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 AUTH. NAME      AUTHOR AFFILIATION  
 BYRAM, R.G.      Pennsylvania Power & Light Co.  
 RECIPIENT NAME      RECIPIENT AFFILIATION  
 MILLER, C.L.      Project Directorate I-2

SUBJECT: Informs NRC of results of insps & subsequent evaluation of Unit 1 feedwater tee connection X-175 during Unit 1-7th refueling & insp outage currently in progress.

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**Pennsylvania Power & Light Company**

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Robert G. Byram  
Senior Vice President-Nuclear  
215/774-7502

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  
FEEDWATER SYSTEM EROSION/CORROSION  
INSPECTION RESULTS FOR U1-7RIO AND  
WITHDRAWAL OF RELIEF REQUEST NO. 1RR-24  
PLA-4035 FILE R41-2**

Docket No. 50-387

Dear Mr. Miller:

- References:
- 1) PLA-3941 from Mr. R.G. Byram to Mr. C.L. Miller, "Feedwater System Erosion/Corrosion Repair," dated April 19, 1993.
  - 2) NRC letter from Mr. R.J. Clark to Mr. R.G. Byram, "Feedwater System Erosion/Corrosion Repair, Susquehanna Steam Electric Station," dated July 19, 1993.
  - 3) PLA-4004 from Mr. R.G. Byram to Mr. C.L. Miller, "Clarification to Request For One Time Relief From Hydrotest-Relief Request No. 1RR-24," dated July 26, 1993.

The purpose of this letter is to advise NRC of the results of our inspections and subsequent evaluation of the Unit 1 feedwater tee connection X-175 during the Unit 1-7th Refueling and Inspection Outage (U1-7RIO) currently in progress. The apparent excessive erosion/corrosion (E/C) was detected during the U1-6RIO.

Detailed ultrasonic inspections performed at the start of the U1-7RIO by our Inservice Inspection (ISI) group and, independently, by our own quality control personnel have provided sufficient data for us to conclude that only nominal E/C has occurred at location X-175 during the past Unit 1 Cycle 7. The data also indicates that the area previously categorized as a "localized area of apparent excessive E/C" has, in reality, experienced relatively uniform E/C that is consistent with the corrosion data (including rate of erosion/corrosion) previously obtained at other locations in the same Class 1 Feedwater System. The data appears to imply that the "localized wall-thinning" identified during the U1-6RIO E/C inspections is attributable primarily to base metal wall thickness reduction due to rework performed during construction on the inside surface of the pipe to compensate for weld fit-up misalignment.

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Based upon the results of our recent evaluation and NRC's previous concurrence (see NRC referenced letter dated July 19, 1993) with our proposed course of action number II in the referenced PLA-3941, we have decided not to proceed with replacement of the piping at the feedwater tee connection X-175. In addition, the inspection data indicates that we will not need to apply Code Case N-480 for determining minimum pipe wall at this time, however, there is a potential need to apply it over Cycle 9 and beyond.

In addition, we request that Relief Request No. 1RR-24 in the referenced PLA-4004 be withdrawn from consideration. This Relief Request is no longer required since the section of feedwater piping at connection X-175 in the scope of the Relief Request will not be replaced at this time.

During the upcoming refueling outage (U1-8RIO) we will re-examine this piping to confirm the rate and extent of E/C. Based upon the results of that examination we will establish the subsequent examination frequency.

If you have any questions, contact Mr. J.B. Wesner at (215) 774-7911.

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