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RUSSELL, W.T.      Region 1, Ofc of the Director

SUBJECT: Provides followup info relating to const deficiency re corrosion allowance for emergency svc water piping.      R

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Harold W. Keiser  
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MAR 10 1988

Mr. William T. Russell  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
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SUSQUEHANNA STEAM ELECTRIC STATION  
ESW PIPE CORROSION ALLOWANCE  
PLA-2989 FILE R41-2

Docket Nos. 50-387  
and 50-388

Dear Mr. Russell:

The purpose of this letter is to provide followup information relating to a construction deficiency concerning corrosion allowance for ESW piping. PP&L reported this condition on November 2, 1983 and provided a final report pursuant to 10CFR50.55(e) on December 5, 1983 (PLA-1973). This issue was incorporated into the Operating License for Susquehanna SSES Unit 2 as item 4B of Attachment 1 to NPF-22. The license requires that PP&L complete corrective action by 1988.

Background

A concern was identified involving corrosion allowance in the supply and return piping to the RHR pump motor oil coolers. The design specification and FSAR provided for a corrosion allowance of 0.25 inches for the ESW system. However, this portion of piping is class HBC rather than class HRC and has only 0.080 inches corrosion allowance. A conservative prediction showed that this corrosion allowance would be insufficient to ensure piping integrity over the 40-year life of the facility.

Subsequent Action

During the second refueling and inspection outage on Unit 1 in early 1986, a representative sample of the HBC piping was removed and analyzed. The results of this analysis show that based on the actual corrosion rate of the installed piping, there appears to be sufficient corrosion allowance to last for the design life of 40 years.

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Corrective Action

Since the actual corrosion rate is not expected to affect piping integrity during the design life of the plant, replacement of the piping in 1988 is not warranted and all required action is complete. However, PP&L plans to analyze another piping sample during the Unit 1 seventh refueling and inspection outage which is currently scheduled for 1993. At that time, actual corrosion rates will again be determined. Appropriate followup actions, if necessary, will be taken based on the results of the second sample.

If you have any questions, please contact Mr. R. M. Harris at (215) 770-7918.

Very truly yours,



H. W. Keiser  
Vice President - Nuclear Operations

cc: NRC Document Control Desk (original)  
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