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 AUTH. NAME AUTHOR AFFILIATION
 KEISER, H.W. Pennsylvania Power & Light Co. *See Rpt*
 RECIPIENT NAME RECIPIENT AFFILIATION
 BUTLER, W.R. Project Directorate I-2

SUBJECT: Forwards, "Analysis of Pitting Corrosion Failures in ESW Sys RHR Lube Oil Coolers & RCIC Pump Room Unit Coolers...."

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101-1179 • 215/770-5151

Harold W. Keiser
Senior Vice President-Nuclear
215/770-4194

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Director of Nuclear Reactor Regulation
Attention: Dr. W.R. Butler, Project Director
Project Directorate I-2
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
FINAL REPORT ON RHR MOTOR OIL COOLER FAILURE Docket Nos. 50-387
PLA-3457 **FILES R41-2/A22-7D** and 50-388

Dear Dr. Butler:

The purpose of this letter is to provide PP&L's final root cause evaluation of the RHR pump motor oil cooler failure which took place on May 28, 1990.

The report concludes that failure of the 2C RHR Pump Motor Oil Cooler was not the result of Microbiologically Influenced Corrosion (MIC) nor was the pitting recent in origin. The cause of the pitting was Under Deposit Corrosion caused by manganese, iron, silt and sediment with some influence by microbiologic activity. Deterioration took place over a period of years. The rate of corrosion was influenced by such factors as heat, stagnation and velocity but the actual, unanticipated failure was the direct result of the lack of cleaning and inspection which would have provided the data needed to predict the life expectancy of the cooler.

PP&L will ensure that the RHR pump motor oil coolers are replaced prior to the end of useful life. In addition, PP&L will evaluate replacement of the copper coils with materials which are less affected by the corrosion products present in the cooling water.

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This revision of the inspection requirements will take place by December 31, 1990 to allow preventative measures to be taken before the 10 year life of the replacement coolers is reached.

In conclusion, we are confident that the actions described herein are conservative and adequate and therefore assure the continued safe operation of the plant.

Very truly yours,



H. W. Keiser

cc: ~~NRC Document Control Desk~~ (original, with Attachment)
NRC Region I
Mr. M.C. Thadani, NRC Project Manager
Mr. G. S. Barber, NRC Sr. Resident Inspector