~~139~~ to Facility Operating License No. DPR-44 for the Peach Bottom Atomic Power Station, Unit No. 2. This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated April 21, 1988.

This amendment revises Technical Specification Figures 3.5.1.M and 3.5.1.N. to correct errors and to revise nomenclature used on these figures when they were previously revised in amendment number 123. The curve on these figures showing the limiting values of maximum average planar linear heat generation rate (MAPLHGR) is revised to agree with the printed values on the Figures which are correct and are unchanged by the amendment.

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: <sup>136</sup>

1. Amendment No. ~~139~~ to License No. DPR-44
2. Safety Evaluation

*CR-1*

cc w/enclosures:  
See next page

Previously concurred\*

GRivenbark  
for

PDI-2/LA*	PDI-2/PM*	RSB*	OGC*	PDI-2/D*
MO'Brien	REMartin:tr	WHodges	CBarth	WButler
10/20/88	06/17/88	06/20/88	11/15/88	11/22/88

*11/27/88*

8812010180 881122  
PDR ADDCK 05000277  
P PDC

*DFD*  
*11*

*10*  
*88*

Docket No. 50-277

Mr. William M. Alden  
Director-Licensing  
Philadelphia Electric Company  
2301 Market Street  
Philadelphia, Pennsylvania 19101

Dear Mr. Alden:

SUBJECT: REVISION OF MAPLHGR FIGURES (TAC NO. 68324)

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Sincerely,

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

Enclosures:

1. Amendment No. to License No. DPR-44
2. Safety Evaluation

cc w/enclosures:  
See next page

Previously concurred\*

PDI-2/PA  
MO'Brien  
/ 88

PDI-2/PM\*  
REMartin:tr  
06/17/88

RSB\*  
WHodges  
06/20/88

OGC  
*Beth*  
11/25/88

PDI-2/D  
WButler  
/ /88

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Philadelphia Electric Company  
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RClark	<del>Tech Branch</del> <i>HRichings</i>
MO'Brien	EButcher
BClayton	BGrimes
	RGallo
	<i>W.Hodges-RSB</i>

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Sincerely,

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

Enclosures:

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2. Safety Evaluation

cc w/enclosures:  
See next page

PDI-2/LA  
MO'Brien  
/ 1/88

*RE*  
PDI-2/PM  
REMartin:tr  
06/17/88

RSB *mm*  
WHodges  
6/20/88

OGC  
/ 1/88

PDI-2/D  
WButler  
/ 1/88

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 139, 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

George W. Rivenbark /S/ for

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 22, 1988

*[Handwritten signature]*  
PDI-2/D  
WButler  
11/22/88

*[Handwritten signature]*  
PDI-2/PM  
REMartin:tr  
06/17/88

*[Handwritten signature]*  
OGC  
11/25/88

*[Handwritten signature]*  
PDI-2/D  
WButler  
11/22/88

November 22, 1988

Docket No. 50-277

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Mr. George A. Hunger, Jr.  
Director-Licensing  
Philadelphia Electric Company  
2301 Market Street  
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SUBJECT: REVISION OF MAPLHGR FIGURES (TAC NO. 68324)

RE: PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 2

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This amendment revises Technical Specification Figures 3.5.1.M and 3.5.1.N. to correct errors and to revise nomenclature used on these figures when they were previously revised in amendment number 123. The curve on these figures showing the limiting values of maximum average planar linear heat generation rate (MAPLHGR) is revised to agree with the printed values on the Figures which are correct and are unchanged by the amendment.

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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. 139 to License No. DPR-44
2. Safety Evaluation

cc w/enclosures:

See next page

Previously concurred\*

GRivenbark  
for

PDI-2/LA*	PDI-2/PM*	RSB*	OGC*	PDI-2/D*
MO'Brien	REMartin:tr	WHodges	CBarth	WButler
10/20/88	06/17/88	06/20/88	11/15/88	11/22/88

✓ 11/22/88

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Sincerely,

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

Enclosures:

1. Amendment No. to License No. DPR-44
2. Safety Evaluation

cc w/enclosures:  
See next page

Previously concurred\*

PDI-2/PA  
MO'Brien  
10/18/88

PDI-2/PM\*  
REMartin:tr  
06/17/88

RSB\*  
WHodges  
06/20/88

OGC  
*Beth*  
11/25/88

PDI-2/D  
WButler  
1/188

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RClark ~~Tech Branch~~ *Hickings*  
MO'Brien EButcher  
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*W. H. Jones*

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Sincerely,

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

Enclosures:

- 1. Amendment No. to License No. DPR-44
- 2. Safety Evaluation

cc w/enclosures:  
See next page

PDI-2/LA  
MO'Brien  
/ 1/88

*REM*  
PDI-2/ARM  
REMartin:tr  
06/17/88

RSB *must*  
WHodges  
6/20/88

OGC  
/ 1/88

PDI-2/D  
WButler  
/ 1/88

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 139, 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

George W. Rivenbark /S/ for

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 22, 1988

PDI-2/D  
MR Brien  
10/20/88

PDI-2/PM  
RE Martin:tr  
06/17/88

OGC  
WB  
11/25/88

PDI-2/D  
WButler  
11/22/88

WB



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

November 22, 1988

Docket No. 50-277

Mr. George A. Hunger, Jr.  
Director-Licensing  
Philadelphia Electric Company  
2301 Market Street  
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Sincerely,

A handwritten signature in cursive script that reads "Robert Martin".

