NRC.FOR	366			U. S. N	UCLEAR REGULATORY	COMMISSION
G-771		LICE	NSEE EVENT R	EPORT		
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012	On 11/02/82	charging pump serv	vice water pu	mp 2-SW-P-10B e	xperienced a lo	ss of
03	suction pres	sure. Inoperabilit	ty of this pu	mp is contrary	to Tech. Spec.	
014	3.3.A.8.b at	nd reportable per Te	ech. Spec. 6.0	6.2.b.(2). Sin	ice the redundan	t
05	charging pur	np service water pun	np (2-SW-P-10)	A) remained ope	rable, the heal	th and
016	safety of th	e public were not a	iffected.			
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	17 LER/RO REPORT NUMBER LCTION FUTURE TAKEN ACTION X 18 F 19 34	CEAR SEQUE 2] 23 22 23 23 0 24 EFFECT SHUTDOWN N PLANT METHOD 2] 20 2] 21 35 36	NTIAL NT NO. 26 27 HOURS 22 A 0 0 0 0 0 40	OCCURRENCE CODE 28 20 TTACHMENT NPRD4 NUBMITTED FORM SUB Y 23 N		VISION NO. 32 COMPONENT ANUFACTURER 0 7 5 26 47
	CAUSE DESCRIPTION	AND CORRECTIVE ACTIONS	(27) was due to in	nsufficient NPS	SH. Service wat	er flow
	1110 1055 01 1	ditioning shillow	throttl	ad and the num	m was vented to	restore
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1 2	NPSH.					
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7 8			METHOD OF		(7)	80
115				Operator Obse	ervation	80
16	LEASED OF RELEASE	AMOUNT OF ACTIVITY		N/A LOCA	TION OF RELEASE 36	
17	NUMBER	E DESCRIPTION 39	N/A			
	PERSONNEL INJURIE	CRIPTION (1)	N1/A			1
7 8	LOSS OF OR DAMAGE TO	FACILITY (3)	N/ A	8212090098 PDR ADOCK 0	B21130 5000280	09
1 9	Z (42)		N/A		NPC IS	SE ONL /
[]]]	SSUED DESCRIPTION	45)	N/A			
7 8	9 10	J. L. Wild	son	34.04	(804) <u>357-318</u>	14

ATTACHMENT 1 SURRY POVER STATION, UNIT NO. 2 DOCKET NO: 50-281 REPORT NO: 82-060/03L-0 EVENT DATE: 11-02-82

TITLE OF THE EVENT: INOPERABLE CHARGING PUMP SERVICE WATER FUMP

1. Description of the Event:

On November 2, 1982, with the unit at full power, operations personnel performing equipment rotations discovered that Charging Pump Service Water Pump 2-SW-P-10B was air bound and could not develop discharge pressure. Inoperability of this pump is contrary to Technical Specification 3.3.A.8.b and is reportable in accordance with Technical Specification 6.6.2.b.(2).

2. Probable Consequences and Status of Redundant Equipment:

The charging pump service water pumps supply cooling water to the charging pump intermediate seal coolers and the charging pump lubricating oil coolers. During the short period of time that the pump was inoperable, the redundant pump (2-SW-P-10A) remained operable. Therefore, the health and safety of the public were not affected.

3. Cause:

The presence of air in the pump is due to insufficient NPSH. Four charging pump service water pumps, along with three Air Conditioner Chiller units are located in No. 3 equipment room. The aforementioned components are supplied with service water, via rotating strainers, from two 6" supply lines. Each supply line is gravity fed from the intake canal.

Two-inch branch lines supply service water to the charging pump service water pumps, while the service water lines to the chiller units are four-inch lines.

Experience has shown that the performance of the charging pump service water pumps are sensitive to the available NPSH.

A recent modification (DC 80-42) attempted to resolve the NPSH problems of the service water system. Installation and testing, completed in early spring, indicated satisfactory performance; however, an intermittent problem is still indicated. Both Service Water Suction lines have been cleaned to reduce pressure losses due to marine fouling, but the problem remains.

4. Immediate Corrective Action:

The service water flow through the air conditioning chillers was reduced, thereby increasing the available NPSH to the service water pumps. The service water pump was vented and returned to service.

5. Subsequent Corrective Action:

None.

6. Action Taken to Prevent Recurrence:

A design change has been initiated that will relocate two of the charging pump service water pumps, i.e. lower the pumps and increase the size of the suction piping to the pumps. In an effort to reduce air inleakage in the suction header, a preventative maintenance procedure has been implemented.

7. Generic Implications:

The NPSH problem is Generic at both Surry Units.