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SUBJECT: Forwards repts re seismic activity in Lake Keowee & Lake Jocassee areas during June & Jul 1986, per 791029 request. Util will suppl permanent network in order to achieve more accurate date.

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January 28, 1987

U.S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
June-July 1986 Seismic Activity

Gentlemen:

In accordance with a Staff request dated October 29, 1979 the attached information is provided concerning seismic activity in the Lake Keowee - Lake Jocassee area during June and July 1986.

Attachment 1 provides a report prepared by the University of South Carolina, Department of Geology. Additional stations in the Lake Keowee area are recommended to more precisely locate earthquake epicenters and depth of earthquakes.

Attachment 2 provides a report prepared by Law Environmental Services confirming that the present network cannot locate seismic events with sufficient accuracy to draw conclusions without using additional local instruments to supplement the permanent network.

Duke has reviewed the subject reports with University of South Carolina and Law Environmental Services and will supplement the permanent network in order to achieve more accurate data. A new permanent instrument will be added in the northwestern part of Lake Jocassee to provide coverage of the Lake Jocassee area. In addition to using the local portable instruments after main shock events, one of the present permanent instruments is being relocated to the Lake Keowee area in the vicinity of recent seismic activity. The location of permanent instruments has been coordinated with the University of South Carolina and Law Environmental Services.

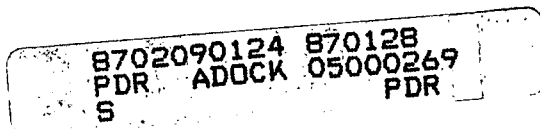
Attachment 3 provides a typical seismogram for both June and July 1986 events.

Very truly yours,

Hal B. Tucker

Hal B. Tucker

PJN/112/jgm



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January 28, 1987
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xc: w/o seismogram

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