

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8011100391 DOC. DATE: 80/11/04 NOTARIZED: NO DOCKET #
 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261
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 RECIP. NAME RECIPIENT AFFILIATION
 Region 2, Atlanta, Office of the Director

SUBJECT: LER 80-025/01T-1: on 801021, during test of reactor protection logic, reactor protection relay RT-7 in reactor protection train A failed on 801022, relays RT-1 & RT-3 in train B failed. Caused by de-energized relay coils. Relays replaced.

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ACTION:	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 845		1	1					
EXTERNAL:	ACRS	46	16	16	LPDR	03	1	1	
	NSIC	05	1	1	TERA: DOUG MAY		1	1	

NOV 13 1980

4.5

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 S C H B R 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5
LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58
CON'T
0 1 REPORT SOURCE L 6 0 5 0 0 0 2 6 1 7 1 0 2 1 8 0 8 1 1 0 4 8 0 9
60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 At approximately 1300 hours on October 21, 1980, Reactor Protection Relay RT-7 in
0 3 Reactor Protection Train "A" failed. Then, at 0640 on October 22, 1980, Reactor
0 4 Protection Relays RT-1 and RT-3 in Reactor Protection Train "B" failed. These
0 5 failures occurred during the periodic test of the Reactor Protection Logic. This
0 6 constitutes a reportable occurrence per Technical Specification section 6.9.2.a.9
0 7 (LER-80-006), (LER-80-015).

0 8

0 9 I A 11 B 12 B 13 R E L A Y X 14 A 15 Z 16
SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
17 LER/RO REPORT NUMBER 8 0 21 22 0 2 5 24 26 0 1 28 29 T 30 31 0 32
EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRPD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
C 18 X 19 Z 20 Z 21 0 0 0 0 22 Y 23 Y 24 N 25 W 1 2 0 26
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 The failed (and replacement) relays are Westinghouse Model NBFD-31S, style 5072A49G03
1 1 with 125 to 130 volt coils. The relay coils were found de-energized which caused a
1 2 continuous reactor trip signal on the RTGB. The relays were replaced with identical
1 3 units and were tested satisfactorily. The failed relays will be returned to
1 4 Westinghouse for inclusion in their investigation of these failures.

1 5 H 28 0 0 0 29 NA 30 B 31
FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION
32 Periodic Test

1 6 Z 33 Z 34 NA 35 NA 36
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

1 7 0 0 0 37 Z 38 NA 39
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

1 8 0 0 0 40 NA 41
PERSONNEL INJURIES NUMBER DESCRIPTION

1 9 Z 42 NA 43
LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

2 0 N 44 NA 45
PUBLICITY ISSUED DESCRIPTION

NAME OF PREPARER R. B. Starkey, Jr.

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8011100394

NRC USE ONLY

SUPPLEMENTAL INFORMATION

FOR

LICENSEE EVENT REPORT 80-025

1. Cause Description and Analysis: On October 21, 1980, at approximately 1300 hours, with the plant in the cold shutdown condition, Reactor Protection Relay RT-7 in the "A" Reactor Protection Train failed during the periodic test of the Reactor Protection Logic. This relay was replaced and the performance of the periodic test continued. On October 22, 1980, while the periodic test was still being performed, two additional Reactor Protection Relays failed. These were RT-1 and RT-3 in the "B" Reactor Protection Train. In each case, the relays failed to reset following their being de-energized in response to a test signal from the RTGB.

The three failures appear to be the result of a shorting condition where the field wires connect to the coil wires. This is the same condition as reported previously on LER-80-006 and LER-80-015.

In each case, the relays failed in the fail-safe or reactor trip position. Therefore, there could be no threat to plant or public safety as a result of these failures.

2. Corrective Action: The relays were replaced with identical units and tested satisfactorily.
3. Corrective Action to Prevent Further Occurrence: The supplier of the NBFD-31S relay is continuing an investigation of these failures. These failed relays will be sent to assist in the ongoing investigation. No further information has been generated as to the cause of the failures.

The normal periodic testing of the Reactor Protection relays will continue. This testing, along with the status lights and alarms available to the operator, is considered adequate to insure the Reactor Protection System is maintained in a good, safe, operating condition.