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RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation

SUBJECT: Submits seismic monitoring program fourth quarterly rept covering Oct-Dec 1979.162 cultural events w/S-P of less than few seconds recorded.150 confirmed as explosions by responsible companies or agencies.

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Carolina Power & Light Company

January 23, 1980

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

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NOS. 1, 2, 3, AND 4
DOCKET NOS. 50-400, 50-401, 50-402, AND 50-403
SEISMIC MONITORING PROGRAM

Dear Mr. Denton:

Carolina Power & Light Company is hereby providing by attachment the fourth quarterly report of the Shearon Harris Nuclear Power Plant (SHNPP) Seismic Monitoring Program. This report includes data covering the period October 1, 1979 through December 31, 1979.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

SDF/jcb

Attachment

B001 SE 1/1

411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

8001290346

QUARTERLY DATA REPORT
SHNPP SEISMIC MONITORING PROGRAM
OCTOBER 1, 1979 - DECEMBER 31, 1979

Carolina Power & Light Company 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 162 cultural events were recorded with an S-P of less than 5 seconds. No local earthquakes were detected.

Of these 162 events, 150 were confirmed as being explosions by the responsible companies or agencies. The remaining 12 events displayed the signature and arrival pattern of previously identified cultural events and all of them occurred during daylight hours. Only one of these events was recorded on a weekend or holiday:

Date	Day	GMT at Sta. 4	S-P at Sta. 4	Probable Source
11-12-79	Veteran's Day	21:30:23.0	3.6	Garner Quarry

The signature and arrival pattern of this event are identical to 6 other events recorded during this quarter that were confirmed as being explosions from the Garner Quarry.