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SUBJECT: Forwards application for amend to license & TS, supporting schedule use of Siemens Power Corp ATRIUM-10 fuel in upcoming Cycle 11. Cycle 11 reload will introduce ATRIUM-10 fuel into reactor core.

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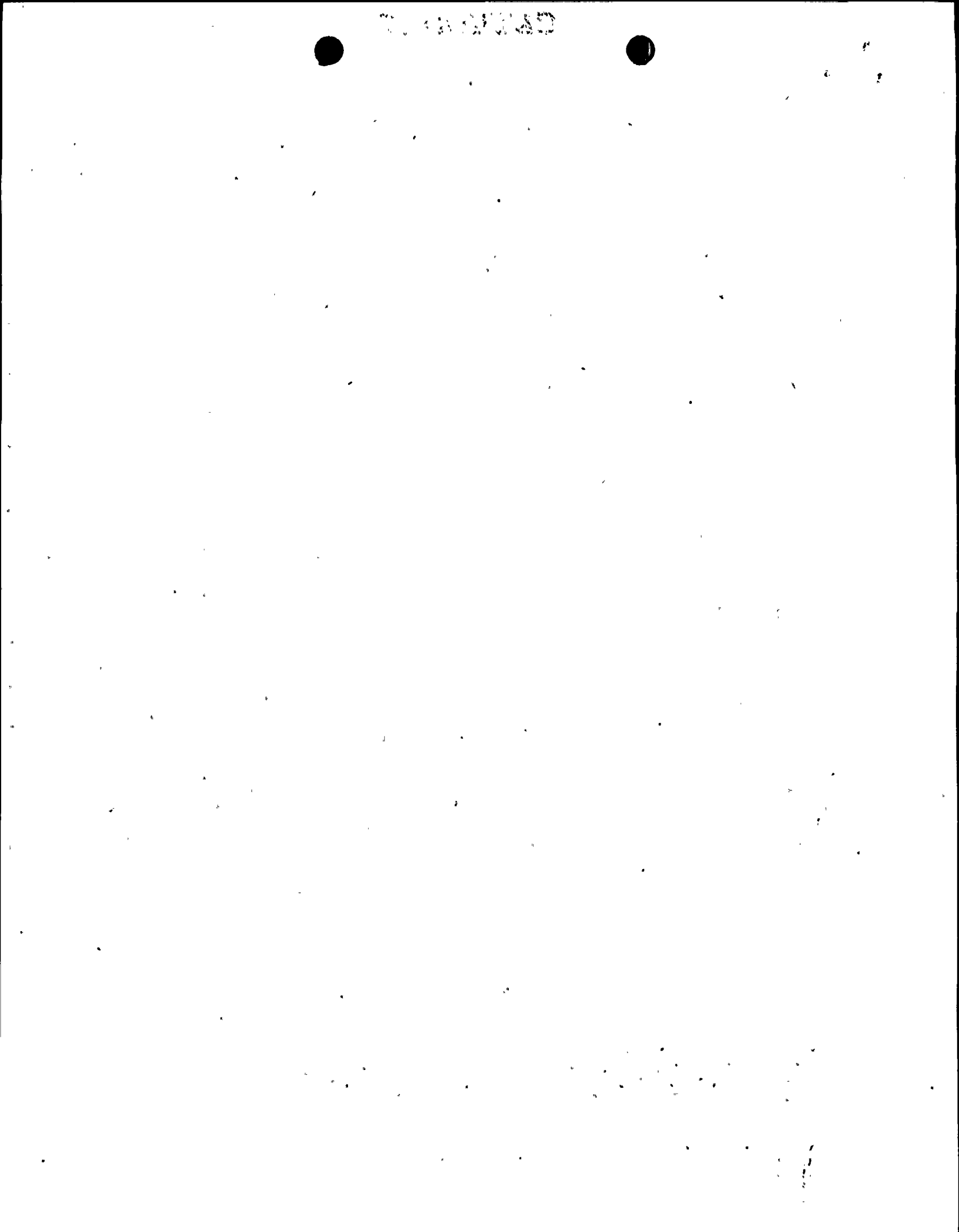
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**SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED AMENDMENT NO. 209 TO LICENSE NPF-14:
UNIT 1 TECHNICAL SPECIFICATION CHANGES FOR ATRIUM™-10
PLA-4664**

FILES R41-1/A17-2

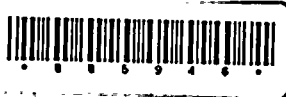
Docket No. 50-387

- References: 1. EMF-97-010(P), Rev. 1, "Application of ANFB to ATRIUM™-10 for Susquehanna Reloads," March 1997.
2. PLA-4595, "Response to Request for Additional Information on Siemens' Report EMF-97-010," March 27, 1997.
3. Letter from Chester Poslusny (NRC) to Robert G. Byram (PP&L), "Susquehanna Steam Electric Station, Unit 2 (TAC NO. M97499)," May 7, 1997.

The purpose of this letter is to propose changes to the Susquehanna Steam Electric Station Unit 1 Technical Specifications to support the scheduled use of Siemens Power Corporation (SPC) ATRIUM™-10 fuel in the upcoming Cycle 11. The Cycle 11 reload will introduce ATRIUM™-10 fuel into the reactor core. The ATRIUM™-10 fuel design is a 10x10 lattice design. With the exception of the proposed use of revised MCPR methodology for ATRIUM™-10 fuel, the ATRIUM™-10 design has been analyzed according to NRC approved methodology and meets the applicable safety criteria. The proposed change entails changes to the Definitions (Section 1.0), the MCPR Safety Limit values (Sections 2.1 and 3/4.4), the Design Features (Section 5.3), and the Administrative Controls (addition of methodology references to Section 6.9.3.2). Associated BASES changes are also included.

To support operation of Unit 1 Cycle 11, PP&L requests approval to utilize the same ANFB MCPR methodology (References 1 and 2) that was approved for use in Unit 2 Cycle 9 (Reference 3). The proposed Unit 1 Cycle 11 MCPR Safety Limits were derived using this methodology. Also, the PP&L transient CPR analyses will be performed with the Reference 1 & 2 methodology, incorporating ANFB's flow dependence into PP&L's licensing codes using the "direct approach" described in Response 1 of Reference 2.

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SPC is currently engaged in an effort to revise the ANFB correlation for ATRIUM™-10 fuel. Upon NRC approval of this revised critical power correlation, PP&L plans to submit a subsequent proposed Technical Specification change to include this new methodology.

Enclosure A to this letter is the "Safety Assessment" supporting this change. Enclosure B to this letter is the "No Significant Hazards Considerations" evaluation performed in accordance with the criteria of 10 CFR 50.92. The proposed changes have been approved by the Susquehanna SES Plant Operations Review Committee and reviewed by the Susquehanna Review Committee. Enclosure C to this letter is the current pages of the Susquehanna SES Unit 1 Technical Specifications marked to show the proposed changes.

PP&L plans to implement the proposed changes in April 1998 to support Cycle 11 operation. Therefore, we ask that NRC complete the review of this change request by January 30, 1998 to support our scheduled implementation dates.

Any questions regarding this request should be directed to Mr. Anthony J. Roscioli at (610) 774-4019.

Very truly yours,


R. G. Byram
Attachments

copy: NRC Region I
Mr. C. Poslusny, Jr., NRC Sr. Project Manager - OWFN
Mr. K. M. Jenison, NRC Sr. Resident Inspector - SSES
Mr. W. P. Dornsife, Pa. DEP