80 Form 366 83)				LIC	ENSE		NT RE	PORT	(LER)		UCLEAR REGULAT				
CILITY NAME (1)								-	0	OCKET NUMBER	(2)	PAGE (3)			
Robinson 1	Nuclea	r Proje	ect De	epartmen	nt, Un	nit No	. 2		(0 5 0 0	10 2 6 1	1 OF 01			
TLE (4)															
Reactor T	rip Du	ie to Hi	gh Le	evel in	"A" S	Steam	Gener	ator							
EVENT DATE (5)	UMBER (ORT DATE	(7)	_		ACILITIES INVO	general second						
IONTH DAY Y	EAR YE	YEAR SEQUENTIAL REVE NUMBER NUM			MONTH	DAY	YEAR		FACILITY NAM	ES	DOCKET NUMBER(S)				
							-				0 5 0 0 0				
011 019	8 5 8	5-0	015	- 010		del	1.				0 151010				
		S REPORT IS S		1010	103	0111	NTE OF 1	CFR 5- 10	Check one or more o	t the following) (1		1-1-1-1			
MODE (9)	-	20.402(b)	CEMITTE	PURSUART	20.4061			X	50.73(a)(2)(iv)		73.71(b)				
POWER		20.405(a)(1)(0		50 36(c)			-	50.73(a)(2)(v)		73.71(c) OTHER (Specify in Abstract below and in Text, NRC Form				
LEVEL 01	1 4	20.405(+)(1)(iii)		50.38(e)	(2)			50.73(a)(2)(vii)						
	-	20.406(a)(1))	(44)		60.73(a)	(2)(i)			50.73(a)(2)(viii)(A	ð	JS6Al	TAKT NAC FORM			
		20.405(a)(1)(iv)	- C	50.73(a)	(2)(3)			50.73(s)(2)(viii)(8						
		20.408(+)(1))	vì		50.73(a)	(2)(16)			50.73(a)(2)(x)		1				
					LICENSEE	CONTACT	FOR THIS	LER (12)			TELEPHONE NUN	000			
AME										AREA CODE	TELEPHONE NON	1951			
Carson L.	Wrigh	nt								8,0,3	3,8,3,-	14 15 1214			
		C	OMPLETE	ONE LINE FO	R EACH CO	MONENT	FAILURE	DESCRIBE	D IN THIS REPOR						
		MAN	FAC	REPURTABLE	1		Τ			MANUFAC	REPORTABLE				
CAUSE SYSTEM	COMPONEN			TO NPROS			CAUSE	SYSTEM	COMPONENT	TURER	TO NPROS				
	1.1		1.1		-		-	1		111	_				
			2.11		1.1		1								
	11-				-		1				MONT	DAY YEAR			
			SUPPLEME	NTAL REPOR	T EXPECTE	10 114				EXPECT SUBMISS	ED 03				
YES Ilf yes com	Diete EXPEC	TED SUBMISS	ION DATE	9	X	NO				DATE		1 1 1 1			
STRACT (Limit to)	400 104041	+ +0010xime	tery lifteen	ungle-space ty	anwritten lin	es/ (16)									
time fol trip occ generato circuitry than des which tr On Febru	ry 9, lowing urred r. It y at l ired. ipped ary 10	g an 11 at 14% appear low powe This (the tur), 1985,	1/2 : power rs that ar ler baused rbine , the	nonth o r due t at erra vels ca i "A" s and th unit w	utage o a tu tic op used ' team g us the as ret	and i urbine perati "A" fe genera e read	norea trip on of edwal itor i itor.	ising from "A" cer re level	turbine load. At a high 1 steam gen gulating to exceed During t function	0402 how evel in erator lo valve to the hig he return	urs, a rea "A" steam evel contr open fur h level so n to power	actor rol ther etpoint r,			

12 M

8503120189 850301 PDR ADOCK 05000261 S

NRC Form 366A (9-83)	LICENSEE EVENT REPO	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION					
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUM	BER (6)	PAGE (3)		
			YEAR SEQUE	NTIAL REVISION NUMBER			

													Ľ	YEAR	T	SEC	UENT	AL		AEVISION	-	T		
Robinson	Nuclear	Project	Dept.,	Unit	2	0	5	0	0	10	21	6 1	1	81	5 -	0	0	5	-	010	0	2 05	0	12
TEXT (If more space	TEXT (If more space is required, use additional NRC Form 366A(s) (17)																							

Text

On January 9, 1985, the turbine was being loaded following the Steam Generator Replacement Outage. At 0402 hours, a reactor trip occurred at 14% power due to a turbine trip from a high level in "A" steam generator. The high level signal also trips the feed pumps. The reactor trips if the turbine trips above 10% power.

During the previous Plant startups in early January, the three steam generators experienced level control problems. The erratic operation of "A" steam generator level control circuitry caused "A" feedwater regulating valve to open further than desired. This overfeeding of "A" steam generator gave a high level in the steam generator which tripped the turbine and thus the reactor. The level control systems were inspected mechanically and electronically for potential problems. Maintenance corrected the problems in the level controllers for "B" and "C" steam generators. A failed capacitor contributed to electronic circuit noise in "B" level controller. Debris in the instrument air side caused increased response time in "C" valve controller. Investigation of the "A" steam generator level control circuitry, manual and automatic, did not reveal any failures or abnormal signal conditions.

The root cause of the level trip on "A" steam generator is attributed to probable sticking of the manual controller in conjunction with the new higher flow trim installed during the Steam Generator Replacement Outage and the duration of that outage. The operators had no previous operating experience with this trim and may have overcompensated when the controller did not respond as expected.

During the investigation of the problems with the feedwater regulating valves, considerable exercising of the circuit components and the "A" steam generator feedwater regulating valve occurred. This exercising appears to have "worked in" "A" loop, and it was stable when the Plant was placed in operation on February 10, 1985. "B" loop was also stable. "C" loop was less stable than previous operation but acceptable for the operator to control feedflow. All three valves were stable in the automatic mode.

The three feedwater control valves were closely observed and were determined to be sufficiently stable in their manual mode to allow normal transition from zero power to automatic on-line operation without inducing a trip from feedwater oscillations. No further action is planned.



Carolina Power & Light Company

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

MAR 0 1 1985

Robinson File No: 13510C

Serial: RNPD/85-382

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

> ROBINSON NUCLEAR PROJECT DEPARTMENT, UNIT NO. 2 DOCKET NO. 50-261 LICENSE NO. DPR-23 LICENSEE EVENT REPORT 85-005 Rev. 1

Dear Sir:

In accordance with 10CFR50.73, Licensee Event Report System, the enclosed supplemental Licensee Event Report is submitted. The original report dated February 8, 1985, described a reactor trip on January 9, 1985. The cause of the trip was high level in "A" steam generator. This revision contains a complete description of the event in addition to current corrective actions and should replace all existing copies of the original report. (The supplemental information has been barred for your convenience.)

Very truly yours,

Allongan

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

CLW/tk:C-5

Enclosure

cc: INPO H. E. P. Krug J. N. Grace

IEZZ 'II