

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8010200581 DOC.DATE: 80/10/15 NOTARIZED: NO DOCKET #  
 FACIL:50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261  
 AUTH.NAME AUTHOR AFFILIATION  
 STARKEY,R.B. Carolina Power & Light Co.  
 RECIP.NAME RECIPIENT AFFILIATION  
 Region 2, Atlanta, Office of the Director

SUBJECT: LER 80-020/03L-0: on 800916, refueling periodic test PT-2.1  
 revealed that failure of A safety injection pump breaker to  
 close during power operation would result in operation in  
 degraded mode. Caused by switch contact.

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 TITLE: Incident Reports

NOTES:

ACTION:	RECIPIENT		COPIES		RECIPIENT	COPIES	
	ID CODE/NAME		LTTR	ENCL		ID CODE/NAME	LTTR
	VARGA, S.	04	3	3			
INTERNAL:	A/D COMP&STRU06		1	1	A/D ENV TECH 07	1	1
	A/D MATL & QU08		1	1	A/D OP REACT009	1	1
	A/D PLANT SYS10		1	1	A/D RAD PROT 11	1	1
	A/D SFTY ASSE12		1	1	A/D TECHNOLOG13	1	1
	ACC EVAL BR 14		1	1	AEOD	2	2
	ASLBP/J.HARD		1	1	AUX SYS BR 15	1	1
	CHEM ENG BR 16		1	1	CONT SYS BR 17	1	1
	CORE PERF BR 18		1	1	D/DIR, HUM FAC19	1	1
	DIR, ENGINEER120		1	1	DIR, HUM FAC S21	1	1
	DIR, SYS INTEG22		1	1	EFF TR SYS BR23	1	1
	EQUIP QUAL BR25		1	1	GEOSCIENCES 26	1	1
	I&C SYS BR 29		1	1	I&E 05	2	2
	JORDAN, E./IE		1	1	LIC GUID BR 30	1	1
	LIC QUAL BR 31		1	1	MATL ENG BR 32	1	1
	MECH ENG BR 33		1	1	MPA	3	3
	NRC PDR 02		1	1	OP EX EVAL BR34	3	3
	OR ASSESS BR 35		1	1	POWER SYS BR 36	1	1
	RAD ASSESS BR39		1	1	REACT SYS BR 40	1	1
	REG FILE 01		1	1	REL & RISK A 41	1	1
	SFTY PROG EVA42		1	1	STRUCT ENG BR44	1	1
	SYS INTERAC B45		1	1			
EXTERNAL:	ACRS	46	16	16	LPDR 03	1	1
	NSIC	05	1	1	TERA:DOUG MAY	1	1

OCT 22 1980

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	S	C	H	B	R	2	0	0	-	0	0	0	0	0	0	3	4	1	1	1	1	4	5
7	8	9	14						15	25						26	30				57	58		
LICENSEE CODE		LICENSE NUMBER						LICENSE TYPE				CAT				58								

CON'T

0	1	L	0	5	0	0	0	2	6	1	7	0	9	1	6	8	0	8	1	0	1	5	8	0	9
7	8	60	61	68						69	74				75	80									
REPORT SOURCE		DOCKET NUMBER						EVENT DATE				REPORT DATE													

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On September 16, 1980, further review of an event concerning the failure of "A" Safety Injection (SI) Pump Breaker to close on August 11, 1980, during the performance of a refueling periodic test (PT-2.1) revealed that the failure during power operation would have resulted in operation in a degraded mode permitted by Technical Specification 3.3.1.2.b. This constitutes a reportable occurrence per Technical Specification paragraph 6.9.2.b.2.

0	9	E	B	E	A	C	K	T	B	R	K	E	Z	17	8	0	0	2	0	0	3	L	0	0	B	Z	Z	Z	0	0	0	0	Y	Y	N	W	1	2	0				
7	8	9	10	11	12	13	13	13	13	13	13	19	20	21	22	23	24	26	27	28	29	30	31	32	33	34	35	36	37	40	41	42	43	44	47								
SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE						COMP. SUBCODE		VALVE SUBCODE		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.		ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The cause of the failure of the breaker to close was found to be a high resistance breaker alarm switch contact in the closing control circuit. The switch contact was cleaned and the breaker closing control circuit was tested successfully several times.

1	5	H	0	0	0	NA	B	Conducting Refueling Periodic Test	32
7	8	9	10	12	13	44	45	46	80
FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
ACTIVITY CONTENT		RELEASED OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE			
1	6	Z	Z	NA	NA	NA	NA	NA	36
7	8	9	10	11	13	44	45	80	
PERSONNEL EXPOSURES		PERSONNEL INJURIES		LOSS OF OR DAMAGE TO FACILITY		PUBLICITY		ISSUED DESCRIPTION	
1	7	0	0	0	0	0	0	0	45
7	8	9	11	12	13	41	42	43	44
NUMBER		TYPE		DESCRIPTION		NUMBER		DESCRIPTION	
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	
1	8	0	0	0	0	0	0	0	41
7	8	9	11	12	13	41	42	43	44
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	
1	9	Z	NA	NA	NA	NA	NA	NA	43
7	8	9	11	12	13	43	44	45	46
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	
2	0	N	NA	NA	NA	NA	NA	NA	44
7	8	9	11	12	13	44	45	46	47
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	
NUMBER		DESCRIPTION		NUMBER		DESCRIPTION		NUMBER	

8010200581

NAME OF PREPARER R. B. Starkey, Jr.

NRC USE ONLY  
PHONE: (803) 383-4524

SUPPLEMENTAL INFORMATION

FOR

LICENSEE EVENT REPORT 80-020

1. Cause Description and Analysis: On August 11, 1980, during the performance of Periodic Test PT-2.1 and the initiation of a start signal from the control board, "A" Safety Injection (SI) pump breaker failed to close. On September 16, 1980, further review of this event revealed that, during power operation, the failure would have resulted in operation in a degraded mode permitted by Technical Specification 3.3.1.2.b. This constitutes a reportable occurrence per Technical Specification 6.9.2.b.2. The cause of the failure was originally diagnosed as a loose control power fuse. Following the failure, the control fuses were pulled, tested, and when reinserted, the breaker operated successfully. However, later testing of the breaker revealed the cause of failure to be an intermittent high resistance breaker alarm switch contact in the breaker closing control circuit. The high resistance contact condition could be induced or cleared by jarring the breaker, which probably accounts for the breaker operating normally after the jar of removing and inserting the control fuses. This breaker had been tested successfully on August 9, 1980, during a monthly periodic test.

The two other SI pumps were operating properly during this period so there was no threat to the health and safety of the public.

2. Corrective Action: The breaker alarm switch contact was cleaned and the breaker tested several times successfully.
3. Corrective Action to Prevent Further Occurrence: The inspection of the breaker alarm switch contacts will be added to the Maintenance Instruction MI-19 data sheet which covers the inspection and calibration of 480 volt circuit breaker overcurrent tripping devices. This Maintenance Instruction will be revised prior to January 15, 1981.

A failure similar to this event occurred on April 14, 1979. (Reference: LER 79-08)