# LICENSEE EVENT REPORT

CONTROL BLOCK	PL (PL	EASE PHINT ON TYPE ALL REC	UIRED INFORMATION	
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	lace "B" charging pump	in service with "C"	pump in pull-to-	ock
and "A" pump operat	ing, it was found that	the motor coupling	for the auxiliary	
oil pump for "B" pum	p was sheared. "B" pu	mp was declared inop	erable and "C" pun	np wa
prepared for service	on the alternate feede	er. Operation with t	wo inoperable char	g-
ing numps is contrar	v to T.S.3.2.C.1 and r	eportable per T.S.6.	6.2.b(2). Since t	he
"" pump was placed i	n service within 24 ho	ours in accordance wi	th T.S.3.3.4B.2. t	he
	the public were not a			
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ATTACHMENT 1

SURRY POWER STATION, UNIT 1

DOCKET NO: 50-280

REPORT NO:

81-049/03L-0

EVENT DATE:

09-14-81

TITLE OF THE EVENT: TWO CHARGING PUMPS INOPERABLE

### 1. DESCRIPTION OF EVENT:

While preparing to place "B" charging pump in service with "C" charging pump in pull-to-lock and "A" pump operating, t was found that the motor coupling for the auxiliary oil pump for "B" charging pump was sheared. "B" charging pump was declared inoperable and "C" pump was prepared for service on the alternate electrical feeder. Operation with two inoperable charging pumps is contrary to T.S.3.2.C.1 and reportable per T.S.6.6.2.b(2).

# PROBABLE CONSEQUENCES:

The charging pumps supply makeup water to the reactor coolant system, RCP seal injection, as well as High Head Safety Injection. One pump, however, is sufficient to supply 100% of the charging and High Head Safety Injection requirements.

During this event, two charging pumps were operable within 6 minutes, which is in accordance with the T.S.3.3.B.2 requirement of two pump operability within 24 hours; therefore, the health and safety of the public were not affected.

#### 3. CAUSE:

The auxiliary oil pump motor for "B" charging pump had a sheared coupling which caused the charging pump lube oil system to be incapable of supplying sufficient lubrication during pump starts. Therefore, charging pump "B" was declared inoperable.

With "A" pump operating and "C" pump on the normal feeder, both operable charging pumps were being supplied from the same emergency bus. In order to provide a diverse power supply for the "C" pump, it was prepared for service on the alternate feeder. During 'he short time required for this action, "C" pump was inoperable.

## IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action was to place "C" charging pump in service on the alternate feeder power supply. The pump was operable on the alternate feeder within 6 minutes.

## SUBSEQUENT COR COTIVE ACTION:

A new auxiliary oil pump for "B" charging pump was installed. "B" pump was returned to service within 48 hours.

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6. ACTION TO PREVENT RECURRENCE:

None deemed necessary.

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7. GFNERIC IMPLICATIONS:

None.