ACCELERATED DIST	RIBUTION	DEMONSTRATI	ON SYSTEM	
REGULATORY	INFORMATION	DISTRIBUTION SYSTE	M (RIDS)	
VAUGHN,G.E. Carolina RECIP.NAME RECIPIEN	I Plant, Unit FFILIATION Power & Ligt T AFFILIATIO	z 2, Carolina Power nt Co.	& Light C 05000261	R
SUBJECT: Notifies of exten ten-year interval	sion of In-S from 910307	Service Insp & Test 7 to 920219.	ing second	I
DISTRIBUTION CODE: A047D TITLE: OR Submittal: Inser	COPIES RECE	IVED:LTR l ENCL o	SIZE:	D
NOTES:	vice inspect	lion/lesting/keiler	ITOM ASME Code	S
RECIPIENT	COPIES	RECIPIENT	COPIES	1.
ID CODE/NAME PD2-1 LA	LTTR ENCL		LTTR ENCL	Α
LO,R	2 2			D
INTERNAL: AEOD/DSP/TPAB NRR/DET/EMEB 7E		NRR/DET/ECMB 9H NUDOCS-ABSTRACT	1 1 1 1 1 0	D
REG FILE 01		OGC/HDS2 RES/DSIR/EIB		S
EXTERNAL: EG&G BROWN, B NRC PDR	1 1 1 1	EG&G RANSOME,C NSIC	1 1	

R

Ι

D

S

А

D

D

S

nn

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 16 ENCL



Carolina Power & Light Company

P.O. Box 1551 • Raleigh, N.C. 27602

APR 0 3 1991

SERIAL: NLS-91-064

G. E. VAUGHN Vice President Nuclear Services Department

United States Nuclear Regulatory Commission ATTENTION: Document Control Desk Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 DOCKET NO. 50-261/LICENSE NO. DPR-23 EXTENSION OF IN-SERVICE INSPECTION AND TESTING SECOND TEN-YEAR INTERVAL

Gentlemen:

Subarticle IWA-2400(c) (1977 edition, summer 1978 addenda) allows the ten-year ISI/IST interval to be extended, for units which are out of service continuously for six months or more, for a period equivalent to the outage. During 1984-1985, HBR2 experienced an outage of 349 days for steam generator replacement; accordingly, the second ten-year interval will be extended by 349 days, from March 7, 1991 until February 19, 1992. Submittals consistent with current guidance regarding in-service inspection and testing will be made appropriately in advance of the commencement of the third ten-year interval.

Refueling outage No. 14 is currently planned to commence in spring 1992, early in the third interval. The second interval hydrostatic testing was begun during refueling outage No. 12 and is scheduled for completion during refueling outage No. 14 under the provisions of IWB-2412(b), which allow the inspection period to be extended by as much as one year to enable the inspection to coincide with a plant outage.

Questions regarding this matter may be referred to Mr. R. W. Prunty at (919) 546-7318.

Yours very truly,

G. E. Vaughn

JSK/jbw (1017RNP)

cc: Mr. S. D. Ebneter Mr. L. Garner (NRC-HBR) Mr. R. Lo

104080182 910403 ADOCK 05000261 PDR

Docket No. 50-261

Mr. Lynn W. Eury Executive Vice President Power Supply Carolina Power & Light Company Post Office Box 1551 Raleigh, North Carolina 27602

Dear Mr. Eury:

SUBJECT: RESPONSE TO GENERIC LETTER 90-06, "RESOLUTION OF GENERIC ISSUE 70, 'POWER-OPERATED RELIEF VALVE AND BLOCK VALVE RELIABILITY,' AND GENERIC ISSUE 94, 'ADDITIONAL LOW-TEMPERATURE OVERPRESSURE PROTECTION FOR LIGHT-WATER REACTORS,' PURSUANT TO 10 CFR 50.54(f) (TAC NO. 77373 AND 77446)

On June 25, 1990, the NRC issued Generic Letter (GL) 90-06 which contained the staff resolution of Generic Issues 70 and 94. The GL requested that licensees adopt the staff positions and appropriate technical specifications (TS) for their facilities.

