



PERRY NUCLEAR POWER PLANT

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VICE PRESIDENT - NUCLEAR

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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Perry Nuclear Power Plant
Docket No. 50-440
Revision of Alert Level for Loose
Part Detection System Instrumentation

Gentlemen:

Attached is notification of a revision to the Alert Level for two instruments in the Loose Part Detection System. This report is being submitted in accordance with the criteria of Regulatory Guide 1.133, "Loose-Part Detection Program for the Primary System of Light-Water-Cooled Reactors."

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

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Robert A. Stratman', written over a faint, illegible typed name.

RAS:DAH:sc

Attachment

cc: NRC Project Manager
NRC Resident Office
NRC Region III

030672

ADDI /

Revision of Alert Level for Loose
Part Detection System Instrumentation

This report is being submitted in accordance with the criteria provided in Regulatory Guide 1.133, "Loose-Part Detection Program for the Primary System of Light-Water-Cooled Reactors," Section C.3.a which requires the details of revisions to alert levels to be submitted within 60 days.

During the current refueling outage, the alarm setpoints for channels 7 and 8 of the Vibration and Loose Part Monitoring (V&LPM) system have been changed from 0.5 ft-lb to a value of 20% above the background noise. Channels 7 & 8 monitor the Reactor Recirculation Pump Discharge Risers A & B, respectively. As documented in the Special Report dated July 13, 1993, these channels have a history of frequent spurious false alarms that have been caused by high background noise. An evaluation of the background noise has been performed which determined that the high level of noise is attributable to one or more of the following sources:

- o High flow rates in the piping
- o Piping resonance (evidenced by long ringdown times experienced during impact calibrations)
- o Flow induced noise through specific positioning of the recirculation system flow control valves

Regulatory Guide 1.133 requires that the Loose Parts Detection system contain a minimum of two sensors which are located at the reactor vessel upper and lower plenums. Perry still meets this criteria with four (4) instruments in the upper plenum area and four (4) instruments in the lower plenum which are set at 0.5 ft-lb. Although Channels 7 and 8 provide monitoring in excess of the criteria in Regulatory Guide 1.133, Perry plans to maintain these sensors to detect a loose part passing through a recirculation pump and flow control valve. Such a loose part could impact on the wall of the discharge riser and be detected by these sensors.

In addition to the setpoint changes, the Updated Safety Analysis Report is being updated to reflect these changes. These changes have been evaluated in accordance with 10CFR50.59 and determined not to involve an unreviewed safety question. With these changes, Perry maintains its conformance with Regulatory Guide 1.133.