

**CONTROL BLOCK:**

					(1)
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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

L	L	S	C	I	(2)	0	0	-	0	0	0	0	0	-	0	0	(3)	4	1	0	0	0	(4)			(5)	
LICENSEE CODE						14	15	LICENSE NUMBER								25	26	LICENSE TYPE							30	57 CAT	58

L	6	0	5	0	0	0	3	7	3	7	0	3	2	3	8	3	2	0	4	0	6	8	3	9		
60	61	DOCKET NUMBER										68	EVENT DATE					74	REPORT DATE							80

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On 3/23/83 Rockwell International informed LSCS Tech. Staff that problems existed during

IEEE-323 Environmental Qualification Testing of the Post-LOCA Hydrogen Recombiners.

Circuit breakers CB-13, CB-11, and CB-9 were found to have thermal overload trip and reset problems in a simulated Post-LOCA environment. If a LOCA had occurred, and the breakers had opened, a "Power on All Breakers" light at the recombiner control cabinet would have indicated the problem.

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE					
M	B	B	A	C	K	T	B	K	R	X	Z						
9	10	11	12	13	14	15	16	17	18	19	20						
LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.							
17	8	3	0	2	1	0	1	T	0								
21	22	23	24	25	26	27	28	29	30	31	32						
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-6 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	
X	F	Z	Z	0	0	0	0	Y	N	X	R	3	4	4			
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47			

## CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

Rockwell, the recombiner vendor, indicated that the 3 breakers had not been properly selected for LaSalle by a subcontractor. On 3/23/83 the breakers were jumpered out per LAP 240-6. Work Requests L23462 and L23463 were completed on 3/23/83. LST 83-34 tested the recombiners satisfactorily on 3/24/83.

FACILITY STATUS (8) B (28) % POWER (0) (0) (0) (29) OTHER STATUS (30) NA METHOD OF DISCOVERY (D) (31) Rockwell International Notification (32) DISCOVERY DESCRIPTION (32) 80

ACTIVITY CONTENT RELEASED OF RELEASE (Z) (33) (Z) (34) AMOUNT OF ACTIVITY (35) NA LOCATION OF RELEASE (36) 80

PERSONNEL EXPOSURES NUMBER (0) (0) (0) (37) TYPE (Z) (38) DESCRIPTION (39) NA 80

PERSONNEL INJURIES NUMBER (0) (0) (0) (40) DESCRIPTION (41) NA 80

LOSS OF OR DAMAGE TO FACILITY TYPE (Z) (42) DESCRIPTION (43) NA 80

PUBLICITY (N) (44) DESCRIPTION (45) 80

ISSUED (N) (44) DESCRIPTION (45) 80

8304130390 830406  
PDR ADDCK 05000373  
S PDR

NRC USE ONLY

68 69

NAME OF PREPARER

R. W. Houston

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- I. LER NUMBER: 83-021/01T-0
- II. LASALLE COUNTY STATION: Unit 1
- III. DOCKET NUMBER: 050-373
- IV. EVENT DESCRIPTION:

On March 23, 1983 at 1300 hours the Project Engineer of Rockwell International Energy Systems Group notified the LaSalle Station Technical Staff System Engineers for the Post LOCA Hydrogen Recombiners that problems existed during IEEE-323 Environmental Qualification Testing. Circuit breakers CB-13, CB-11, and CB-9 were found to have thermal overload trip and reset problems in a simulated Post-LOCA environment.

V. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

At the time of notification the Unit 1 Reactor was in Condition 3, Hot Shutdown. Had the Hydrogen Recombiners been required to operate in a high temperature Post-LOCA environment in the Secondary Containment, test results from Rockwell International, the recombinder vendor, indicate that the Heater Breaker, CB-13, Valve Starters Feeder Breaker, CB-9, and Control Transformer Primary Breaker, CB-11, would have tripped on thermal overload. However, troubleshooting the recombinders would have revealed the open breaker condition due to a "Power On All Breakers" light located at the recombinder control cabinet being extinguished. The problem would then have been corrected expeditiously. The Unit was maintained in a safe condition at all times.

VI. CAUSE:

In a letter to U.S. N.R.C. Region IV from Rockwell International Energy Systems Group, dated 3/11/83, Rockwell stated that the three circuit breakers selected by an ESG subcontractor for the LaSalle Station Hydrogen Recombiners had not been properly selected. The Rockwell report, number 83ESG-1483, delineated results of IEEE-323 Environmental Qualification Testing in which CB-13, CB-11, and CB-9 were found to automatically trip in a simulated, postulated Post-LOCA environment.

VII. CORRECTIVE ACTION:

On 3/23/83 at 1700 hours, following concurrence with CECO Station Nuclear Engineering Dept., preparations were made to bypass CB-13, CB-11, and CB-9 as an interim fix recommended by Rockwell. Work Requests #L23462 and L23463 were initiated to fabricate and install properly sized jumpers. The jumpers were installed per LAP 240-6. The two work requests were completed on 3/23/83. A special test, LST 83-34, tested the recombinders satisfactorily on 3/24/83.

Installation of properly sized magnetic breakers is currently considered the permanent corrective action. Modification M-1-1-83-48 will provide the necessary final resolution to this event.

Prepared by: R. W. Houston