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SUBJECT: Special Rept: on 881208, inoperability of seismic monitoring instrumentation .

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January 16, 1989

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
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RE: Docket No. 50-410  
SPECIAL REPORT

Gentlemen:

In accordance with the Nine Mile Point Unit 2 (NMP2) Technical Specification 3.3.7.2, Action Statement a., we are submitting the following Special Report concerning the inoperability of the Seismic Monitoring Instrumentation (Specifically - the Triaxial Response-Spectrum Recorder, Primary Containment Residual Heat Removal Piping Penetration Elevation 294'-6").

**EVENT DESCRIPTION**

On December 8, 1988 at 1311 hours with the reactor in cold shutdown (Operational Condition 4), reactor coolant at approximately 106 degrees Fahrenheit and atmospheric pressure, the Triaxial Response Spectrum Recorder (2ERS-RSR3B) was declared inoperable. It was found inoperable during the performance of procedure N2-ISP-ERS-R104 (Operating Cycle Calibration of Seismic Monitoring Response Spectrum Recorders Instrument Channels). The vertical (V), East/West Horizontal (E/W), and North/South Horizontal (N/S) permanent record plates were found to have indications of seismic activity.

**CAUSE OF THE EVENT**

The cause of the seismic indications on the record plates is unknown. The triaxial time-history accelerographs do not indicate a seismic event at Nine Mile Point 2. Thus, the indications on the record plates are assumed to have been caused by a local event of short duration in the vicinity of the Residual Heat Removal piping penetration 9c.

**ACTIONS TAKEN**

A Problem Report (PR) was written on December 8, 1988 for the indication on the permanent record plates. The Problem Report was written to have Niagara Mohawk (NMPC) Engineering perform an in depth analysis of this installation and consider relocating 2ERS-RSR3B. The Problem Report's Description stated that: Background vibration on the record plates is causing false recordings.

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PDR ADOLK 05000410  
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Page 2  
SPECIAL REPORT  
NMP44025

NMPC Engineering has determined that the prudent course of action is to place new V, E/W, N/S record plates in 2ERS-RSR3B and to have Instrument and Control (I&C) technicians periodically monitor them. In this way, the source of the vibration can be determined.

Thus, new V, E/W and N/S record plates will be placed in 2ERS-RSR3B, and it will be declared operable as soon as the PR is resolved. A surveillance will be performed on 2ERS-RSR3B in 3 months and in 6 months by I&C technicians who will remove and examine these record plates. If the V, E/W, or N/S record plates show any indication the following will be done: 1) The record plate or plates will be replaced. 2) A continuous monitor will be placed on 2ERS-RSR3B to establish a cause and effect relationship between the 2ERS-RSR3B indication and a local event. The surveillance interval will be started as soon as new V, E/W, N/S record plates can be obtained and installed. The surveillance will come to an end at the 6 month surveillance interval if no indication is found.

Sincerely,



J. L. Willis  
General Superintendent  
Nuclear Generation

JLW/AD/cjm  
(1505u)

xc: Regional Administrator, Region 1  
W. A. Cook, Resident Inspector



1