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 AUTH.NAME AUTHOR AFFILIATION
 KEISER,H.W. Pennsylvania Power & Light Co. *See Proposed Change*
 RECIP.NAME RECIPIENT AFFILIATION *To Tech Spec.*
 MILLER,C.L. Project Directorate I-2

SUBJECT: Forwards proposed amend 105 to linense NPF-22 revising TS
 to support Unit 2 cycle 6 reload.

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101-1179 • 215/774-5151

June 30, 1992

Harold W. Keiser
Senior Vice President-Nuclear
215/774-4194

Director of Nuclear Reactor Regulation
Attention: Mr. C.L. Miller, Project Director
Project Directorate I-2
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

**SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED AMENDMENT 105 TO LICENSE
NO. NPF-22: UNIT 2 CYCLE 6 RELOAD
PLA-3787 FILES A7-8C/A17-2//R41-2**

Docket No. 50-388

Dear Mr. Miller:

The purpose of this letter is to propose changes to the Susquehanna SES Unit 2 Technical Specifications in support of the ensuing Cycle 6 reload. Changes to the following Technical Specifications and bases are requested:

- Index
- B 2.1 Safety Limits
- 3/4.2.1 Average Planar Linear Heat Generation Rate
- 3/4.2.2 APRM Setpoints
- 3/4.2.3 Minimum Critical Power Ratio
- 3/4.2.4 Linear Heat Generation Rate
- 3/4.4.1 Recirculation System
- B 3/4.1 Reactivity Control Systems
- B 3/4.2 Power Distribution Limits
- B 3/4.4.1 Recirculation System
- 5.3.1 Fuel Assemblies

The following attachments to this letter are provided to illustrate and technically support each of the changes:

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- Marked-up Technical Specification Changes
- No Significant Hazards Considerations
- PL-NF-92-001, "Susquehanna SES Unit 2 Cycle 6 Reload Summary Report," June, 1992
- Susquehanna SES Unit 2 Cycle 6 Proposed Startup Physics Tests Summary Description, June, 1992

In addition to the normal analyses and considerations for Unit 2 Cycle 6, the following specific analyses and issues deserve special mention:

- 1) This is the first Unit 2 reload cycle that was analyzed using PP&L's safety analysis methods (PL-NF-89-005 and PL-NF-90-001 and the applicable SER's). Siemens Nuclear Power Corporation (SNP) provided some supporting analyses. This is the third reload cycle for Unit 2 that was designed using PP&L's NRC approved Steady State Physics methods (PL-NF-87-001-A). Additional discussion and results of PP&L's safety analyses are provided in the attached Unit 2 Cycle 6 Reload Summary Report.
- 2) Four previously discharged Unit 2 Cycle 2 (XN-1) fuel assemblies will be reinserted into the core to receive their fourth cycle of irradiation. The purpose of reinserting the XN-1 assemblies is to demonstrate that extending the exposure limits on SNP 9x9-2 is acceptable. The attached Reload Summary Report, Appendix A provides the justification for extending the exposure on these four assemblies.
- 3) The Unit 2 Cycle 6 power/flow map stability regions from the Interim Requirements specified in Attachment 1 to NRC Bulletin 88-07 Supplement 1 were incorporated into the proposed Technical Specifications. This approach was determined to be justified based on the analysis of the stability test data collected at Susquehanna SES which demonstrated that 9x9 fuel does not produce significant changes in stability behavior as compared to BWRs loaded with standard 8x8 fuel. A report from Oak Ridge National Laboratory (see Reload Summary Report, Reference 19), an NRC consultant, provided the same conclusion based on their analysis of the Susquehanna SES stability test data.

Susquehanna SES Unit 2 is currently scheduled to be shut down for refueling and inspection on September 12, 1992 and to restart as early as November 13, 1992.

We request that your approval of the attached proposed Technical Specifications supporting U2C6 operation be conditioned to become effective upon startup after this outage, and we will keep you informed of any schedule changes. Any questions regarding this proposed amendment should be directed to Mr. A. K. Maron at (215) 774-7852.

Very truly yours,



H. W. Keiser

Attachments

cc: NRC Document Control Desk (original)
NRC Region I
Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES
Mr. G. F. Maxwell, Acting NRC Project Manager - Rockville
Mr. W. P. Dornsife, Pennsylvania DER