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 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: "Quarterly Data Rept Seismic Monitoring Program, Oct-Dec 1983."

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Carolina Power & Light Company

SERIAL: NLS-84-023

JAN 23 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NO. 1
DOCKET NO. 50-400
SEISMIC MONITORING PROGRAM

Dear Mr. Denton:

Carolina Power & Light Company hereby submits the twentieth quarterly seismic report for the Shearon Harris Nuclear Power Plant (SHNPP) site. This report includes the data collected from October 1, 1983 through December 31, 1983 by the seismic monitoring network installed at the SHNPP site.

Yours very truly,

S. R. Zimmerman
Manager

Nuclear Licensing Section

PS/pgp (9321PSA)

cc: Mr. B. C. Buckley (NRC)
Mr. G. F. Maxwell (NRC-SHNPP)
Mr. J. P. O'Reilly (NRC-RII)

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QUARTERLY DATA REPORT
SHNPP SEISMIC MONITORING PROGRAM
OCTOBER 1, 1983 - DECEMBER 31, 1983

Carolina Power & Light Company (CP&L) has completed another quarter of operation of its seismic monitoring program at the Shearon Harris Nuclear Power Plant site near New Hill, North Carolina. During this period a total of 127 cultural events were recorded with an S-P of less than 5 seconds. No local earthquakes were detected.

Of these 127 events, 31 were confirmed as being explosions by responsible companies or agencies. The remaining 96 events displayed the signature and arrival pattern typical of previously identified cultural events and none occurred at night or on a weekend or holiday.

