



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

P.O. BOX 97 ■ PERRY, OHIO 44081 ■ TELEPHONE (216) 259-3737 ■ ADDRESS-10 CENTER ROAD

*Serving The Best Location in the Nation*  
PERRY NUCLEAR POWER PLANT

Al Kaplan

VICE PRESIDENT  
NUCLEAR GROUP

August 26, 1988  
PY-CEI/NRR-0905 L

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

Perry Nuclear Power Plant  
Docket Nos. 50-440; 50-441  
Seventh Quarterly  
Seismic Monitoring Report

Gentlemen:

Enclosed for your information is the Seventh Quarterly Seismic Monitoring Report for the CEI operated Micro-net, which is monitoring an area in the vicinity of two waste injection wells located about 3 miles south of the PNPP site. This report provides data and event analysis for the time period between April 1, 1988 and June 30, 1988.

### Monitoring Results Within Network Configuration

During this quarter there was no seismic activity recorded in the corridor, the primary area of interest. The absence of micro seismic activity during the spring quarter was also observed in 1986. These seasonal quiescence periods will be evaluated for their relationship with operation of the wells. Analysis of seismic events occurrence and concurrent injection well operating data continues looking for a possible correlation.

Although there exists microseismicity in the vicinity of the injection wells, these events are not considered to be associated with the January 31, 1986 Leroy earthquake which occurred 8 miles south of the wells.

### Monitoring Results Outside Network Configuration

Two events, outside the network aperture of study, were recorded offshore in the lake west of the plant and were estimated to be magnitudes MC = 2.7 and 1.4. No seismic alarms were recorded in the plant resulting from these small events as they were distant from the plant.

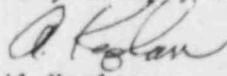
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This report will continue to be submitted on a quarterly basis. The next report will cover the period between July 1, 1988 and September 30, 1988.

Very truly yours,

  
Al Kaplan  
Vice President  
Nuclear Group

AK:njc

Enclosure

cc: T. Colburn  
K. Connaughton  
Leon Reiter