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 WILLIS, J.L. Niagara Mohawk Power Corp.
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SUBJECT: Special rept: on 890829, inoperability of seismic monitoring instrumentation.

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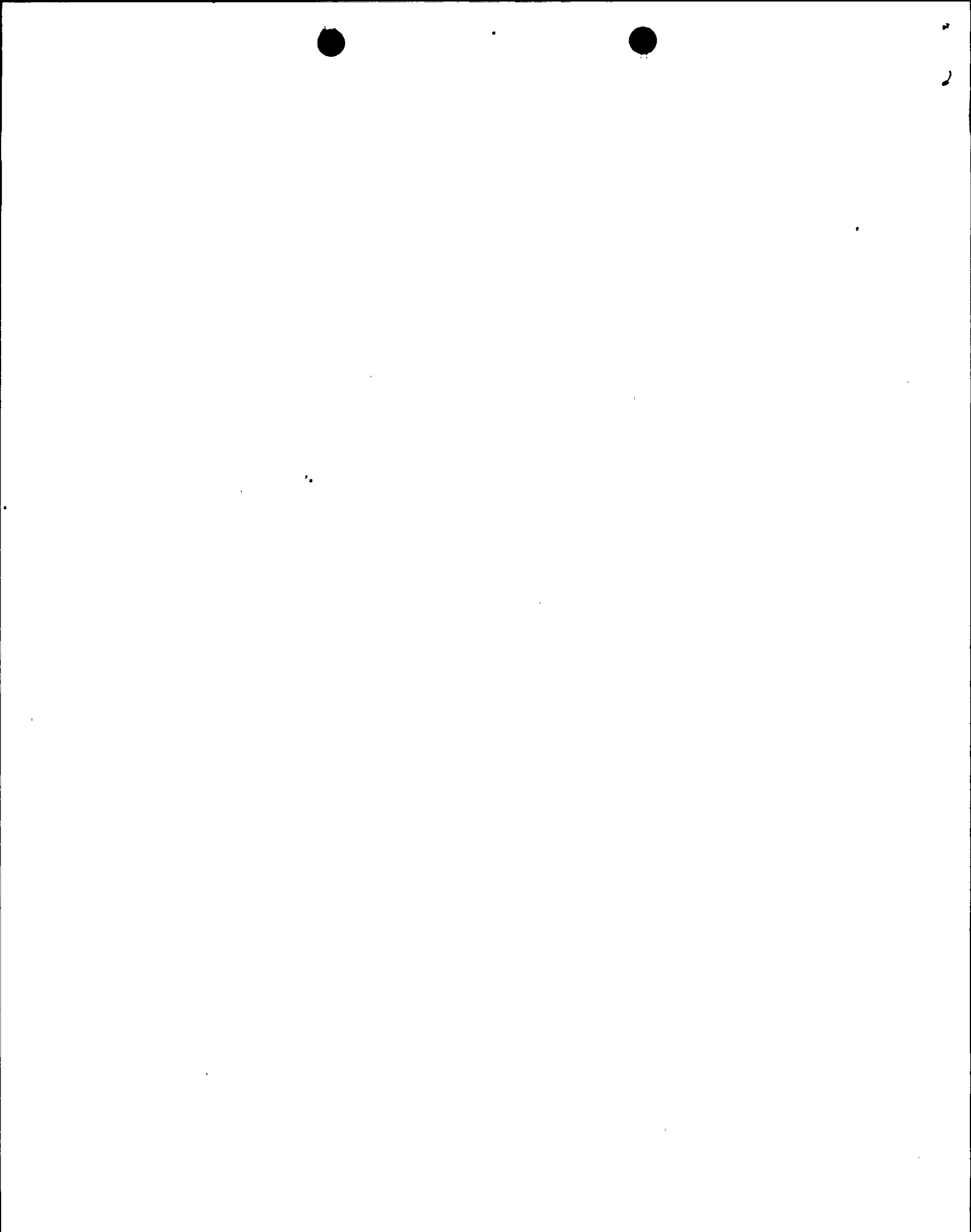
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October 10 , 1989

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

RE: Docket No. 50-410
SPECIAL REPORT

Gentlemen:

In accordance with Nine Mile Point Unit 2 (NMP2) Technical Specification (TS) 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 August 28, 1989 at 1020 hours, with the reactor mode switch in "RUN", 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 East/West Horizontal (E/W), and North/South Horizontal (N/S) permanent record plates were found to have indications that were determined not to be a result of seismic activities. Additionally, certain sensor/accelerometers (16 sensors are located within each E/W and N/S Triaxial Response Spectrum Recorder) failed to meet calibration requirements.

Failure to return the monitors to an operable status within 30 days requires submission of this Special Report of the U.S. Nuclear Regulatory Commission within 10 days as specified in TS 3.3.7.2 ACTION Statement a.

