10 CFR 50.90

PHILADELPHIA ELECTRIC COMPANY

NUCLEAR GROUP HEADQUARTERS

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January 22, 1991

Docket Nos. 50-277
50-278

License Nos. DPR-44
DPR-56

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

SUBJECT: Peach Bottom Atomic Power Station, Units 2 & 3
Technical Specifications Change Request (TSCR)
Submitted December 17, 1990 (No. 90-11)

Dear Sir:

The subject Peach Bottom Atomic Power Station TSCR involved Minimum Critical Power Ratio (MCPR) Safety Limit changes required for Unit 2 and Unit 3 Cycle 9 operation and miscellaneous administrative changes. In a telephone conversation on January 17, 1991, the NRC Project Manager requested additional information about the Unit 2 and Unit 3 Cycle 9 reactor fuel. Accordingly, the tables below show the number of bundles of each fuel type that will be used in Unit 2 and Unit 3 Cycle 9. Also shown is the corresponding MCPR Safety Limit for each fuel type as specified in Table 4-2 of "General Electric Standard Application for Reactor Fuel," (GESTAR) NEDE-24011-P-A, with the exception of the lead test assemblies (LTAs) from the Unit 2 Cycle reload (LTA 310) and qualification fuel bundles (QFBs) that will be included in the Unit 2 Cycle 9 reload (SVEA-96 and 9x9-9X+). The LTAs and QFBs were designed to be compatible with the standard reload bundles and have been demonstrated by analysis to be bounded by the thermal limits of the standard reload bundles with considerable margin. PECo has also committed to operate these bundles in non-limiting core positions to provide even greater margin. Therefore, the LTAs and QFBs have no bearing on the determination of the appropriate core-wide MCPR Safety Limit.

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Unit 2 Cycle 9

FUEL TYPE	CYCLE LOADED	QUANTITY	MCPR SAFETY LIMIT
High Bundle R-factor P8x8R (P8DRB285)	6	16	1.04
High Bundle R-factor P8x8R (P8DRB299)	6	25	1.04
High Bundle R-factor BP8x8R (BP8DRB299)	7	136	1.04
High Bundle R-factor BP8x8R (BP8DRB299H)	7	155	1.04
LTA310 (GE9B LTA)	8	4	(note 1)
High Bundle R-factor GE8x8EB (BD319A)	8	64	1.04
High Bundle R-factor GE8x8EB (BD321A)	8	204	1.04
GE8x8NB (GE9B-P8DWB320-10GZ-80M-150-T)	9	148	1.06
LUA307 (GE11 QFB)	9	4	(note 2)
SVEA-96 (ABB Atom, Inc. QFB)	9	4	(note 2)
9x9-9X+ (ANF Corp. QFB)	9	4	(note 2)
		764 total	

Notes:

1) See NRC Safety Evaluation Report for Amendment 123 (Cycle 8 reload) to the Unit 2 Technical Specifications, dated September 11, 1987.

2) See PECo letter to NRC concerning QFBs, dated November 21, 1990.

Because one MCPR Safety Limit is applied to the entire core, the most limiting fuel type determines the MCPR Safety Limit value. For Unit 2 Cycle 9, therefore, the MCPR Safety Limit for GE8x8NB fuel, 1.06, was selected. It should be noted that the Unit 2 Cycle 8 MCPR Safety Limit was 1.07, rather than the less restrictive approved value of 1.04 which GESTAR specifies for the Cycle 8 fuel as shown in the above table. The less restrictive value was approved after Cycle 8 commenced.

Unit 3 Cycle 9

FUEL TYPE	CYCLE LOADED	QUANTITY*	MCPR SAFETY LIMIT
High Bundle R-factor P8x8R (P8DRB299)	6	32	1.04
High Bundle R-factor BP8x8R (BP8DRB299)	7	144	1.04
High Bundle R-factor BP8x8R (BP8DRB299H)	7	140	1.04
High Bundle R-factor GE8x8EB (BD319A)	8	48	1.04
High Bundle R-factor GE8x8EB (BD321A)	8	144	1.04
GE8x8NB GE9B-P8DWB324-10GZ1-80M-150-T	9	168	1.06
GE8x8NB GE9B-P8DWB328-11GZ-80M-150-T	9	88	1.06
		764 Total	

* Preliminary core inventory

It has also come to our attention that Unit 2 Technical Specifications page 256a and Unit 3 Technical Specifications pages 17 and 256a enclosed with TSCR No. 90-11 contained editorial errors. Corrected pages are attached, and we hereby incorporate these corrected pages into the TSCR. We regret our error and any inconvenience it may have caused you.

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

G. J. Beck
Manager
Licensing Section
Nuclear Engineering & Services

Attachments

cc: T. T. Martin, Administrator, Region I, USNRC
J. J. Lyash, USNRC Senior Resident Inspector, PBAPS
T. M. Gerusky, Commonwealth of Pennsylvania

COMMONWEALTH OF PENNSYLVANIA:

: ss.

COUNTY OF CHESTER :

D. R. Helwig, being first duly sworn, deposes and says:

That he is Vice President of Philadelphia Electric Company; that he has read the foregoing supplement to TSCR No. 90-11 for Peach Bottom Atomic Power Station, and knows the contents thereof; and that the statements and matters set forth therein are true and correct to the best of his knowledge, information and belief.

D R Helwig

Vice President

Subscribed and sworn to
before me this 23rd day
of January 1991.

Catherine A Mendez

Notary Public

NOTARIAL SEAL
CATHERINE A. MENDEZ, Notary Public
Tredyffrin Twp., Chester County
My Commission Expires Sept. 4, 1993