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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania

AUTH. NAME: KEISER, H.W. AUTHORITY AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: MILLER, C.L. RECIPIENT AFFILIATION: Project Directorate I-2

SUBJECT: Forwards Proposed Amend 150 to License NPF-14, revising listed TSS & bases to support Cycle 7 reload.

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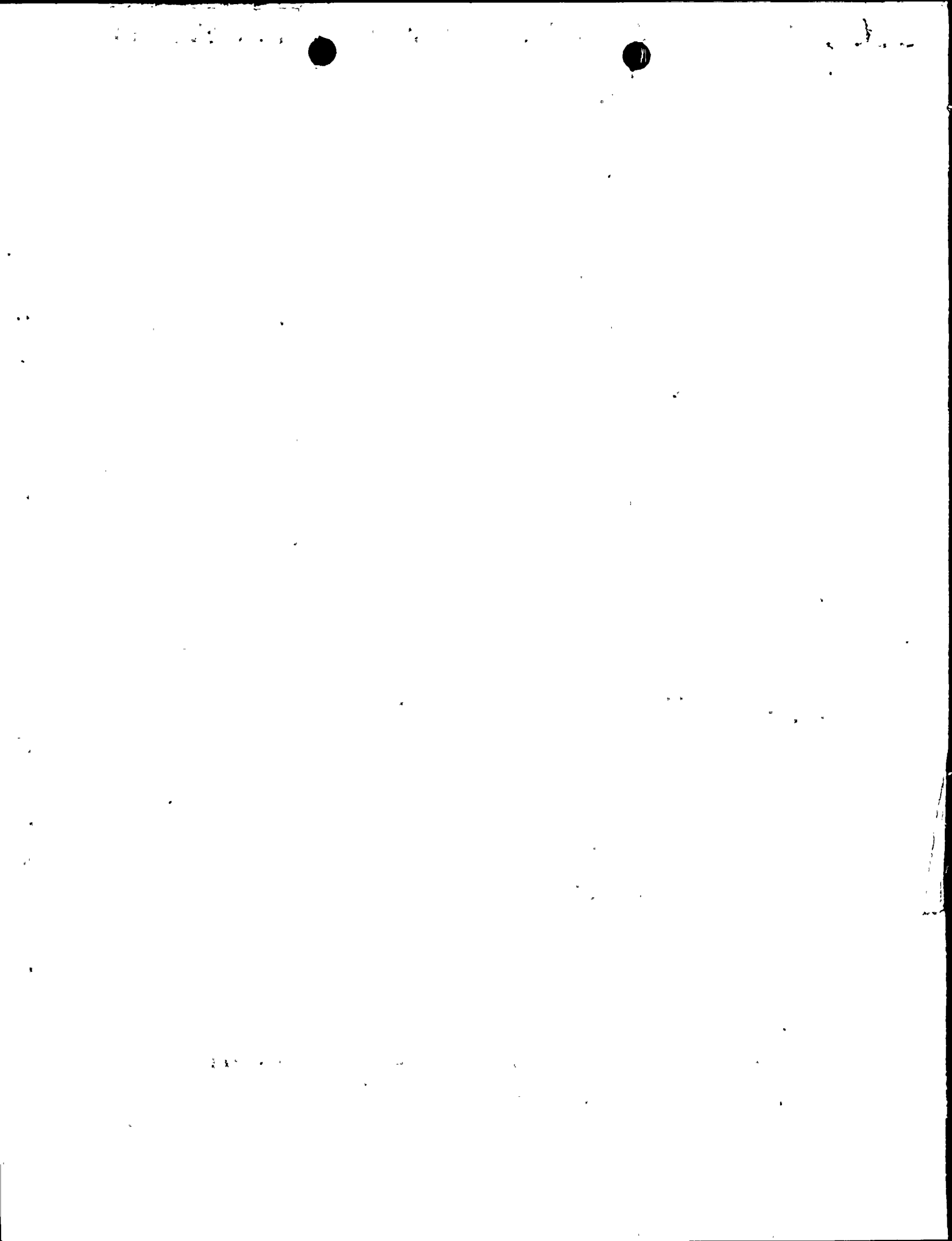
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Pennsylvania Power & Light Company

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DEC 11 1991

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 150 TO LICENSE
NO. NPF-14: UNIT 1 CYCLE 7 RELOAD
PLA-3698 FILES A7-8C/A17-2//R41-2**

Docket No. 50-387

Dear Mr. Miller:

The purpose of this letter is to propose changes to the Susquehanna SES Unit 1 Technical Specifications in support of the ensuing Cycle 7 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:

- Marked-up Technical Specification Changes
- No Significant Hazards Considerations

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11 Add: NRR Chatterton *Mr. Keiser*

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- PL-NF-91-007, "Susquehanna SES Unit 1 Cycle 7 Reload Summary Report," November, 1991
- Susquehanna SES Unit 1 Cycle 7 Proposed Startup Physics Tests Summary Description, November, 1991

In addition to the normal analyses and considerations for Unit 1 Cycle 7, the following specific analyses and issues deserve special mention:

- 1) This is the first reload cycle that was analyzed using PP&L's safety analysis methods, PL-NF-89-005 (currently undergoing final NRC review), and PL-NF-90-001 (approved by NRC letter dated November 21, 1991). Siemens Nuclear Power (SNP) provided some supporting analyses. This is the third reload cycle for Unit 1 that was designed by PP&L using 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 1 Cycle 7 Reload Summary Report.

It is PP&L's understanding that one issue remains open in the NRC review of PL-NF-89-005. As discussed in a telecon with the staff on December 10, 1991, PP&L will submit the information necessary to close this issue by January 31, 1992.

- 2) The Fuel Handling Accident presented in FSAR Chapter 15.7.4 only analyzed a single fuel assembly being dropped onto the core. This has been extended to include the fuel handling grapple falling with the dropped fuel assembly as well as evaluating up to an 1100 pound object falling on the fuel in the core. The consequences of these new analyses are much less than 25% of the 10CFR100 limits. This issue is addressed in the Unit 1 Cycle 7 Reload Summary Report.

Susquehanna SES Unit 1 is currently scheduled to be shutdown for refueling and inspection on March 7, 1992 and to restart as early as May 8, 1992.

We request that your approval of the attached proposed Technical Specifications supporting U1C7 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. R. Sgarro at (215) 774-7916.

Very truly yours,



H. W. Keiser

Attachments

CONFIDENTIAL - SECURITY INFORMATION

cc: ~~NRC-Document-Control-Desk~~(original)
NRC Region I
Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES
Mr. J. J. Raleigh, NRC Project Manager - Rockville
Mr. L. I. Kopp, NRC/SRXB - Rockville
Mr. T. M. Gerusky, Pennsylvania DER

