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US NUCLEAR REGULATORY COMMISSION

APPHOVED OME NO. 3150-0104 EXPIRES 8/31/85

PAGILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)	PAGE (B	
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On August 28, 1984, while on a scheduled tour of the reactor building, a station operator detected lube oil leakage in the HPCI pump room. The origin of the lube oil leakage was traced to a failed diaphragm on the HPCI turbine overspeed trip auto reset control valve actuator. The HPCI system was then declared inoperable by the station Shift Supervisor at 1652. Operational testing on other core and containment cooling systems as required by station Technical Specifications was performed as a result of declaring the HPCI system inoperable.

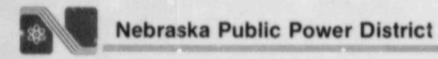
The function of the subject control valve is to regulate the duration of an overspeed trip condition; i.e., the time period from overspeed trip to overspeed trip reset. A detailed description of the HPCI overspeed trip system can be found in the HPCI vendor manual located at Cooper Nuclear Station.

Failure of the control valve disphragm causes the control valve to fail closed. This condition would preclude proper operation of the overspeed trip piston in the event of an overspeed event. However, this condition would not affect normal operation of the HPCI pump.

The control valve diaphragm failure occurred during the daily EPCI turbine stop valve cycling surveillance. The stop valve is cycled by operating the HPCI control oil system using the HPCI auxiliary oil pump. When this surveillance is performed, other components in the control oil system are also cycled, such as the overspeed trip auto reset control valve. The diaphragm leakage was detected shortly after this surveillance was performed on August 28, 1984. Total lube oil leakage was estimated at two gallons. The HPCI lube oil reservoir has a capacity of 155 gallons. The control valve diaphragm was replaced and the HPCI system was declared operable at 2219.

A review of plant equipment history information indicated that the failed diaphragm was the original diaphragm supplied with the HPCI unit. Therefore, the diaphragm failure is believed to be an end of component life failure. Corrective action has been taken to place the diaphragm in the plant preventative maintenance program. The diaphragm will be replaced on a two year refueling outage frequency. This event presented no adverse consequences from the standpoint of public health and safety and has no generic significance. No further action is planned.

NRC Form 368A



COOPER NUCLEAR STATION P.O. BOX 98, DROWNVILLE, NEBRASKA 68321 TELEPHONE (402) / 25-3811

CNSS840364

September 26, 1984

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Dear Sir:

Cooper Nuclear Station Licensee Event Report 84-011 is forwarded as an attachment to this letter.

Sincerely,

P. V. Thomason Division Manager of Nuclear Operations

PVT:1b Attach. cc: J. T. Collins L. G. Kuncl J. D. Weaver L. R. Berry INPO Records Center ANI Library

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