By letter dated December 21, 1990, you responded to the GL and indicated that (1) Staff Positions 1 and 2 of Section 3.1 of Enclosure A to the GL will be implemented, and (2) TS as described in Enclosures A and B to the GL will be submitted in accordance with the guidance provided in the GL. Through a telephone conversation with Jan Kozyra and John Eads of your staff, the NRC staff has been informed that the phrase "and associated control systems," which had inadvertently been left out, is part of your response to NRC Staff Position 1, Section 3.1, Part C.

The staff will review the TS changes corresponding to item (2) above when they are received. In addition, you are requested to inform the staff in writing when the staff positions identified in item 1 above have been implemented.

Sincerely,

Orignal signed by: Ngoc Le for: Ronnie H. Lo, Senior Project Manager Project Directorate II-1 Division of Reactor Projects II/I Office of Nuclear Reactor Regulation

cc: See next page

DISTRIBUTION See attached page

OFC	:LA: ADA LIDPPE		:PM:PD21:DRPE	:D:PD21:DRPE	:
NAME	:PAnderson	:DSpaulding	:	: Adensam	:
DATE	:3 /29/91	:ų/1/91	₩/√/91	: //2/91	:
	OFFICIAL RECORD Document Name:		e NRC FIL	e Center	COPY

mAHU

Mr. L. W. Eury Carolina Power & Light Company

cc: Mr. R. E. Jones, General Counsel Carolina Power & Light Company P. O. Box 1551 Raleigh, North Carolina 27602

Mr. H. A. Cole Special Deputy Attorney General State of North Carolina P. O. Box 629 Raleigh, North Carolina 27602

U.S. Nuclear Regulatory Commission Resident Inspector's Office H. B. Robinson Steam Electric Plant Route 5, Box 413 Hartsville, South Carolina 29550

Regional Administrator, Region II U.S. Nuclear Regulatory Commission 101 Marietta Street Suite 2900 Atlanta, Georgia 30323

Mr. R. Morgan General Manager H. B. Robinson Steam Electric Plant P. O. Box 790 Hartsville, South Carolina 29550 H. B. Robinson Steam Electric Plant, Unit No. 2

> Mr. Dayne H. Brown, Director Department of Environmental, Health and Natural Resources Division of Radiation Protection P. O. Box 27687 Raleigh, North Carolina 27611-7687

> Mr. Robert P. Gruber Executive Director Public Staff - NCUC P. O. Box 29520 Raleigh, North Carolina 27626-0520

> Mr. C. R. Dietz
> Manager, Robinson Nuclear Project Department
> H. B. Robinson Steam Electric Plant
> P. O. Box 790
> Hartsville, South Carolina 29550

> Mr. Heyward G. Shealy, Chief Bureau of Radiological Health South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

DISTRIBUTION Docket File NRC & Local File S. Varga G. Lainas E. Adensam R. Lo D. Spaulding P. Anderson D. Pickett C. Liang OGC E. Jordan ACRS (10)	14 E4 14 H3 13 H15 8 E23 MNBB 3701
Robinson File	

*

.

њ. с

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555

Docket No. 50-261

AR REGUL

April 3, 1991

Mr. Lynn W. Eury Executive Vice President Power Supply Carolina Power & Light Company P.O. Box 1551 Raleigh, North Carolina 27602

Dear Mr. Eury:

SUBJECT: H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 - EVALUATION AND MITIGATION OF COMPONENT DEGRADATION (TAC NO. 79026)

During the recent refueling outage at the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBR-2), the Carolina Power & Light Company (CP&L or the licensee) found indications of material degradation in the following components during inspections or hydrostatic tests: (1) the safety injection (SI) accumulator, (2) control rod drive (CRD) guide tube support pins, (3) service water system pipes, and (4) steam generator (SG) upper girth welds. Based on the CP&L submittals, identified below, and on information received during telephone conference calls, the staff finds the licensee's actions for inspecting, evaluating, and mitigating this component degradation to be acceptable.

Under the provision of 10 CFR 20.21, CP&L has reported to NRC that leakage from a nozzle coupling on SI accumulator C was observed during hydrostatic tests. All 27 nozzle couplings (9 per accumulator) were examined ultrasonically and with liquid penetrant. Indications of leakage were found at four nozzle couplings. CP&L stated that these flawed nozzle couplings have been replaced in accordance with American Society of Mechanical Engineers (ASME) Code requirements before the plant was returned to service. The staff finds the inspection and replacement of defective nozzle couplings to be acceptable.

