

# PHILADELPHIA ELECTRIC COMPANY

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(215) 841-4000

June 13, 1985

Docket No. 50-352

License No. NPF-27

Dr. Thomas E. Murley, Administrator  
Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

SUBJECT: Special Reporting Requirement for  
Inoperable Seismic Monitoring at  
Limerick Generating Station

REFERENCE: Technical Specification 3.3.7.2 and 6.9.2

Dear Dr. Murley:

This special report is being submitted pursuant to the requirements of Technical Specifications 3.3.7.2 and 6.9.2 which state:

3.3.7.2 The seismic monitoring instrumentation shown in Table 3.3.7.2-1\* shall be OPERABLE.

APPLICABILITY: At all times.

ACTION:

- a. With one or more of the above required seismic monitoring instruments inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the instrument(s) to OPERABLE status.

## SPECIAL REPORTS

6.9.2 Special reports shall be submitted to the Regional Administrator of the Regional Office of the NRC within the time period specified for each report.

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DESCRIPTION OF EVENT:

On May 1, 1985, with the unit in cold shutdown, the surveillance test for the Triaxial Response Spectrum Analyzer (Model No. 505N1 MRAD Corp., TRSA) was performed. The TRSA analyzes data and provides acceleration values for a range of frequencies (0-33.5 HZ). The ST for the TRSA revealed that acceptable limits for the specific acceleration input of a negative 0.05g could not be met; however, all other acceleration inputs were within acceptable limits.

CAUSE OF EVENT:

The specific cause of failure in the TRSA is undetermined. The investigation is continuing.

CONSEQUENCES OF EVENT:

The operators are alerted to a seismic event by annunciators in the control room which receive signals from the operable components of the seismic monitoring system. The TRSA is not required to be operable for the operators to receive annunciation of a seismic event.

The TRSA is used to analyze magnetic tape data collected at various plant locations by independent triaxial accelerometers. The TRSA is utilized to analyze data following a seismic event and provides evaluation of gravitational acceleration with respect to vibrational frequency. With the TRSA inoperable, the data could be sent off-site for analysis by another TRSA.

Since the operators would have received indication in the control room of a seismic event and the data of such an event could have been analyzed in a timely manner off-site the safety consequences of this condition are considered minimal.

CORRECTIVE ACTION:

A field representative from the manufacturer of the TRSA is scheduled to arrive on-site on June 12, 1985 to address this problem and effect repairs.

A follow-up report detailing the exact cause and corrective action will be submitted by July 15, 1985.

Dr. Thomas E. Murley

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Should you require additional information, please do not  
hesitate to contact us.

Very truly yours,

A handwritten signature in dark ink, appearing to read "W. T. Ullrich". The signature is fluid and cursive, with the first name "W. T." and last name "Ullrich" clearly distinguishable.

W. T. Ullrich  
Superintendent  
Nuclear Generation Division

cc: LGS Resident Site Inspector  
See Attached Service List