

TS 6.9.2

July 21, 2008

U.S. Nuclear Regulatory Commission
Attn.: Document Control Desk
Washington, DC 20555-0001

Limerick Generating Station, Units 1 and 2
Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352 and 50-353

Subject: Special Report - Seismic Monitoring Instrumentation Inoperability

This Special Report is being submitted pursuant to the requirements of Limerick Generating Station (LGS), Unit 1 and Unit 2 Updated Final Safety Analysis Report (UFSAR) section 3.7.4.5, Technical Specifications 6.9.2, and Technical Requirements Manual (TRM) 3.3.7.2. TRM 3.3.7.2 Seismic Monitoring Instrumentation action "a" states that with one or more of the seismic monitoring instruments inoperable for more than 30 days, a Special Report shall be prepared and submitted to the Nuclear Regulatory Commission pursuant to Specification 6.9.2 of the Technical Specifications within the next ten days outlining the cause of the malfunction and the plans for restoring the instrument(s) to operable status.

On Wednesday June 11, 2008, both units were operating at full power with functional testing of the seismic monitoring instrumentation system in progress. During the test the system computer failed to operate as expected and the system was declared inoperable at 1101 hours. The system computer performs the function of the man-machine interface and the response spectrum analyzer.

The Seismic Monitoring System consists of two systems. One system is located in the main Control Room (MCR). The MCR Seismic Monitor has 5 tri-axial time-history accelerometer arrays located at various plant locations and elevations, 1 response spectrum analyzer (computer) and 5 digital recorders. If the Limerick Generating Station were to experience a seismic event, appropriate actions would be taken in accordance with station procedure SE-5. This procedure includes guidance on compensatory actions to be taken when the seismic monitoring instrumentation is out of service.

The second system is a stand-alone system located at the Spray Pond Pump House. The Spray Pond Seismic Monitor is a self-contained system with its own sensor array not associated with the MCR Seismic Monitor. The Spray Pond Seismic Monitor remains operable and is not affected by the loss of the MCR response spectrum analyzer.

Cause of the malfunction:

An investigation determined that the cause of the system failure was a degraded computer. Repairs have been ongoing.

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Plans for restoring the instrument to operable status:

The seismic monitor computer is being sent back to the vendor for repair. It is expected that the repair, installation and testing will be completed by the end of September 2008.

There are no commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink that reads "Christopher H. Mudrick for CHMudrick". The signature is written in a cursive style.

Christopher H. Mudrick
Vice President – Limerick Generating Station
Exelon Generation Company, LLC

cc: S. J. Collins, Administrator, Region I, USNRC
E. M. DiPaolo, USNRC Senior Resident Inspector, LGS

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