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

Enclosures:

1. Amendment No. 139 to License No. DPR-44
2. 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:

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

Philadelphia Electric Company  
ATTN: Mr. D. M. Smith, Vice President  
Peach Bottom Atomic Power Station  
Route 1, Box 208  
Delta, Pennsylvania 17314

H. Chris Schwemm  
Vice President, Production  
Atlantic Electric  
P.O. Box 1500  
1199 Black Horse Pike  
Pleasantville, New Jersey 08232

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  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

Mr. Bryan W. Gorman  
Manager - External Affairs  
Public Service Electric & Gas Company  
P.O. Box 236, N28  
Hancocks Bridge, New Jersey 08038

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

Mr. Thomas M. Gerusky, Director  
Bureau of Radiation Protection  
Pennsylvania Department of  
Environmental Resources  
P. O. Box 2063  
Harrisburg, Pennsylvania 17120

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

Mr. Gary Mock  
P. O. Box 09181  
Columbus, Ohio 43209

Delmarva Power and Light Company  
c/o Jack Urban  
General Manager, Fuel Supply  
800 King Street  
P.O. Box 231  
Wilmington, DE 19899

Mr. Tom Magette  
Power Plant Research Program  
Department of Natural Resources  
B-3  
Tawes State Office Building  
Annapolis, Maryland 21401

Mr. Roland Fletcher  
Department of Environment  
201 West Preston Street  
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. 139  
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 April 21, 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-44 is hereby amended to read as follows:

8812010182 881122  
PDR ADOCK 05000277  
P PIC

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 139, 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



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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 22, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 139

