

PERRY NUCLEAR POWER PLANT

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Donald C. Shelton
SENIOR VICE PRESIDENT
NUCLEAR

February 5, 1996
PY-CEI/NRR-2019L

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

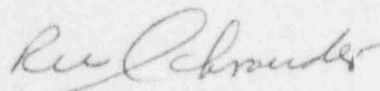
Perry Nuclear Power Plant
Docket No. 50-440
Inoperable Loose-Part Detection System Instrumentation - Special Report

Gentlemen:

In accordance with the provisions of Perry Nuclear Power Plant Technical Specifications 3.3.7.8 and 6.9.2, the attached Special Report is being submitted to notify the NRC of inoperable Loose-Part Detection System Instrumentation.

If you have questions or require additional information, please contact Mr. James D. Kloosterman, Manager - Regulatory Affairs at (216) 280-5833.

Very truly yours,


for Donald C. Shelton

CSO:tah

Attachment

cc: NRC Region III
NRC Resident Inspector Office
NRC Project Manager

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Operating Companies
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SPECIAL REPORT

INOPERABLE LOOSE PARTS
DETECTION SYSTEM INSTRUMENTATION

On December 28, 1995, in accordance with Technical Specification 3.3.7.8 (Loose-Part Detection System), six channels of the Vibration and Loose Parts Monitoring (V&LPM) system were declared inoperable because the 18 month channel calibration surveillance frequency had passed. The action for this specification requires submittal of a Special Report when more than one channel has been inoperable for more than 30 days, which occurred on January 27, 1996.

Affected V&LPM channels are as follows:

| <u>Channel</u> | <u>Description</u> |
|----------------|---|
| 2 | 1" instrumentation tubing, elevation (el.) 635' azimuth (az.) 165° (upper plenum) |
| 3 | Feedwater line el. 646' az. 90° (upper plenum) |
| 9 | Control Rod Drive (CRD) housing, coordinates (coord.) 30-59 az. 0° (lower plenum) |
| 10 | CRD housing, coord. 02-31 az. 270° (lower plenum) |
| 11 | CRD housing, coord. 30-03 az. 180° (lower plenum) |
| 12 | CRD housing, coord. 58-31 az. 90° (lower plenum) |

These six channels remained functional from the time of inoperability until the reactor was shut down on January 27, 1996. No malfunction of equipment has taken place. Daily channel checks and monthly channel functional testing continued during the period as required by Technical Specification 3.3.7.8. The Technical Specification action statement was met.

The channel calibration surveillance requires use of a calibrated impact tool within 3 feet of each sensor location which in turn requires access to the sensor locations inside Drywell. As a result, the instrumentation can only be accessed when the plant is shut down. Due to the extended duration of the fourth refueling outage in 1994, the 18 month surveillance frequency could not be met prior to the start of the fifth refueling outage. These circumstances were discussed in a letter to the NRC dated March 24, 1995 (PY-CEI/NRR-1890L). Calibration surveillance testing will be performed during the fifth refueling outage which began on January 27, 1996. Successful completion of this testing will return the affected channels of the V&LPM to operable status in accordance with Technical Specifications.

This system is designed to continuously monitor the Nuclear Boiler for any indication of loose parts in the Nuclear Boiler system. Eight individual channels monitor the reactor vessel components with sensors physically mounted near natural collection areas. Each channel consists of a detector, preamplifier, and signal processing electronics which input to an audible speaker, a dB meter, control room annunciator, loose parts events analysis computer and a laser printer.