

FEBRUARY 2 1978

MEMORANDUM FOR: Files (Docket Nos. 50-269, 50-270 and 50-287)

FROM: Don Neighbors, Project Manager, Operating Reactors
Branch #1

SUBJECT: RECENT SEISMIC ACTIVITY IN THE OCONEE NUCLEAR STATION
VICINITY

On January 3, 1978, Duke Power Company (DPC) informed NRC that seismic events had occurred in the Oconee - Jocassee Dam vicinity on three separate days which exceed a magnitude of 2.0, which is the threshold of reporting established by our letter dated May 20, 1977. A "no. of events" threshold of 100 per week was also established by that letter.

On the morning of January 6, 1978, DPC provided additional data which is shown below:

<u>Date</u>	<u>Number of Events</u>	<u>Magnitude of largest event</u>
December 29, 1977	2	very low
December 30, 1977	1	1.5
December 31, 1977	28	2.2
January 1, 1978	16	2.0
January 2, 1978	160	1.8
January 3, 1978	180	2.2
January 4, 1978	109	1.7
*January 5, 1978	94	1.7
**January 6, 1978	209	2.0
**January 7, 1978	179	2.0
**January 8, 1978	440	-
***January 9, 1978	9	0.1

The seismic activity reported above was recorded on portable micro-earthquake recorders which were moved to the general area of the activity after being picked up on the Jocassee Dam seismic network. The area in which the activity is occurring is near the Stamp Creek Church about 3-5 miles west of the Oconee Nuclear Station and about 7 miles south of Jocassee Dam. In addition to the events reported above, DPC stated that several events were felt in the area about 10:30 am on January 6, 1978, but no further data was available. No events were felt at the Oconee Nuclear Station.

*Provided on afternoon of January 6, 1978

**Provided on January 10, 1978

***Provided on January 11, 1978

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The activity in the Stamp Creek Church area does not appear to be related to the Jocassee Lake or Dam.

DPC will provide a followup letter in about a week to 10 days summarizing these seismic events and providing an evaluation of the data.

Original signed by

Don Neighbors, Project Manager
Operating Reactors Branch #1
Division of Operating Reactors

cc: Local PDR
NRC PDR

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