

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8701280013 DOC. DATE: 87/01/16 NOTARIZED: NO DOCKET #
 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power & Light C 05000261
 AUTH. NAME AUTHOR AFFILIATION
 MORGAN, R. E. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Record Services Branch (Document Control Desk)

SUBJECT: Discusses current status on latest insp of svc water piping corrosion. Table of svc water piping inservice monitoring weld list encl.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 3
 TITLE: OR Submittal: General Distribution

NOTES:

RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
PWR-A EB	1 1	PWR-A EICSB	2 2
PWR-A FOB	1 1	PWR-A PD2 LA	1 0
PWR-A PD2 PD 01	5 5	REQUA, G	1 1
PWR-A PSB	1 1	PWR-A RSB	1 1
INTERNAL: ADM/LFMB	1 0	ELD/HDS1	1 0
NRR/DHFT/TSCB	1 1	NRR/ORAS	1 0
<u>REG FILE</u> 04	1 1		
EXTERNAL: EG&G BRUSKE, S	1 1	LPDR 03	1 1
NRC PDR 02	1 1	NSIC 05	1 1

Add: AEDD/PIB
 NRR/DSRO/EIB
 NRR/TAMB } LTR
 &
 ENCL

TOTAL NUMBER OF COPIES REQUIRED: LTTR 25 ENCL 18



Carolina Power & Light Company

ROBINSON NUCLEAR PROJECT DEPARTMENT
POST OFFICE BOX 790
HARTSVILLE, SOUTH CAROLINA 29550
JAN 16 1987

Robinson File No: 13510C

Serial: RNP/87-224

United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
SERVICE WATER PIPING DEGRADATION

Dear Sir:

This letter is to provide you with a current status on the latest inspection of service water piping corrosion. In our June 16, 1986 letter to Dr. Grace, we indicated that our plans were to complete the inspection during the fall of that year. Radiography was performed between December 8 and 12, 1986, to substantiate the Microorganism Induced Corrosion (MIC) growth identified by radiography between October 27 and 31, 1986.

In our January 4, 1985 letter, we stated that an in-service monitoring program had been established to ensure the integrity of the service water piping was maintained following repairs and to determine future inspection intervals. Detection of further degradation would result in further corrective actions as appropriate. The scope of in-service monitoring was expanded from 17 to 23 samples to include additional welds for inspection in the fall of 1986 (Table 1).

The December, 1986 radiography of the service water piping detected new indications and apparent further growth of the MIC. This radiography indicated that six (6) of the fifteen (15) sleeved welds sampled in containment and in the auxiliary building exhibit apparent new growth in the sleeve-to-pipe fillet weld heat affected zone. In addition, evaluation of the sleeve material (304 stainless steel versus 304L stainless steel) and the welding environment (piping flow versus no flow during welding) could determine no correlation. The MIC attacks appear to be random in nature. Radiography of nonsleeved service water piping indicated apparent new growth as well as apparent further growth in the original butt welds.

8701280013 870116
PDR ADOCK 05000261
Q PDR

A001 Add: AEO/P1B } Ltr
NRR/OSRO/EIB } 4
NRR/TAMB } Ench
1/0

The "leak" monitoring program being implemented for Unit 2 involves routine inspection by Plant Operations personnel in the course of their rounds as well as periodic radiography. During preparation to perform radiography, indication of a single leak in the supply piping to a containment HVH unit was discovered. However, it was determined the leak was due to a flaw in the sleeve's fillet weld and not due to MIC. The flaw was repaired.

In conclusion, the December, 1986 radiography inspection of the service water piping has indicated continued progression of the MIC, although no visual leakage has been identified. We are currently evaluating a variety of corrective action options and will inform you of our selection by March 27, 1987, prior to our 1987 Refueling Outage.

If you have any questions concerning this submittal, please contact our Acting Director of Regulatory Compliance, Mr. Donald A. Sayre, telephone (803) 383-1242.

Very truly yours,

A.R. Wallace for R.E. Morgan

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

DAS:jch

Enclosure

cc: J. N. Grace
W. P. Kleinsorge
H. E. P. Krug
A. R. Wallace

TABLE 1

SERVICE WATER PIPING IN-SERVICE MONITORING WELD LIST

In Containment Welds

<u>Qty.</u>	<u>Pipe Size</u>	<u>Material & Welding Environment</u>
4	6"	Sleeved 304 SS welded dry
2	6"	Sleeved 304 SS welded wet
3	6"	Sleeved 304L SS welded wet
2	3"	Sleeved 304L SS welded wet
2	3"	Nonsleeved

NOTE: 6" and 3" piping are worst case with regard to corrosion;
therefore, monitor of smaller lines is unnecessary.

Auxiliary Building Welds

<u>Qty.</u>	<u>Pipe Size</u>	<u>Material & Welding Environment</u>
2	6"	Sleeved 304 SS welded wet
2	6"	Sleeved 304L SS welded wet
6	6"	Nonsleeved