NRC FILE CENTER COPY

mATW

Lynn W. Eury

During ultrasonic examination, rejectable indications were found on some of the CRD guide tube support pins. CP&L stated that all such pins (a total of 106) were replaced with new pins during the refueling outage. The new pins have a new and improved design and have been heat-treated to a minimum temperature of 2000 degrees Fahrenheit for better resistance to stress corrosion cracking. The staff finds that the inspection and replacement of all CRD guide tube support pins are acceptable.

-2-

During a visual and ultrasonic examination of the buried service water piping, a loss of cross section was discovered in pipe joint areas that were not internally coated with cement lining. The inspection results and the basis for the mitigation were provided in a report dated January 1991. By letter dated January 2, 1991, in accordance with the requirements of ASME Code Case N-480, CP&L submitted its minimum bounding wall calculations for the affected areas. The licensee determined that all the affected pipe joints, with the exception of pipe joints S-10 and S-42, are acceptable for continued service in their present condition. CP&L indicated that several pipe joints, including pipe joints S-10 and S-42, will be repaired or replaced in accordance with the ASME Code requirements and that all the pipe joints not internally coated would be internally coated with cement lining during the outage. The staff has reviewed CP&L's report and minimum wall evaluation and found them acceptable. A safety evaluation to support the staff's findings will be issued separately.

During an In-Service Inspection, flaw indications were found by ultrasonic examination of the weld between the upper transition cone and the shell in SGs A and C. A magnetic particle examination was also performed on the inside surface of the transition weld to confirm the flaw indications. By letter dated January 8, 1991, CP&L submitted a flaw evaluation report done by Structural Integrity Associates, Inc. A bounding flaw size of 0.47 inch in depth and 2 inches in length was used in the stress and fracture analyses; and a conservative thermal transient cycle simulating the injection of the feedwater at 70 degrees Fahrenheit with the shell at an operating temperature of 518 degrees Fahrenheit was assumed in the fatigue crack growth calculations. The results of these analyses indicated that the observed flaw indications will not grow enough to violate Code margins on structural integrity of the SG shells during the next 18-month operating cycle. The staff has reviewed the evaluation report and found the analysis acceptable. However, because of the uncertainties inherent in the analysis, CP&L has agreed to perform additional ultrasonic tests on the girth weld flaws if a mid-cycle shutdown of sufficient length occurs during the next operating cycle. Furthermore, within 45 days of resumption of reactor operation, CP&L will submit a revised flaw evaluation report to provide more information about their analysis. After the report has been submitted, a safety evaluation will be issued detailing the staff's findings.

Lynn W. Eury

Q.

÷.

In summary, the staff finds the licensee's inspections, evaluations, and mitigation of the component degradation to be acceptable. The staff concludes that the structural integrity of the reactor coolant pressure boundary will be maintained and that HBR-2 is safe for continued operation for at least one additional fuel cycle.

Orignal signed by: Ngoc Le for:

Ronnie H. Lo, Senior Project Manager Project Directorate II-1 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

cc: See next page

DISTRIBUTION Docket File	
NRC & Local PDR	
Robinson File	
J. Partlow	12 G18
S. Varga	14 E4
G. Lainas	14 H3
A. Mendiola	
R. Lo	
B. Mozafari	
P. Anderson	
OGC	
E. Jordan	MNBB 3701
CY Cheng	7 D4
ACRS (10)	

	$-\infty$			
OFC	LA: PURT SURPE	:PM:PD21:DRPE	AD:PD21:DRPE	•
	• •	RLo (Amendiola	,
DATE		` /	:) <i>4</i> 1 Z/91	 ;
	OFFICIAL RECORD Document Name:			

Mr. L. W. Eury Carolina Power & Light Company

cc: Mr. H. Ray Starling Manager - Legal Department Carolina Power & Ligth Company P. O. Box 1551 Raleigh, North Carolina 27602

Mr. H. A. Cole Special Deputy Attorney General State of North Carolina P. O. Box 629 Raleigh, North Carolina 27602

U.S. Nuclear Regulatory Commission Resident Inspector's Office H. B. Robinson Steam Electric Plant Route 5, Box 413 Hartsville, South Carolina 29550

Regional Administrator, Region II U.S. Nuclear Regulatory Commission 101 Marietta Street Suite 2900 Atlanta, Georgia 30323

