

LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | S | C | H | B | R | 2 | 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

CON'T

REPORT SOURCE 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On 8-29-79 at 1119 hours during normal operations at 100% power, both SWBP's were rendered out of service when "B" SWBP was secured and "A" SWBP tripped; neither pump could be restarted immediately. During this period, "D" SW pump was out of service for routine maintenance. This is contrary to Paragraph 3.3.4.2 of the Technical Specifications and constitutes a reportable occurrence under Paragraph 6.9.2.a.2. Power reduction was immediately commenced. No adverse effects to the Plant or to the public health or safety occurred from this event.

SYSTEM CODE W A (11)		CAUSE CODE X (12)		CAUSE SUBCODE X (13)		COMPONENT CODE P U M P X X (14)				COMP. SUBCODE B (15)		VALVE SUBCODE Z (16)	
LER/RO REPORT NUMBER 7 8		EVENT YEAR 7 9 (17)		SEQUENTIAL REPORT NO. 0 3 0 (22)		OCCURRENCE CODE 0 1 (27)		REPORT TYPE T (30)		REVISION NO. 0 (32)			
ACTION TAKEN X (18)		FUTURE ACTION X (19)		EFFECT ON PLANT B (20)		SHUTDOWN METHOD Z (21)		HOURS 0 0 0 1 (22)		ATTACHMENT SUBMITTED Y (23)		NPRD-4 FORM SUB. Y (24)	
PRIME COMP. SUPPLIER N (25)		COMPONENT MANUFACTURER W 3 1 5 (26)											

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The starting and stopping of "B" SWBP apparently caused pressure fluctuations which
1 1 tripped "A" SWBP on low suction pressure. Both pumps failed to restart apparently
1 2 because of low service water system pressure. "D" service water pump was out of ser-
1 3 vice for routine maintenance. Power reduction was in effect until the SWBP's were
1 4 returned to service. A change in design of the tripping logic for the SWBP's is being
7 8 9 considered to prevent recurrence. (CON'TO

FACILITY STATUS (1) 5 (E) (28) % POWER (1) 0 0 (29) NA OTHER STATUS (30) METHOD OF DISCOVERY (A) (31) Operator Observation DISCOVERY DESCRIPTION (32)

ACTIVITY CONTENT
RELEASED OF RELEASE

1 6 33 Z NA

7 8 9 10 11

AMOUNT OF ACTIVITY (35)

NA

LOCATION OF RELEASE (36)

45 80

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

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

1		9		Z		42		NA		43	
TYPE		DESCRIPTION									

7		8	9	10											80
		PUBLICITY													
ISSUED		DESCRIPTION			7 909170 366										NRC USE ONLY
2	0	N	(44)	NA											
7	8	9	10											68	
															69
															80

NAME OF PREPARER R. B. Starkey, Jr.

PHONE: 803-383-4524

Facility: HBR-2

Event Date: 08-29-79

CAUSE DESCRIPTION AND ANALYSIS:

On August 29, 1979, at 1009 hours, "D" Service Water Pump (SWP) was taken out of service for preventive maintenance. At 1118 hours, "B" Service Water Booster Pump (SWBP) was started and at 1119 hours, it was stopped by the Control Operator, followed by "A" SWBP tripping apparently on low suction pressure. Both pumps failed to restart after repeated attempts. Normally during the summer, due to the heat load requirements, four service water pumps are run continuously, but at the time of this event, "D" SWP was out of service (one SWP is allowed out of service for 24 hours as per Technical Specifications). The service water system pressure was increased by throttling one of the CCW heat exchanger outlet valves, and this enabled starting of the service water booster pumps. Upon loss of the SWBP's, immediate reduction in power had commenced and continued until 1130 hours when both SWBP's were returned to service. Operation with a SWBP in addition to a SWP out of service is contrary to Paragraph 3.3.4.2 of the Technical Specifications and constituted a reportable occurrence under Paragraph 6.9.2.a.2. No adverse effects to the plant or to the public health or safety is considered to have occurred from this event.

CORRECTIVE ACTION:

Both SWBP's were immediately attempted to be restarted without success; power reduction was commenced and continued until the SWBP's were returned to service. The service water system pressure was increased to allow starting of the SWBP's.

CORRECTIVE ACTION TO PREVENT FURTHER OCCURRENCE:

A design change in the tripping logic for low suction pressure for the SWBP's is being considered. A review of SW system operation using three SWP's is to be performed to assure adequate supply header pressure for normal stopping and starting of SWBP's.