FACILITY OPERATING LICENSE NO. DPR-44

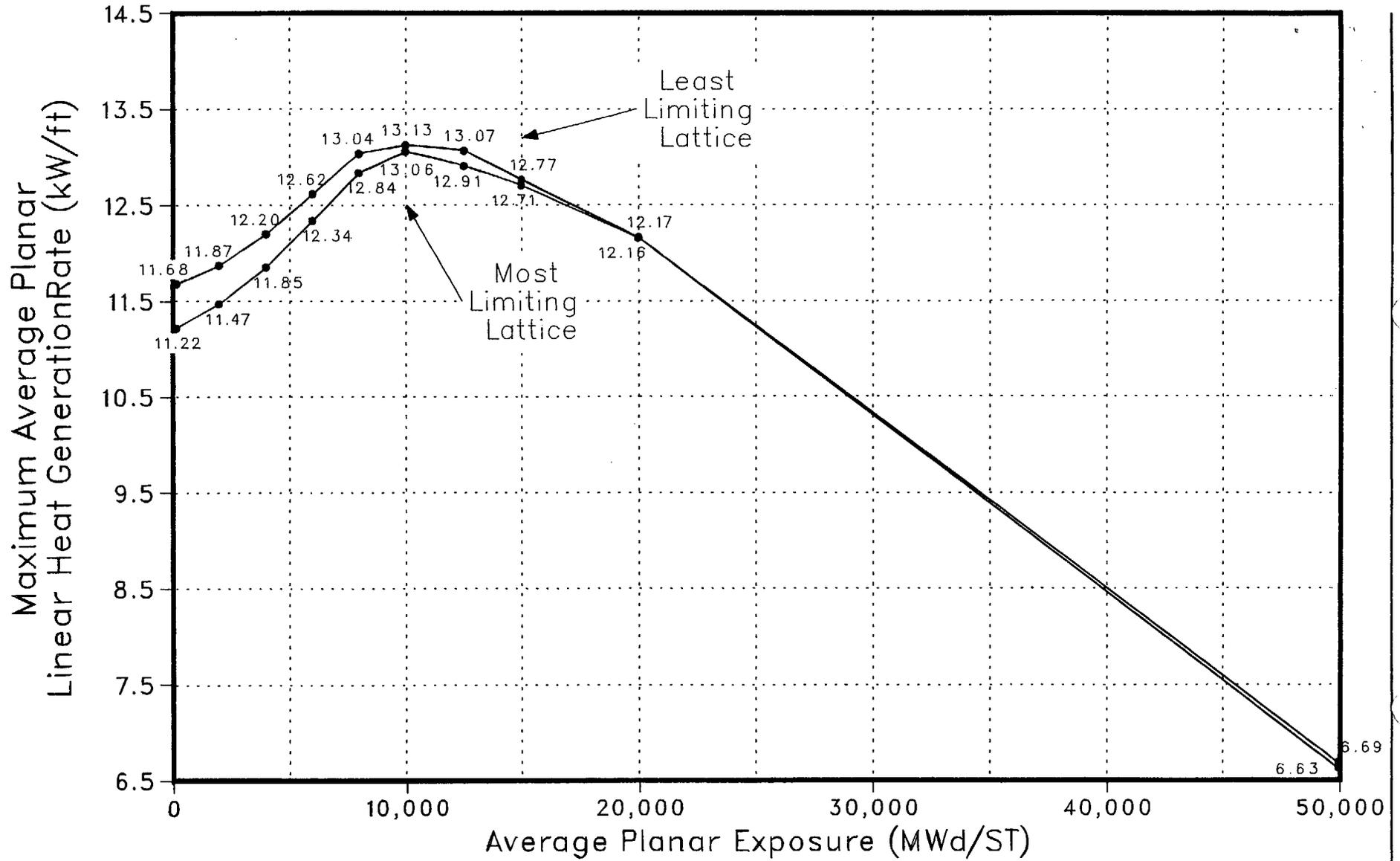
DOCKET NO. 50-277

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

Pages

1421

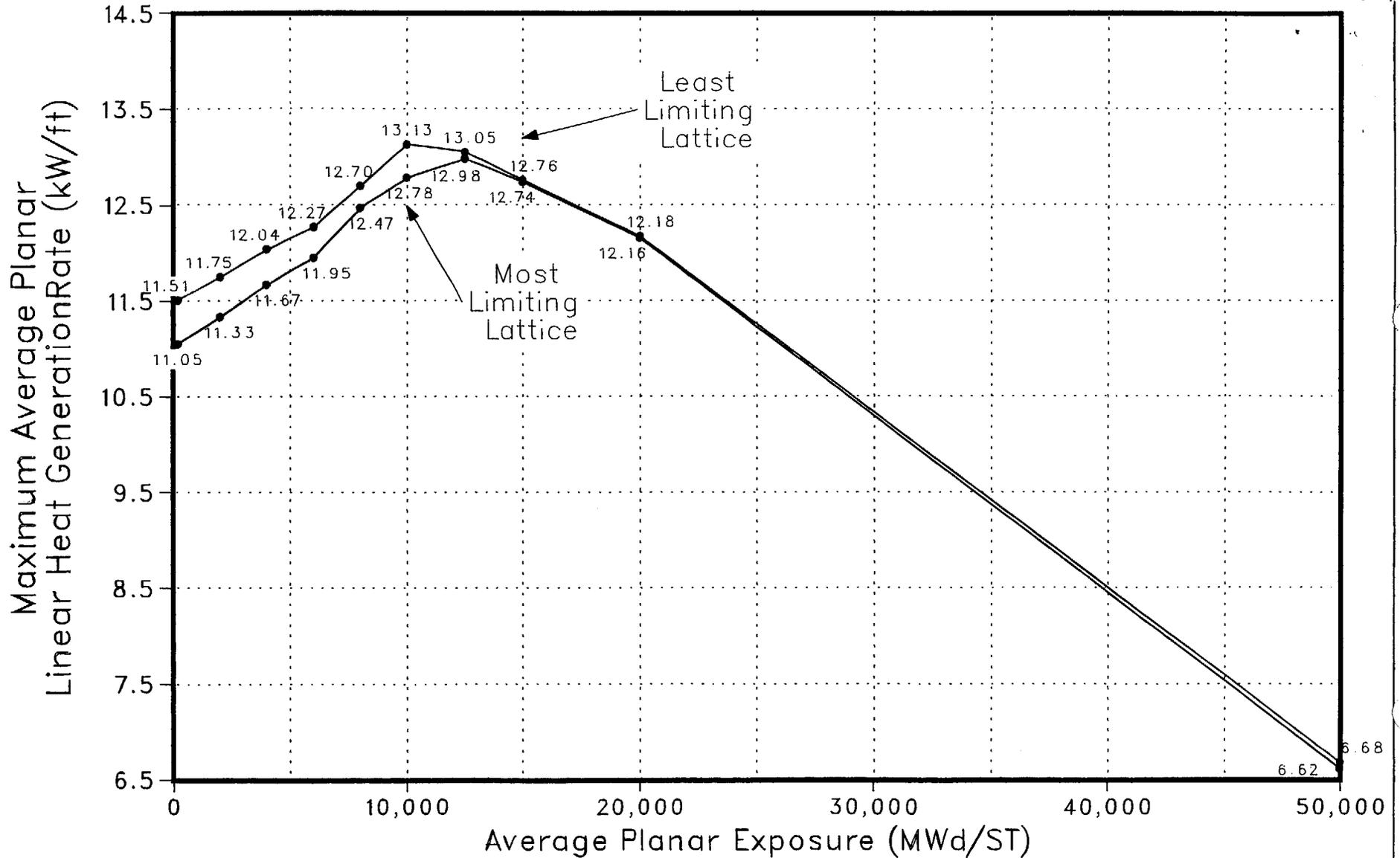
142m



MAXIMUM AVERAGE PLANAR LINEAR HEAT GENERATION RATE (MAPLHGR) VERSUS AVERAGE PLANAR EXPOSURE FOR FUEL TYPE BD319A (GE8X8EB)

PBAPS UNIT 2

FIGURE 3.5.1M



MAXIMUM AVERAGE PLANAR LINEAR HEAT GENERATION RATE (MAPLHGR) VERSUS AVERAGE PLANAR EXPOSURE FOR FUEL TYPE BD321A (GE8X8EB)

PBAPS UNIT 2

FIGURE 3.5.1.N



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION SUPPORTING

AMENDMENT NO. 139 TO FACILITY OPERATING LICENSE NO. DPR-44

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

PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 2

DOCKET NO. 50-277

1.0 INTRODUCTION

By letter dated April 21, 1988, Philadelphia Electric Company requested an amendment to Facility Operating License No. DPR-44 for the Peach Bottom Atomic Power Station, Unit No. 2. The proposed amendment would revise Figures 3.5.1.M and 3.5.1.N of the Technical Specifications to correct errors and to revise nomenclature. These figures show the most limiting and the least limiting values of the maximum average planar linear heat generation rate (MAPLHGR) for two of the fuel types (BD319A, BD321A) to be used in Unit 2 for cycle eight. These figures were issued with Amendment No. 123 to the Unit 2 operating license on September 11, 1987. The figures include curves showing the limiting MAPLHGR values versus exposure and also include printed numerical values at various points on the curves. The licensee states that the curve on Figure 3.5.1.M for BD319A fuel is incorrect; however, the printed values are correct. The licensee states that the curve on Figure 3.5.1.N for BD321A is incorrect. The printed values are correct except for the 12.17 value which is revised to a value of 12.18 as specified in the referenced General Electric report. The licensee proposes to replace these figures with ones which show the correct shape of the curve as well as the printed values. The corrections to the figures also include changes to reflect that the MAPLHGR values shown are for the most and least limiting lattices versus the most and least limiting MAPLHGR nomenclature as used previously.

2.0 EVALUATION

