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SUBJECT: LER 79=005/03L=0 ON 790313:WHILE RUNNING "B" BORIC ACID TRANSFER PUMP, PUMP TRIPPED DUE TO HIGH TEMP.CAUSED BY BROKEN SHAFT.PUMP REBUILT & RETURNED TO SVC.

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ACTION:	05 BC ORG 1	4	4					
INTERNAL:	O1 REG FILE	1	1	20	NRC PDR	1	1	
	09 18E	5	2	11	MPA	3	3	
	14 TA/EDO	1	1	15	NOVAK/KNIEL	1	1	
	16 EEB	1	1	17	AD FOR ENGR	1	1	
	18 PLANT SYS BR	1	1	19	I&C SYS BR	1	1	
	20 AD PLANT SYS	1	1	21	AD SYS/PROJ	1	1	
	22 REAC SAFT BR	1	1	23	ENGR BR	1	1	
	24 KREGER	1	1	25	PWR SYS BR	1	1	
	26 AD/SITE ANAL	1	1	27	OPERA LIC BR	1	1	
	28 ACDENT ANLYS	1	1	59	AUX SYS BR	1	1	
	E JORDAN/IE	1	1					
EXTERNAL:	03 LPDR	1	1	04	NSIC	1	1	
	29 ACRS	16	16					

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NRC FORM 366 U. S. NUCLEAR REGULATOP ...MMISSION (7.77)LICENSEE EVENT REPORT CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) 0 0 0 0 0 - 0 LICENSE NUMBER 0 3 4 1 1 1 1 4 57 CATLICENSEE CODE CON'T REPORT L 6 0 5 0 0 0 2 6 1 7 0 3 1 3 7 9 8 0 4 1 1 7 9 9 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80 0 1 SOURCE EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) | During normal operation on March 13, 1979, while running "B" Boric Acid Transfer Pump 0 2 (BATP) to recirculate the BIT with the BAST as required by PT-2.7, the pump tripped 0 3 due to high temperature at 2300 hours. The pump was allowed to cool for 28 minutes 0 4 and was restarted and tested satisfactorily. However, at 1240 hours on April 14, the 0 5 pump failed due to a broken shaft. Tentative plans are to replace this pump with a 0 6 more reliable model during the 1979 Refueling Outage. "A" Pump has been changed 0 7 already. (Technical Specifications 3.2.3.b and 6.9.2.b). 0 8 9 80 8 SYSTEM CODE CAUSE CAUSE SUBCODE COMP VALVE COMPONENT CODE SUBCODE SUBCODE P C (11 E (12 9 U M P X X B (15) [Z] (16) P 13 OCCURRENCE REVISION SEQUENTIAL REPORT REPORT NO CODE EVENT YEAR TYPE LEB'RO NC. (17) REPORT 9 0 0 LÌ 5 0 3 0 NUMBER 30 32 ACTION FUTURE FEFECT SHUTDOWN NPRD-4 PRIME COMP COMPONENT ATTACHMENT SUBMITTED HOURS (22) ON PLANT FORM SUB. SUPPLIER MANUFACTURER 0000 Z (20) Z (21) $\left[\begin{array}{c} Y \\ 42 \end{array} \right] (24)$ Y 23 N (25) 3 0 0 (26) CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) The "B" BATP failed due to a broken shaft. The pump had tripped about twelve hours 1 0 earlier due to high temperature, which could have contributed to this failure. The 1 failed pump was rebuilt and returned to service. "A" Pump was operable during this 2 sequence of events, so there was no threat to the health and welfare of the public. 3 1 4 9 80 FACILITY METHOD OF (30) OTHER STATUS % POWER DISCOVERY DESCRIPTION (32) DISCOVERY (28) 0 (29 B (31) Operator Observation 10 80 46 ACTIVITY CONTENT RELEASED_OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36) Z 33 Z 34 NA 6 NA 10 80 PERSONNEL EXPOSURES DESCRIPTION (39) NUMBER TYPE 0 0 0 37 Z 38 7 NA PERSONNEL INJURIES 80 DESCRIPTION (41) NUMBER 0 0 0 40 8 NA 11 12 80 LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION Z (42) 9 NA 10 80 PUBLICITY NRC USE ONLY DESCRIPTION (45) 7904180127 ISSUED. N (44) 0 NA 10 68 69 80 16 GPO (803)332-1351 R. B. Starkey, Jr NAME OF PREPARER. PHONE:

SUPPLEMENTAL INFORMATION

FOR

LICENSEE EVENT REPORT 79-05

1. <u>Cause Description and Analysis:</u>

On March 13, 1979, during full-power operation, the monthly test of the Safety Injection System, P.T.-2.7, was being conducted. At 2300 hours, it was noted that the "B" Boric Acid Transfer Pump (BATP) had tripped due to overheating while recirculating the Boron Injection Tank (BIT) with the Boric Acid Storage Tank (BAST). The pump was allowed to cool for 28 minutes and was restarted and tested satisfactorily. However, about 12 hours later at 1240 hours on April 14, the pump failed due to a broken shaft. This sequence of events is being reported as one event due to the time element invloved and the possible connections between the occurrences. The performing of PT-2.7 requires several hours of run time on Boric Acid Transfer Pumps because the BIT is recirculated with the BAST after each SI Pump is tested. The "A" BATP was operable during this entire sequence of events. No reason for the overtemperature trip preceeding the shaft failure could be positively determined. When the failed pump was inspected, the stator was also found defective. However, this defect is believed to have resulted from the shaft failure. The shaft failure is believed to be a generic problem with shaft design.

2. Corrective Action:

The "B" Boric Acid Transfer Pump was rebuilt with new components and was tested satisfactorily.

3. Corrective Action To Prevent Further Occurrence:

There have been several failures of this type on the Chempump Model GE-20K. The failed shaft was a standard part from Chempump and had been in service since April 12, 1976. The stator had been in service since January 31, 1977. The "A" BATP has been changed to a Model GVH-10K, which has proven reliable in almost three years of service. Tentative plans are for the "B" Pump to be replaced by a Model GVH-10K during the 1979 Refueling Outage.