

CONTROL BLOCK:

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 (1)

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7	8	9	LICENSEE CODE					14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	57	CAT	58

CON'T

0	1
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REPORT SOURCE

L	6	0	5	0	0	0	2	5	4	7	0	4	1	5	8	2	8	0	5	1	2	8	2	9
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DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | On April 15, 1982, surveillance test procedure QOS 1000-2 (Residual Heat Removal
0 3 | System (RHRS) Pump Operability) was being performed. During the test, the "D"
0 4 | RHR Service Water booster pump outboard bearing was found to be failed, and the
0 5 | pump was declared inoperable. The remaining components of that RHRS loop and
0 6 | the Containment Cooling Mode on the other RHRS loop were immediately demonstrated
0 7 | operable. All modes of the RHR System would have always met their design
0 8 | criteria, thus there was no affect on safe plant operation.

SYSTEM CODE C F 11		CAUSE CODE E 12		CAUSE SUBCODE B 13		COMPONENT CODE P U M P X X 14		COMP. SUBCODE B 15		VALVE SUBCODE Z 16							
EVENT YEAR 8 2 21		SEQUENTIAL REPORT NO. 0 0 7 24		OCCURRENCE CODE / 27		REPORT TYPE L 30		REVISION NO. 0 32									
ACTION TAKEN A 18		FUTURE ACTION Z 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB. Y 24		PRIME COMP. SUPPLIER N 25		COMPONENT MANUFACTURER 1 0 7 5 26	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Failure of the pump bearing was due to excessive leakage from the adjacent
1 1 packing. Water from the leaking packing diluted the oil in the bearing
1 2 resulting in premature bearing failure. The outboard bearing and adjacent
1 3 packing were replaced. On April 22, 1982, the "D" RHR Service Water pump was
1 4 tested operable and returned to service.

FACILITY STATUS (1) 5 (E) (28) 0 8 4 (29) OTHER STATUS (30) NA
 METHOD OF DISCOVERY (B) (31) Operator Observation (32)
 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)
 (1) 6 (Z) (33) (Z) (34) NA LOCATION OF RELEASE (36)

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

PERSONNEL INJURIES		NUMBER		DESCRIPTION	
1	2	0	0	0	NA

LOSS OF OR DAMAGE TO FACILITY		(43)
TYPE	DESCRIPTION	
19 Z (42)	NA	

PUBLICITY
ISSUED N 44 DESCRIPTION 45 NA

NRC USE ONLY

8205200168 820512
PDR ADOCK 05000254
S PDR

⁵ Hannum

PHONE 309-654-2241, ext. 193

- I. LER NUMBER: LER/RO 82-07/03L-0
- II. LICENSEE NAME: Commonwealth Edison Company
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit One
- IV. DOCKET NUMBER: 050-254
- V. EVENT DESCRIPTION:

On April 15, 1982, at 2045 hours, QOS 1000-2, Residual Heat Removal System (RHRS) Pump Operability surveillance testing for the Unit One "D" RHR Service Water Pump began. At 2050 hours the pump was shut off because the outboard pump bearing had failed and the pump was declared inoperable. As required by Technical Specification 3.5.B.2 and 4.5.B.2, all remaining components of the associated RHRS loop and the other Containment Cooling loop were immediately demonstrated to be operable. Work Request Q18799 was written to repair the failed bearing.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

All other components of both loops of the RHR Service Water System were operable at the time of the event and during the repair. Thus, all modes of the RHR System would have met their design criteria if required. This occurrence did not affect safe plant operation.

VII. CAUSE:

The cause of the occurrence was due to mechanical failure of the booster pump outboard bearing. Excessive packing leakage from the booster pump outboard stuffing box sprayed water on the outboard bearing. Water entered the bearing housing, diluted the lubricating oil, and caused premature failure of the bearing.

VIII. CORRECTIVE ACTION:

The outboard stuffing box of the "D" RHR Service Water pump was repacked and the outboard bearing was replaced. The pump was demonstrated operable and returned to service, on April 22, 1982. The booster pump is manufactured by Ingersol Rand, Model 8GT. The bearing is manufactured by SKF Bearings. Installation of bearing seals is being evaluated by the Station Mechanical Maintenance Department. A bearing seal may enhance bearing life by isolating the bearing from any water inleakage.