

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

DOCKET NUMBER (2)

0 5 0 0 0 3 3 3 1 OF 0 2

PAGE (3)

TITLE (4)

REACTOR TRIP DUE TO LOW WATER LEVEL

EVENT DATE (5)
MONTH DAY YEAR
0 3 2 2 8 4 8 4
LER NUMBER (6)
SEQUENTIAL NUMBER
0 0 9
REVISION NUMBER
0 0 0
REPORT DATE (7)
MONTH DAY YEAR
0 4 1 9 8 4
OTHER FACILITIES INVOLVED (8)
FACILITY NAMES
DOCKET NUMBER(S)
0 5 0 0 0THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)
OPERATING MODE (9) N
POWER LEVEL (10) 0 6 7
20.402(b)
20.406(a)(1)(i)
20.406(a)(1)(ii)
20.406(a)(1)(iii)
20.406(a)(1)(iv)
20.406(a)(1)(v)
20.406(c)
50.36(e)(1)
50.36(e)(2)
50.73(a)(2)(i)
50.73(a)(2)(ii)
50.73(a)(2)(iii)
50.73(a)(2)(iv)
50.73(a)(2)(v)
50.73(a)(2)(vi)
50.73(a)(2)(vii)
50.73(a)(2)(viii)(A)
50.73(a)(2)(viii)(B)
50.73(a)(2)(ix)
73.71(b)
73.71(c)
OTHER (Specify in Abstract below and in Text, NRC Form 366A)LICENSEE CONTACT FOR THIS LER (12)
NAME
ROBERT T. LISENO, MAINTENANCE SUPERINTENDENT
TELEPHONE NUMBER
AREA CODE
3 1 5 3 4 2 - 3 8 4 0COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NRC
X B J C O N D G 2 4 0 Y
X S J P I I W 3 1 8 NSUPPLEMENTAL REPORT EXPECTED (14)
YES (If yes, complete EXPECTED SUBMISSION DATE) X NO
EXPECTED SUBMISSION DATE (15)
MONTH DAY YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

While operating at 67% power with a single reactor feed pump in operation, a reactor scram occurred as a result of low reactor vessel level. The cause of the loss of vessel level was a failure of the operating feed pump bearing. The transient proceeded normally with reactor level being restored by the RCIC and HPCI systems. During cooldown after the need for automatic HPCI injection had passed it was noted that a gasket had failed on the HPCI gland seal condenser. To isolate the leakage the HPCI system was made inoperative. The plant was placed in cold shutdown while repairs to the feed pumps were completed. Since the major systems operated as designed, no significant hazard existed to the public's health and safety.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) JAMES A. FITZPATRICK NUCLEAR POWER PLANT	DOCKET NUMBER (2) 0 5 0 0 0 3 3 3 8 4 - 0 0 9 - 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 365A's) (17)

While operating at 67% power a reactor scram occurred as the result of low reactor vessel level. The plant was operating with a single reactor feed pump due to vibration problems with the other unit. The operating feed pump was lost when a bearing oil subsequent failure of the inboard pump bearing. Vessel level decreased to a minimum of 115 inches above TAF (205 inches is normal). Both HPCI and RCIC initiated automatically and were used to restore and maintain level. Primary containment isolations occurred properly. The plant was cooled down and placed in cold shutdown while repairs were made to the reactor feed pumps.

During the transient a gasketed flange on the HPCI gland seal condenser developed a large leak. This did not affect the operability of the system but resulted in an accumulation of water in the HPCI area.

Plant conditions were stable and the need for HPCI had passed. HPCI was declared inoperable and the leak isolated before the plant was cooled down to <150 psig. The cause of the leak was an extruded gasket. The gasket was replaced and torqued in accordance with manufacturers instructions. The HPCI turbine was successfully tested during the subsequent startup. Refer to LER 84-010 for further discussion of this problem.

The B reactor feed pump was disassembled and inspected internally for damage. None was found other than the bearing failure. The pump inboard bearing was replaced and the failed oil line repaired. The cause of the loss of lube oil was a fatigue failure of a threaded nipple in the oil supply to the bearing. The reactor feed pumps will be considered for inclusion in an expanded QA program for balance of plant equipment.

Since the major systems performed as designed and the transient proceeded in the expected fashion, no significant hazard existed to the public health and safety.

James A. FitzPatrick
Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093
315 342.3840



April 19, 1984
JAFP 84-0429

Corbin A. McNeill, Jr.
Resident Manager

Document Control Desk
United States Nuclear Regulatory Commission
Washington, DC 20555

REFERENCE: DOCKET NO. 50-333
LICENSEE EVENT REPORT: 84-009-00

Dear Sir:

We have enclosed the referenced Licensee Event Report in accordance with 10CFR50.73.

If there are any questions concerning this report, please contact Mr. Robert Liseno at 315-342-3840, extension 220.

Very truly yours,

by dir. *R. McNeill*
CORBIN A. MCNEILL, JR.
RESIDENT MANAGER

CAM:RTL:nan
Enclosure

CC: Regional Administrator (1)
INPO Records Center, Atlanta, Ga. (1)
Internal Power Authority Distribution
NRC Resident Inspector
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LER/OR File

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