

CONTROL BLOCK:

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 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T

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REPORT SOURCE

L	6	0	5	0	0	0	3	3	3	7	1	0	2	2	8	3	8	0	6	0	1	8	4	9
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60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | UPDATE REPORT: During normal full power operation the HPCI System was declared

0 3 | inoperable when required by Technical Specification 3.5.C. Other systems were

0 4 | tested as required by Technical Specification 4.5.C.1.a and were fully operable.

5 5 | The event did not represent a significant hazard to public health and safety. See

0 6 | attachment for additional information.

0 7 |

0 8 |

SYSTEM CODE S F 11		CAUSE CODE E 12		CAUSE SUBCODE X 13		COMPONENT CODE V A L V E X 14		COMP. SUBCODE F 15		VALVE SUBCODE D 16	
EVENT YEAR 8 3 22		SEQUENTIAL REPORT NO. 0 4 9 26		OCCURRENCE CODE 0 3 29		REPORT TYPE X 30		REVISION NO. 1 32			
ACTION TAKEN A 18		FUTURE ACTION X 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 S 0 7 5 26							

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 HPCI inoperability was caused by fracture of the turbine stop valve stem as a
1 1 result of excessive tensile stress. The excessive stress was the result of
1 2 improper adjustment of the stop valve balance chamber. Corrective action included
1 3 replacement of the valve stem and adjustment of the balance chamber. See attachment
1 4 for additional information.

7	8	9	FACILITY STATUS										% POWER										OTHER STATUS										METHOD OF DISCOVERY										DISCOVERY DESCRIPTION										80
1	5		R										000										NA										A										Operator observation										80
7	8	9	ACTIVITY CONTENT										AMOUNT OF ACTIVITY																														80										
1	6		Z										NA																				LOCATION OF RELEASE																				
7	8	9	RELEASED OF RELEASE										AMOUNT OF ACTIVITY																																								
1	6		Z										NA																																								

PERSONNEL EXPOSURES

NUMBER		TYPE	DESCRIPTION
1	7	Z	NA

PERSONNEL INJURIES		NUMBER		DESCRIPTION	
1	3	0	0	0	40 NA

7 8 9 11 12

8406080124 840601

80

LOSS OF OR DAMAGE TO FACILITY (43)
TYPE DESCRIPTION NA
S PDR ADCK 05000333
S PDR

PUBLICITY (45)
ISSUED (44) DESCRIPTION (45) NA
7 8 9 10 68 69 80
NRC USE ONLY

NAME OF PREPARER Peter Schlaue

PHONE: 315-342-3840

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

DOCKET NO. 50-333

ATTACHMENT TO LER 83-049/03X-01

PAGE 1 of 1

During a plant inspection on October 10, 1983, the HPCI stop valve stem was noticed to have fractured. The system was declared inoperable, placing the plant in a seven day limiting condition of operation, per Technical Specification, Section 3.5.C. Redundant safety systems were surveillance tested in accordance with Technical Specification Section 4.5.C.1.a. No significant hazard to the public existed since redundant safety systems were available.

Immediate corrective action was to replace the existing stem. The failed stem was sent to Battelle Columbus Laboratories for metallurgical failure analysis. The Battelle failure analysis revealed a low-cycle fatigue failure. The failure was caused principally by a combination of: (1) the presence of a zone in the stem surface that consisted of abnormal microstructure, intergranular attack, and low hardness, (2) abnormally high axial tensile loads, and (3) the stress-concentration effects of sharp fillets at the point of failure. A copy of this failure analysis will be provided for Terry Steam Turbine Company to review and identify any possible design or manufacture deficiencies.

General Electric Service Information Letter 352 identifies improper balance chamber adjustment as a possible cause of valve internals damage. The forces associated with too low a balance chamber pressure would be abnormally high, as indicated by the Battelle failure analysis, and would cause rapid opening of the valve. The plant has performed adjustment of the balance chamber in accordance with Service Information Letter 352. The valve now operates in a smooth manner. Further information on balance chamber adjustment and long term corrective actions is contained in LER 84-012-00.

James A. FitzPatrick
Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093
315 342-3840



Corbin A. McNeill, Jr.
Resident Manager

June 1, 1984
JAFP 84-0555

Document Control Desk
United States Regulatory Commission
Washington, DC 20555

REFERENCE: DOCKET NO. 50-333
LICENSEE EVENT REPORT: 83-049/03X-1

Dear Sir:

We have enclosed the referenced Licensee Event Report in accordance with Regulatory Guide 1.16.

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 'Corbin A. McNeill, Jr.'.

CORBIN A. McNEILL, JR.
RESIDENT MANAGER

CAM:RTL:nan
Enclosure

CC: USNRC, Region I (1)
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NRC Resident Inspector
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LER/OR File

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