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 FACIL:50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287
 AUTH.NAME AUTHOR AFFILIATION
 TUCKER,H.B. Duke Power Co.
 RECIP.NAME RECIPIENT AFFILIATION
 DENTON,H.R. Office of Nuclear Reactor Regulation, Director
 STOLZ,J.F. Licensing Branch 4

SUBJECT: Forwards info re 820902 seismic event near Jocassee Hydro Station, per NRC 791029 request, Event magnitude was 2.57. Reproduction of seismograph for station BG3 encl.

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NOTES:AEOD/Ornstein:1cy. 05000269
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October 26, 1982

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

Attention: Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

In accordance with a Staff request of October 29, 1979 the attached information is provided concerning the September 2, 1982 seismic event near the Jocassee Hydro Station. This event had an estimated magnitude of 2.57 and was reported via telephone to our Project Manager, Mr. P. C. Wagner.

Very truly yours,

Hal B Tucker by WAH

Hal B. Tucker

JFN/php
Attachment

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Attachment 1
Seismic Event General Information

Date: September 2, 1982

Time: 5:52 p.m. Eastern Daylight Time

Estimated Magnitude: 2.57

Location: Latitude $34^{\circ} 58.50' N$
Longitude $82^{\circ} 53.29' W$

Depth: 4.7 Kilometers (approximate)

In addition to the above information (obtained through the University of South Carolina), there are three accelerometers at Jocassee hydrostation which are designed to trip during a seismic event of approximately 3.0 magnitude and thus serve as strong motion sensors. These sensors are located as follow: a) one on top of the dam; b) one in the basement of the powerhouse; and c) one in the spillway. The strong motion sensor located on the top of Jocassee Dam was tripped the same day as the earthquake. The data were taken from the sensor and were sent to Kinematics in California for analysis. The results of this analysis showed that the strong motion sensor was tripped two hours after the seismic event and thus could not have been set off by the event. It is felt that the instrument was probably set off by some unrelated phenomena such as a large truck rumbling over the dam on the highway (the sensor is located near the highway).

Attachment 2

Earthquake Intensity Witnesses

- 1) Mrs. W. W. Barton and daughter, of Sunset, South Carolina, which is approximately 7 miles east of Jocassee, did not hear or feel anything.
- 2) Mr. E. H. Gladden, Jocassee Plant Superintendent residing in Pickens, South Carolina, which is approximately 16 miles east-southeast of Jocassee, did not hear or feel anything.
- 3) Mr. Sammy Freeman, residing approximately 4 miles south of Jocassee, heard a "boom", but is not sure whether he felt it or not.
- 4) Mr. C. E. McSwain, Assistant Jocassee Plant Superintendent residing in Salem, South Carolina, which is approximately 6 miles south of Jocassee, heard and felt the earth tremor--sharpe and quick with slight rattling of dishes.
- 5) Mr. Al Langhaus, residing approximately 1 mile west of Jocassee, heard a loud "rumble" and felt the tremor. His hammer, which was lying on the edge of a shelf, fell off and his dishes rattled.

Attachment 3

Reproduction of Seismograph
Station BG3

September 2, 1982

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