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SUBJECT: Forwards application for amend to license NPF-22, replacing ANFB correlation & referenced 4 & 5 methodology w/NRC approved ANFB-10 correlation for analyzing ATRIUM-10 fuel.

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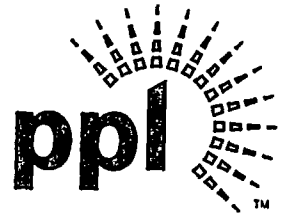
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**SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED AMENDMENT NO. 184 TO LICENSE NPF-22:
ANFB-10 CRITICAL POWER CORRELATION AND
MCPR SAFETY LIMITS
PLA-4946**

FILES R41-1/A17-2

Docket No. 50-388

- References:
1. EMF-1997 (P), Revision 0 (October 1997) and Supplement 1, Revision 0 (January 1998), "ANFB-10 Critical Power Correlation," and associated NRC SER dated 7/17/98.
 2. ANF-1125 (P)(A) and ANF-1125 (P)(A), Supplement 1, "ANFB Critical Power Correlation," April 1990.
 3. PL-NF-90-001-A, "Application of Reactor Analysis Methods for BWR Design and Analysis," July 1992, plus Supplements 1-A (August 1995) and 2-A (July 1996).
 4. EMF-97-010(P), Rev. 1, "Application of ANFB to ATRIUM™-10 for Susquehanna Reloads", March 1997.
 5. PLA-4595, "Response to NRC Request for Additional Information on Siemens' Report EMF-97-010, Revision 1," March 27, 1997.
 6. ANF-524(P)(A), Revision 2 and Supplement 1, Revision 2, "Advanced Nuclear Fuels Corporation Critical Power Methodology for Boiling Water Reactors," November 1990.

The purpose of this letter is to propose changes to the Susquehanna Steam Electric Station Unit 2 Technical Specifications. This amendment has been submitted in Improved Technical Specifications format. Reference 1 documents a critical power correlation applicable to Siemens Power Corporation (SPC) ATRIUM™-10 fuel (referred to as ANFB-10), that has recently received NRC approval. This proposed change entails the inclusion of Reference 1 in Section 5.6.5 and the inclusion of revised MCPR Safety Limits in Section 2.1.1.2. An administrative change to Section 5.6.5 is included. A number of references from Section 5.6.5 are removed in order to include only those references that directly support the generation of Core Operating Limits. Associated BASES changes are also included.

The ANFB-10 correlation will be used in the analysis of ATRIUM™-10 fuel in place of the ANFB critical power correlation and methodology described in References 4 and 5. The ANFB correlation (Reference 2) will continue to be used in the analysis of SPC 9x9-2 fuel. The ANFB (for 9x9-2) and ANFB-10 (for ATRIUM™-10) correlations will be used with PP&L's and SPC's NRC approved methods, and analyses will be performed (consistent with those methods) to generate Core Operating Limits. Therefore, PP&L will not be submitting a change to its NRC-

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approved Topical Reports (Reference 3) since the methodology is the same except the NRC approved ANFB-10 correlation will be used to analyze ATRIUMTM-10 fuel.

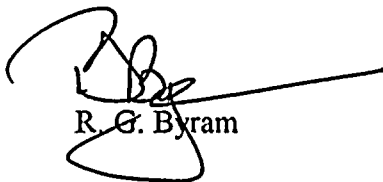
SPC report EMF-1997(P), Rev. 0 and Supplement 1, Rev. 0 (proposed to be added to the Technical Specification Administrative section) describes the ANFB-10 critical power correlation, which has recently been approved by the NRC.

Enclosure A to this letter is the "Safety Assessment" supporting this change. Enclosure B is the "No Significant Hazards Considerations and Environmental Assessment" evaluation performed in accordance with the criteria of 10 CFR 50.92. Enclosure C to this letter contains the applicable pages of the Susquehanna SES Unit 2 Technical Specifications, marked to show the proposed changes as well as the associated BASES changes. The proposed changes have been approved by the Susquehanna SES Plant Operations Review Committee and reviewed by the Susquehanna Review Committee.

PP&L plans to implement the proposed changes in April 1999 to support the startup of Unit 2 Cycle 10 operation. Therefore, we request NRC complete its review of this change by January 15, 1999 with the changes effective upon startup following the Unit 2 9th Refueling and Inspection Outage to support our scheduled implementation date.

Any questions regarding this request should be directed to Mr. R. R. Sgarro at (610) 774-7552.

Sincerely,



R. G. Byram

Attachments

copy: NRC Region I
Mr. V. Nerses, NRC Sr. Project Manager - OWFN
Mr. K. M. Jenison, NRC Sr. Resident Inspector - SSES
Mr. K. Kerns, Pa. DEP