Technical Specification changes related to the core reload to be used in fuel cycle no. 8 for Unit 2 were evaluated in the safety evaluation included with Amendment No. 123 which was issued on September 11, 1987. These changes included incorporation of the operating limits for all fuel types for cycle 8 operation, specifically the MAPLHGR limits for types BD319A, BD321A and LTA310 on pages 142l, 142m and 142n. These figures include curves as well as printed values of the limiting MAPLHGR versus exposure. In preparing the figures for fuel types BD319A and BD321A the licensee inadvertently used the same shaped curves as for fuel type LTA

310; however, the printed values were correct, with one minor exception, for each of the three fuel types. The licensee has assessed the safety significance of this error as follows:

During normal operation, the process computer contains, and acts on, the full details of lattice specific MAPLHGR limits. The MAPLHGR values presented on pages 142-1, 142-m and 142-n are primarily for information only. In the event that hand calculations of MAPLHGR are required (process computer inoperative), the most limiting values as shown on Pages 142-1 and 142-m are used for all limits. The correct most limiting values were printed on both graphs. The one incorrect printed value is on a least limiting curve which would not be used to manually determine operating limits. If an operator used the most limiting curve to manually determine MAPLHGR, and chose values from the ordinate of the graph rather than the printed values, incorrect limits would have been used. However, those limits would have been even more restrictive than the correct limits. Based on the above, these errors posed no safety significance. Therefore, correction of these errors is purely administrative in nature. Furthermore, Unit 2 has not operated in accordance with these revised Technical Specifications (Amendment 123) because Cycle 8 has not begun.

The staff has reviewed the licensee's assessment and finds that the proposed correction of the Technical Specification figures is acceptable. The corrected figures will now include both printed values and curves that reflect the results of safety analyses that were previously reviewed and approved with the issuance of Amendment No. 123.

### 3.0 ENVIRONMENTAL CONSIDERATIONS

This amendment involves administrative changes 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 amendment involves 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets 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 this amendment.

### 4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (53 FR 24513) on June 29, 1988 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 amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: Robert E. Martin

Dated: November 22, 1988