

LICENSEE EVENT REPORT

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

0	1	F	L	C	R	P	3	0	0	-	0	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4	5		
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		
LICENSEE CODE														LICENSE NUMBER						LICENSE TYPE						57 CAT 58			

0	1	L	0	5	0	-	0	3	0	2	0	3	1	3	8	1	1	0	0	7	8	1	9				
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
REPORT SOURCE		DOCKET NUMBER										EVENT DATE						REPORT DATE									

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 At 2015 during normal operations, RC3, RC6, and RB3 relays tripped in ES Actuation

0 3 Channel B. This created an event contrary to Technical Specification 3.3.2.1. Main-

0 4 tenance was initiated. There was no effect upon the health or safety of the general

0 5 public. This is the seventh occurrence concerning ES cabinet relays and the eighteenth

0 6 event reported under this Specification.

0 7

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0	9	5	H	E	X	R	E	L	A	Y	X	A	Z				
7	8	9	10	11	12	13	14	15	16	17	18	19	20				
SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE						COMP. SUBCODE		VALVE SUBCODE			
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.							
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47			
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	
A	Z	Z	Z	0	0	0	0	Y	N	A	H	0	3	2			

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause is attributed to a failed Hamlin relay. The relay was replaced with a Crydon

1 1 relay. Post maintenance testing revealed two additional faulty relays. The relays

1 2 failed as a result of the initial relay failure and were replaced. Operability was re-

1 3 stored at 1315 on 3/14/81. Failed Hamlin relays are replaced with Crydon relays. This

1 4 revision affects corrective action only.

1	5	E	1	0	0	NA	A	Operator observation	
7	8	9	10	11	12	13	14	15	
FACILITY STATUS		% POWER			OTHER STATUS			METHOD OF DISCOVERY	
1	6	Z	Z	NA	NA	NA	NA	NA	
7	8	9	10	11	12	13	14	15	
ACTIVITY CONTENT		RELEASED OF RELEASE			AMOUNT OF ACTIVITY			LOCATION OF RELEASE	
1	7	0	0	0	Z	NA	NA	NA	
7	8	9	10	11	12	13	14	15	
PERSONNEL EXPOSURES		NUMBER			TYPE			DESCRIPTION	
1	8	0	0	0	C	NA	NA	NA	
7	8	9	10	11	12	13	14	15	
PERSONNEL INJURIES		NUMBER			DESCRIPTION				
1	9	Z	NA	NA	NA	NA	NA	NA	
7	8	9	10	11	12	13	14	15	
LOSS OF OR DAMAGE TO FACILITY		TYPE			DESCRIPTION				
2	0	N	NA	NA	NA	NA	NA	NA	
7	8	9	10	11	12	13	14	15	
ISSUED DESCRIPTION		PUBLICITY			8110160366 811007			NRC USE ONLY	
					PDR ADOCK 05000302				
					PDR				

NAME OF PREPARER: J. A. Buze PHONE: 904/795-6486

(SEE ATTACHED SUPPLEMENTARY INFORMATION SHEET)

SUPPLEMENTARY INFORMATION

Report No.: 50-302/81-019/03L-1

Facility: Crystal River Unit #3

Report Date: October 7, 1981

Occurrence Date: 13 March 1981

Identification of Occurrence:

Failure of the Engineered Safety Feature Actuation System
Instrumentation Channel contrary to Technical Specification
3.3.2.1.

Conditions Prior to Occurrence:

Mode 1 power operation (100%)

Description of Occurrence:

At 2015 during normal operations, RC3, RC6, and RB3 relays tripped in ES Actuation Channel B. Emergency safeguards did not actuate. Maintenance was initiated. Operability was restored at 1315 on 14 March 1981 after satisfactory completion of SP-130, Engineered safeguards Monthly Functional Test.

Designation of Apparent Cause:

The cause of this event is attributed to a failed Hamlin relay.

Analysis of Occurrence:

There was no effect upon the health or safety of the general public.

Corrective Action:

Hamlin relay model 723-12-740 was replaced with a Crydon Model A-2410. Post maintenance testing was conducted which indicated additional problems. Further troubleshooting revealed the failure of two (2) additional relays. The relays were replaced and the failure of the relays was considered to be a result of the initial failed relay. Upon failure, relays Model 723-12-740 are replaced with Crydon relays Model A-2410. Full scale replacement of Hamlin relays with Crydon relays has been deferred pending further evaluation of the suitability of Crydon relays for all applications. This revision affects corrective action only.

Failure Data:

This is the seventh occurrence concerning ES cabinet relays and the eighteenth event reported under this Specification.