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SUBJECT: Forwards for review & approval TR P1-NF-90-001, Suppl 2,  
 "Application Of Reactor Analysis Methods For BWR Design  
 & Analysis." O

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AUG 01 1995

U.S. Nuclear Regulatory Commission  
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SUSQUEHANNA STEAM ELECTRIC STATION  
REQUEST FOR REVIEW OF TOPICAL REPORT  
PL-NF-90-001, SUPPLEMENT 2  
PLA-4348 FILE NOS. A17-2/R41-2

Docket Nos. 50-387  
and 50-388

- References:
1. PL-NF-87-001-A, "Qualification of Steady State Core Physics Methods for BWR Design and Analysis," July 1992.
  2. PL-NF-89-005-A, "Qualification of Transient Analysis Methods for BWR Design and Analysis," July 1992.
  3. PL-NF-90-001, Supplement 1-A, "Application of Reactor Analysis Methods for BWR design and Analysis," SER issued February 28 1995.

Enclosed for NRC review and approval is the Pennsylvania Power and Light Company (PP&L) Topical Report PL-NF-90-001, Supplement 2, "Application of Reactor Analysis Methods for BWR Design and Analysis - CASMO-3G Code and ANF-B Critical Power Correlation." This report provides benchmarking results using the CASMO-3G lattice physics computer code which demonstrate its applicability to the Susquehanna units. PP&L's intended use of CASMO-3G as an alternative to use of the CPM-2 lattice physics computer code is described. Also described are modifications to PP&L's licensing analysis methods to use the Siemens Power Corporation (SPC) ANF-B critical power correlation. The ANF-B correlation is based on more data and applies to more fuel designs (particularly advanced SPC designs) than the currently used XN-3 critical power correlation, which is currently used in PP&L's NRC approved BWR design and analysis methodology (References 1, 2, and 3). The use of CASMO-3G and ANF-B in reload design and licensing applications has previously been approved by the NRC for Siemens Power Corporation (SPC), and PP&L is requesting NRC approval to use CASMO-3G and ANF-B in similar design and licensing analyses.

PP&L is requesting NRC approval of the attached report by January 2, 1996. Following approval, PP&L plans to submit a proposed amendment to the Susquehanna SES Unit 2 Technical Specifications in order to support a second quarter 1996 (mid Cycle 8) implementation of ANF-B based MCPR safety and operating limits for Unit 2. Coincident with the

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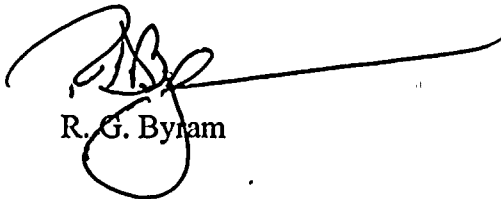
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implementation of these limits, PP&L will begin using the POWERPLEX-II core monitoring system which utilizes the ANF-B critical power correlation for core monitoring.

PP&L plans to submit a similar proposed amendment to the Susquehanna SES Unit 1 Technical Specifications in support of startup of Susquehanna SES Unit 1 Cycle 10 (October 1996).

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

Very truly yours,



R. G. Byram

Attachment

copy: NRC Region I  
Ms. M. Banerjee, NRC Sr. Resident Inspector - SSES  
Mr. C. Poslusny, Jr., Sr. Project Manager - OWFN

