

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) JAMES A. FITZPATRICK NUCLEAR POWER PLANT										DOCKET NUMBER (2) 0 5 0 0 C 3 3 3					PAGE (3) 1 OF 0 2		
TITLE (4) REACTOR SCRAM DURING MAIN TURBINE TEST																	
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)				
0 2	1 5	8 5	8 5	0 0 6	0 0 0	0 3	1 2	8 5					0 5 0 0 0				
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)															
N		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)			
POWER LEVEL (10)		20.406(a)(1)(i)				50.38(a)(1)				50.73(a)(2)(v)				73.71(a)			
0 1 6 1 0		20.406(a)(1)(ii)				50.38(a)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)			
20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(vii)(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										TELEPHONE NUMBER							
William Fernandez, Operations Superintendent										3 1 5 3 4 2 - 3 8 4 0							
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																	
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS							
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR			
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO							

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

While performing an infrequent test on the main turbine electrohydraulic control power load unbalance circuit during shutdown for refueling, a turbine trip and reactor scram occurred. Investigation of the trip, revealed that the instrument root valve for the pressure transmitter which provides the power input to the unbalance circuit was closed. When power was reduced to perform the test, the transmitter could not equalize the lower actual pressure. When the test was performed with the erroneous high pressure indication, a load unbalance was sensed which resulted in a turbine trip and scram.

After the trip, the plant continued its shutdown to the cold condition for refueling. Long term corrective action includes a modification to the trip circuitry and the inclusion of valve lineups for those infrequently performed balance of plant tests which could directly result in reactor scrams.

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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 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		01	016	01	01	02	OF 02

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

While conducting an infrequently performed test on the main turbine electrohydraulic control power load unbalance circuit, a turbine trip and reactor scram resulted.

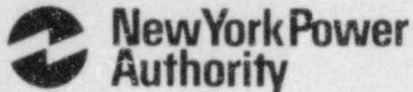
The plant had recently reduced power to 60% to perform the test, as part of the shutdown sequence to enter a refueling outage.

The unbalance circuit is a main turbine protective function against a rapid load reject. The circuit is actuated when a nominal 40% mismatch occurs at a rapid rate between generator load and turbine power (sensed by a pressure transmitter on the cold reheat pipe to moisture separator reheaters). The rate signal is a separate relay which "seals in" when actuated. When performing the test, the actual unbalance circuit trip is inhibited; however, the unbalance and rate sensitive relays are actuated. Upon completion of the test, assuming the power/load unbalance is < 40%, the rate relay will clear and the circuit will be restored. After the reactor scram investigation of the incident revealed that the cold reheat pressure transmitter root valve was shut. Therefore, when power was reduced, the pressure transmitter did not reflect actual turbine power but reflected a full power condition. When the unbalance load test was performed and the rate relay "sealed in", upon recovery, the unbalance circuit saw a 40% unbalance which resulted in a turbine trip and scram.

The primary cause of the scram was the misposition of a balance of plant instrument valve for a circuit which is tested infrequently. The corrective actions include:

- a) Modification to the unbalance circuit to provide operator indication of circuit failure or erroneous indication while performing the test and
- b) A review will be made to clearly identify those balance of plant tests which are infrequently performed and could directly result in a reactor scram. Valve lineups which are required to ensure proper testing will be identified and placed in a formal procedure by September 1, 1985.

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



Harold A. Glovier
Resident Manager

March 12, 1985
JAFF-85-0239

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

REFERENCE: DOCKET NO. 50-333 Licensee Event Report: 85-006-00

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. William Fernandez at (315) 342-3840, Extension 300.

A handwritten signature in dark ink, appearing to read 'H. A. Glovier', written over the printed name.

H. A. GLOVIER

HAG:WF:dmh

Enclosure

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

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