

QUARTERLY DATA REPORT
SHNPP SEISMIC MONITORING PROGRAM
OCTOBER 1, 1980 - DECEMBER 31, 1980

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 63 cultural events were recorded with an S-P of less than 5 seconds. No local earthquakes were detected.

Of these 63 events, 54 were confirmed as being explosions by the responsible companies or agencies. The remaining 9 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:

<u>Date</u>	<u>Day</u>	<u>.GMT at Sta. 4</u>	<u>S-P at Sta. 4</u>	<u>Probable Source</u>
10-11-80	Saturday	18:27:10.5	3.2	Highway Construction

This event occurred approximately 27 kilometers northeast of the plant site in the vicinity of a four-lane highway that is currently under construction. Many construction blasts have been recorded from this area in the past that were later confirmed as being explosions by the responsible contractor.