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SUBJECT: Responds to request for clarification of certain items in 920615 ltr re power uprate.

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Robert G. Byram
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AUG 05 1993
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
RESPONSE TO REQUEST FOR INFORMATION
BY NRR/SRXB ON POWER UPRATE LTR
PLA-4010 FILES A17-2/R41-2/P88-1**

Docket Nos. 50-387
and 50-388

- Reference:
1. PLA-3788, H.W. Keiser to C.L. Miller, "Submittal of Licensing Topical Report on Power Uprate with Increased Core Flow", dated June 15, 1992.
 2. PLA-3948, R.G. Byram to C.L. Miller, "Revisions to PP&L Power Uprate Submittal," dated April 2, 1993.

Dear Mr. Miller:

The purpose of this letter is to respond to a request for clarification of certain items in the Reference 1 submittal by Mr. M. Razzaque of NRR/SRXB.

Question 1: Section 9.1 of the LTR states that the flow biased simulated thermal power trip will be credited in the RFCF analysis for power uprate. Will you be including a change to the Technical Specifications to add this time constant?

Response 1: PP&L has decided not to take credit for the flow biased simulated thermal power trip in the RFCF analysis for power uprate. This will be clarified in our actual license amendment request.

Question 2: Will PP&L be changing the Technical Specifications to include an LHGR reduction (multiplier) for Single Loop Operation?

Response 2: Yes. Our proposed Technical Specification markup was transmitted to the NRC in Reference 2.

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Question 3: Are the conclusions regarding ADS performance in Section 4.2.4 based on analysis?

Response 3: Yes. The assessment in 4.2.4 is based on the analysis of system response under various LOCA conditions presented in General Electric Report NEDC-32071P, "SAFER/GESTR-LOCA Loss of Coolant Analysis," which was provided with Reference 1.

Question 4: The ECCS performance evaluation indicates compliance with the 10CFR50.46 peak cladding temperature (PCT) requirements. Confirm compliance with the other requirements of 10CFR50.46.

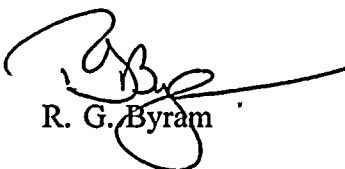
Response 4: Section 4.3 of the PP&L Licensing Topical Report states, "The ECCS performance under all LOCA conditions and their analysis models satisfy the requirements of 10CFR50.46 and 10CFR50 Appendix K." Compliance with each of the elements of 10CFR50.46 is documented in Table 4-4 of the report.

Question 5: Why wasn't the Upper Bound PCT calculated based on the Extended Load Line Limit Analysis (ELLLA)?

Response 5: The Upper Bound PCT documented in NEDC-32071P is not based on ELLLA. If it were, the event would begin at a slightly lower core flow, but would otherwise be essentially the same. As shown in NEDC-32071P Table 5-5, the nominal PCT is only 21°F higher when ELLLA is taken into account. The statistical uncertainties between the two cases do not change. Therefore, based on the results reported in NEDC-32071P, the ELLLA case will not impact the 1600°F limit on the Upper Bound PCT, nor the 2200°F limit on the Licensing Basis PCT, and the Licensing Basis PCT will continue to be greater than the Upper Bound PCT.

Any questions on these responses should be directed to Mr. R. Sgarro at (215) 774-7914.

Very truly yours,


R. G. Byram

cc: NRC Document Control Desk (original)
NRC Region I
Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES
Mr. R. J. Clark, NRC Sr. Project Manager - Rockville



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