

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) JAMES A. FITZPATRICK NUCLEAR POWER PLANT DOCKET NUMBER (2) 050003333 PAGE (3) 1 OF 2

TITLE (4) CONTAINMENT COOLING INOPERATIVE

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
01	18	84	84	001		01	02	84			050003333

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)									
POWER LEVEL (10) 100	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)						
	20.406(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)							
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
	20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)  
NAME ROBERT LIENO, MAINTENANCE SUPERINTENDENT  
TELEPHONE NUMBER 315 342-3840  
AREA CODE 315

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	
E	B	O	I	S	V	L	2	O	O	N
X	B	I	P		A	1	8	O	Y	

SUPPLEMENTAL REPORT EXPECTED (14)  
YES (If yes, complete EXPECTED SUBMISSION DATE) NO  
EXPECTED SUBMISSION DATE (15)  
MONTH DAY YEAR

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

On January 13, 1984 while conducting surveillance testing for inoperative valve 10-MOV-39B, the B side suppression pool cooling and spray isolation valve, the C RHR service water pump failed. This placed the plant in a condition requiring the plant to be in cold shutdown within 24 hours per Technical specification 3.5.B. The valve was repaired within 10 hours thereby restoring the B side containment cooling system to full operability. Repairs to C RHR service water pump were completed on January 23, 1984. The pump failed as the result of the impeller becoming disconnected from the shaft due to a worn impeller collet.

On January 30, 1984 the recently repaired C RHR service water pump was found to be vibrating excessively during surveillance testing and again declared inoperable. During subsequent testing the B ESW pump tripped and was declared inoperable (refer to LER 84-002-000 for details of the B ESW pump problem). Repairs to the C RHR service water pump were completed on February 4, 1984. The pump vibration was the result of the second stage impeller slipping on the shaft due to an out of dimension impeller collet.

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PDR ADOCK 05000333  
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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On December 23, 1983 it was reported via LER 83-060 that the motor operator on the combined isolation valve for B side suppression pool cooling and spray, 10-MOV-39B, had been replaced several years earlier with one whose design and QA classification were deficient. On January 18, 1984 while conducting surveillance testing to remove this valve from service and correct the deficiency, a failure of the C RHR service water pump occurred degrading the A side containment cooling mode. In accordance with Technical Specification 3.5.B, preparations for a shutdown were begun. Replacement of the operator on 10-MOV-39B was expedited and the valve was restored to service within ten (10) hours. The preparations for plant shutdown was terminated.

Repairs to the C RHR service water pump were completed on January 23, 1984. The cause of the failure of the C RHR service water pump was the loosening of the collet holding the second stage impeller to the shaft. This collet had been identified as worn when the pump was disassembled in December 1983 due to high vibration (LER-83-061). However, parts availability precluded collet replacement then. No personnel or procedural error was identified in the pump re-assembly. Periodically other RHR service water pumps have been disassembled and this collet condition did not exist. Due to the availability of the A RHR service water pump which is on the same side as the C pump and the short time that both containment cooling systems were degraded, a significant hazard to the public health and safety did not exist.

During routine surveillance testing on January 30, 1984 the C RHR service water pump began to vibrate excessively again. The pump was declared inoperative. During the subsequent testing B ESW pump tripped resulting in another 24 hour LCO (refer to LER 84-002-00 for details of the B ESW pump problem). This condition existed from 1057 to 1855 on January 30, 1984 when B ESW pump was initially restored to service and from 1045 to 1127 on February 3, 1984 when B ESW pump was again removed from service. During these times both trains of containment cooling were degraded although all containment cooling capability was not removed from either loop.

C RHR service water pump was again disassembled. The second stage impeller had loosened and moved on the pump shaft. The cause was determined to be a collet whose dimensions and shape precluded a strong, tight fit between the collet and shaft. The collet was replaced. Subsequently, the pump was started successfully numerous times to assure the problem would not reoccur. The pump was declared operable at 1110 on February 4, 1984.

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



Corbin A. McNeill, Jr.  
Resident Manager

February 16, 1984  
JAFF 84-0198

Document Control Desk  
United States Regulatory Commission  
Washington, DC 20555

REFERENCE: DOCKET NO. 50-333  
LICENSEE EVENT REPORT: 84-001-01

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,

A handwritten signature in cursive script, appearing to read 'C. McNeill'.

CORBIN A. McNEILL, JR.  
RESIDENT MANAGER

CAM:RTL:nan  
Enclosure

CC: USNRC, Region I (1)  
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Internal Power Authority Distribution  
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LER/OR File

IE22  
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