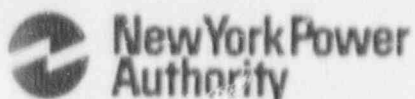


James A. FitzPatrick  
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William Fernandez II  
Resident Manager

January 28, 1991  
JAFP-91-0075

United States Nuclear Regulatory Commission  
Document Control Desk  
Mail Station P1-137  
Washington, D.C. 20555

SUBJECT: DOCKET NO. 50-333  
LICENSEE EVENT REPORT: 90-028-00  
Partial Isolation of Reactor  
Building Ventilation

Dear Sir:

This Licensee Event Report is submitted in accordance with  
10 CFR 50.73(a)(2)(iv).

Questions concerning this report may be addressed to  
Mr. Hamilton Fish at (315) 349-6013.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'W. Fernandez II'.

WILLIAM FERNANDEZ

WF:HCF:lar

Enclosure

cc: USNRC, Region I  
USNRC Resident Inspector  
INPO Records Center  
American Nuclear Insurers

*Cont No P229764419*

*FE22*  
*11*



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (if more space is required, use additional NRC Form 305A's) (17)

EIIS Codes are in [ ]

Description

The plant was operating at full power on December 27, 1990. A work request had been issued for routine preventive maintenance to grease the sample pump 17P-36B motor bearings for the reactor building exhaust ventilation exhaust [VA] radiation monitor B [IL]. Removal of the sample pump from service stops the air flow through the monitor and makes it inoperable. To maintain the isolation logic for the reactor building ventilation system in an operable condition, it is necessary to fail the inoperable monitor downscale.

The Instrument and Control (I&C) Department was requested to turn down then shut off the detector high voltage for the radiation monitor. Using a portion of an instrument surveillance test (ISP-18), "Reactor Building Exhaust Monitor Instrument Calibration", the I&C technician began by measuring and recording as-found detector high voltage. When the I&C technician touched the volt meter probe to the monitor test jack, the monitor readout display spiked high and the reactor building ventilation exhaust system B side isolated at 0830. All equipment functioned in accordance with design. In addition to the isolation of the B side reactor building ventilation system, the B side primary containment atmosphere sampling system [BB] isolated and the B standby gas treatment system [BH] started. The systems were restored to service at 0835.

Cause

The cause of the isolation was a voltage spike in the detector circuit of the radiation monitor. The spike occurred upon contact of the volt meter probe with the high voltage test jack. Radiation monitor circuits are traditionally sensitive to noise spikes during electronic maintenance and monitoring. No problems were found with either the volt meter or the radiation monitor during subsequent checks.

Discussion

During investigation of this ESF actuation, two issues were reviewed in detail:

- o The first was the benefit of inhibiting the trip logic prior to removing the detector high voltage. This requires lifting leads due to the absence of installed switches. The plant personnel concluded that the potential for isolation or circuit miswiring during this evolution was on the same order as that of isolation from the detector high voltage reduction evolution. Thus, the current method of removing the radiation monitor from service will be continued.

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

EXT. If more space is required, use additional NRC Form 3054's (17)

- o The second was the appropriateness of using the calibration procedure, ISP-18, for removing the radiation monitor from service for preventive maintenance of the sample pump. Although the procedure can be referenced and portions of it would provide adequate guidance, it was determined that it was more desirable to have the steps covering radiation monitor removal from service written into the maintenance procedure for sample pump maintenance. This would remove the need to redevelop the procedure each time a PM was performed.

Analysis

Isolation of the reactor building ventilation system by the reactor building exhaust ventilation radiation monitor is reportable under the provisions of 10 CFR 50.73(a)(2)(iv) as an activation of an Engineered Safety Feature [JE]. There were no system or equipment failures. The reactor building ventilation system isolation was performed in accordance with design. The isolation was reset within five minutes. The redundant monitoring system remained operable. There was no potential for adverse safety consequences from this event.

Corrective Action

1. The maintenance procedure for lubrication of sample pumps (MP-101.04) will be revised to include specific steps for removal and return to service of the associated radiation monitors. Included in this revision will be statements warning of the potential for isolations as voltage measurements are being performed.
2. A misplaced step in ISP-18 will be relocated correctly (found during review of incident).