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SUBJECT: Discusses continued investigation re microbiologically induced corrosion growth in svc water piping. Project has been initiated to develop chemical treatment sys for mitigating microbiologically induced corrosion attack.

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H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261  
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SERVICE WATER PIPING DEGRADATION

Dear Sir:

This letter is in regard to our continued investigation concerning Microbiologically Induced Corrosion (MIC) growth in Service Water Piping. In our January 16, 1987 letter, CP&L indicated that we were evaluating our corrective action options and would inform you of our selection prior to the March, 1987 Refueling Outage.

The overall Inservice Monitoring Program to ensure the integrity of the Service Water Piping will continue. A project has been initiated to develop a chemical treatment system for mitigating continued MIC attack. This project is presently scheduled for implementation during the 1987 Refueling Outage. The scope of the ongoing monitoring program will be expanded to monitor the effectiveness of this treatment using the December, 1986 radiography as baseline data. The future inspection interval will be based on the results of the radiography to be performed during the upcoming Refueling Outage.

Additionally, based on a conservative growth rate, we estimate that there is some Auxiliary Building piping that may be affected. Therefore, we intend to monitor the growth rate on this piping using radiography or sleeve the affected areas as necessary.

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In addition, during March, 1987, Radiography Inspection (RT) was performed to determine which Auxiliary Building Service Water welds required repair. One of the radiographs showed a cumulative circumferential indication length of 5.5 inches. This is a butt weld on the six-inch supply pipe to CV Cooler HVH-1.

In our January, 1985 letter, CP&L discussed the basis for establishing a conservative 5 inch maximum length criteria based on piping structural integrity for repairs performed in 1984. That is, structural integrity would be retained if the cumulative lengths of indications, when summed around the circumference of the weld, are less than 50% of the mean circumference of the pipe. For the six-inch line in question, 50% of the mean circumference is 10.19 inches. Our 5 inch maximum length criteria provided a factor of conservatism of two (2). Although the 5.5 inch length of indications exceeds that criteria, it still allows for structural integrity of the pipe. This weld was therefore scheduled for repair by sleeving during the Refueling Outage scheduled to begin March 28, 1987.

If you have any additional questions concerning this submittal, please contact Mr. D. A. Sayre, telephone (803) 383-1242.

Very truly yours,



R. E. Morgan  
General Manager  
H. B. Robinson S. E. Plant

RDC:leh

cc: J. N. Grace  
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