Mr. R. Morgan General Manager H. B. Robinson Steam Electric Plant P. O. Box 790 Hartsville, South Carolina 29550 H. B. Robinson Steam Electric Plant, Unit No. 2

Mr. Dayne H. Brown, Director Department of Environmental, Health and Natural Resources Division of Radiation Protection P. O. Box 27687 Raleigh, North Carolina 27611-7687

Mr. Robert P. Gruber Executive Director Public Staff - NCUC P. O. Box 29520 Raleigh, North Carolina 27626-0520

Mr. C. R. Dietz
Manager, Robinson Nuclear Project Department
H. B. Robinson Steam Electric Plant
P. O. Box 790
Hartsville, South Carolina 29550
Mr. Heyward G. Shealy, Chief

Mr. Heyward G. Shealy, Chief Bureau of Radiological Health South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201 Docket No. 50-261 50-325 and 50-324 50-400

Mr. Lynn W. Eury Executive Vice President Power Supply Carolina Power & Light Company Post Office Box 1551 Raleigh, North Carolina 27602

Dear Mr. Eury:

SUBJECT: TEMPORARY REASSIGNMENT OF PROJECT DIRECTOR, PROJECT DIRECTORATE II-1

This is the inform you that effective April 1, 1991, I will be temporarily reassigned for a period of three months and Mr. Anthony Mendiola will be Acting Director for Project Directorate II-1.

Mr. Mendiola can be reached on (301) 492-1466.

Sincerely,

Elinor G. Adensam, Director Project Directorate II-1 Division of Reactor Projects I/II

cc: See next page DISTRIBUTION

G. Lainas 1 L. Reyes R E. Adensam 1 P. Anderson 1 OGC 1 E. Jordan M ACRS (10) P Brunswick File Harris File	L4-E-4 L4-H-3 RII L4-B-20 L4-B-20 L5-B-18 MNBB-3302 P-315
H. B. Robinson File	

NRG FILE GENTER COPY

	\$1:8RPE :D:P021	ØRPE	:	:	
NAME PAnde	rson:dt :EAdensi	_	:	:	
DATE :3/24	/91 3/1//	91 :	• • • • • • • • • • • • • • • • • • •		.
	IAL RECORD COPY ent Name: MEMO TO				mather

Mr. L. W. Eury Carolina Power & Light Company

cc: Mr. R. E. Jones, General Counsel Carolina Power & Light Company P. O. Box 1551 Raleigh, North Carolina 27602

Mr. Kelly Holden, Chairman Board of Commissioners P. O. Box 249 Bolivia, North Carolina 28422

Regional Administrator, Region II U. S. Nuclear Regulatory Commission 101 Marietta Street, Suite 2900 Atlanta, Georgia 30323

Resident Inspector/Harris NPS c/o U. S. Nuclear Regulatory Commission Route 1, Box 315B New Hill, North Carolina 27562

Mr. R. B. Richey, Vice President Harris Nuclear Project P.O. Box 165 New Hill, North Carolina 27562

Mr. J. W. Spencer Plant General Manager Brunswick Steam Electric Plant P.O. Box 10429 Southport, North Carolina 28461

Mr. Russell B. Starkey, Jr. Vice President Brunswick Nuclear Project P. O. Box 10429 Southport, North Carolina 28461

Resident Inspector U. S. Nuclear Regulatory Commission Star Route 1 P.O. Box 208 Southport, North Carolina 28461

Mr. C. S. Hinnant Plant General Manager Harris Nuclear Plant P.O. Box 165 New Hill, North Carolina 28562 Mr. Robert P. Gruber Executive Director Public Staff - NCUC P. O. Box 29520 Raleigh, North Carolina 27626-0520

Mr. R. Morgan General Manager H. B. Robinson Steam Electric Plant P.O. Box 790 Hartsville, South Carolina 29550

Mr. H. A. Cole Special Deputy Attorney General State of North Carolina P.O. Box 629 Raleigh, North Carolina 27602

Mr. D. R. Dietz
Manager, Robinson Nuclear Project Department
H. B. Robinson Steam Electric Plant
P.O. Box 790
Hartsville, South Carolina 29550

Mr. Heyward G. Shealy, Chief Bureau of Radiological Health South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201