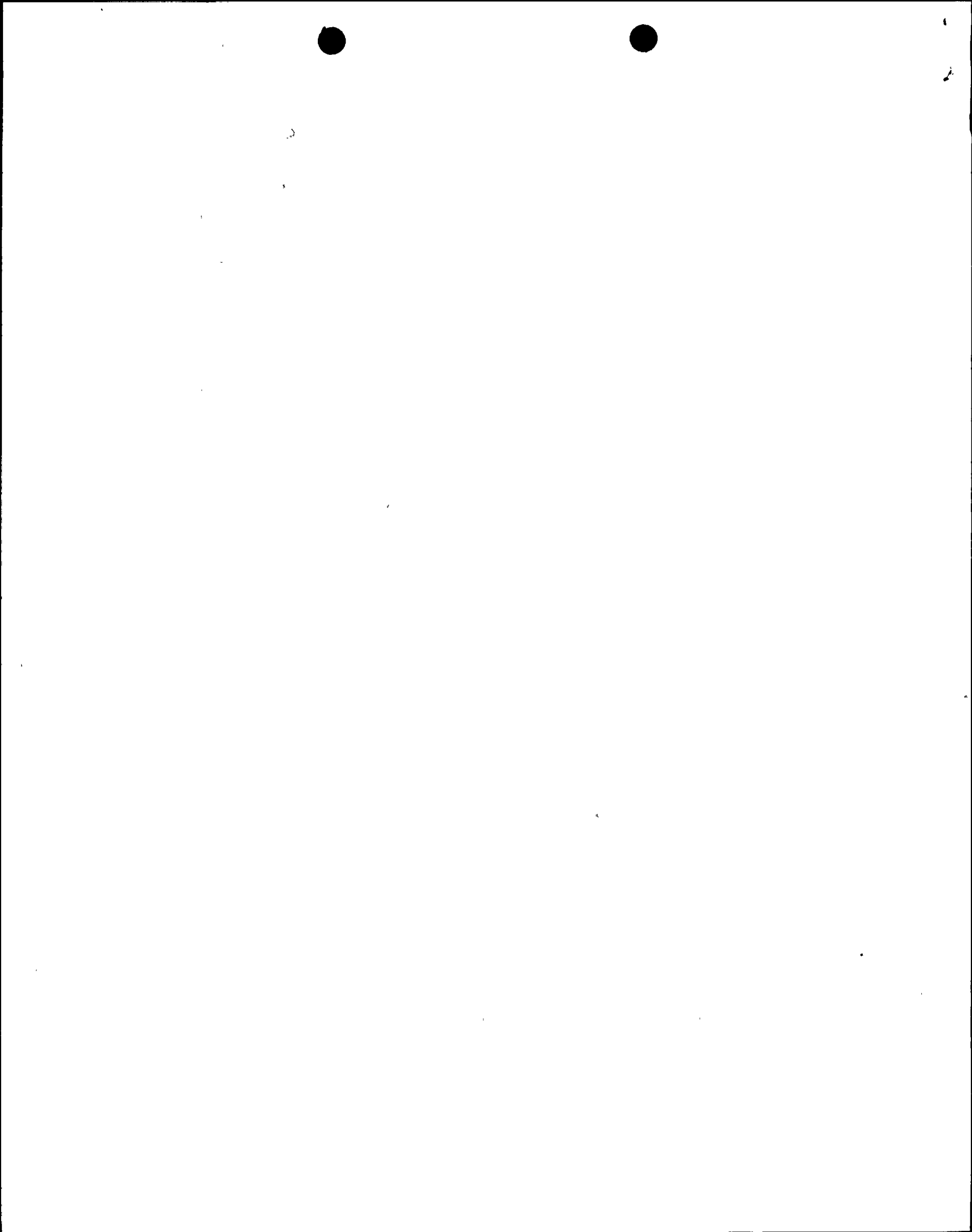
CAUSE OF THE EVENT

The immediate cause of the failure to restore the seismic monitors to operable status within 30 days was the inability to successfully complete calibration procedure N2-ISP-ERS-R104. Symmetry test accuracies of 5% required by procedure could not be achieved. Also, frequency test checks performed on certain accelerometers/sensors were found to be damaging to these sensors.

A Special Report was issued (copy attached) on January 16, 1989 documenting that recorder 2ERS-RSR3B had been declared inoperable due to indications of seismic activities being found on permanent record plates, yet

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no evidence of an event existed. It was determined that background vibration was causing false recordings.

ACTIONS TAKEN

Immediate corrective action included contacting equipment vendor, Engdahl Enterprises, to discuss resolution of; (1) inability of NMPC Instrument and Controls Department to meet vendor manual calibration requirements for the Triaxial Response Spectrum Recorder (2ERS-RSR3B); and (2) the damaging of certain sensor/accelerometers during surveillance frequency checks as outlined in vendor manual.

Engdahl Enterprises has provided revised vendor manual frequency calibration data which omit frequency checks for certain sensors which could be susceptible to damage. Additionally, the vendor manual symmetry test data for the seismic monitoring recorders has been revised to change accuracies from 5% to 8%.

A Problem Report (PR) #08835 has been written recommending vendor manual changes be made to include new vendor specifications.

Corrective actions outlined in the January 16, 1989 Special Report detailed steps that have been taken to monitor background vibrations and their effects on seismic monitor (2ERS-RSR3B). New permanent record plates were installed and surveillances of these have been completed. Based on these results, a new installation location for this monitor will be provided by NMPC Engineering. A temporary surveillance vibration monitoring program will be initiated to measure background vibration at this new location. If acceptable low level readings are observed, a Modification Request will be initiated to permanently relocate seismic vibration monitor (2ERS-RSR3B) to this location. A Technical Specification change will then be submitted to the U.S. Nuclear Regulatory Commission prior to completion of the first refueling outage to change Table 3.3.7.2-1 to reflect this new location. This seismic monitor will remain inoperable until the above actions have been completed.

Sincerely,



J. L. Willis
General Superintendent
Nuclear Generation

JLW/GB/mjv
(1002V)

Attachment

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

