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50-269

William P. Gammill, Assistant Director for Site Technology, SSEA  
THRU: J. C. Stepp, Chief, Geology and Seismology Branch, SSEA

SEISMIC EVENTS NEAR OCONEE PLANT

Please reference January 15, 1976 memorandum for background. As per your request I called Dr. Pradeep Talwani on February 4, 1975 to discuss any new information that he may have acquired since the conversation I had with him on January 14, 1976.

He indicated that two events had been recorded since that time.

- . On January 13, 1976 a felt earthquake of magnitude 2.5 was recorded.
- . On January 16, 1976 an earthquake of magnitude 2.1 was recorded. He stated that this was probably an aftershock of the January 13th event.

Dr. Talwani indicated that the epicenters grouped into three clusters, one south of the lake, one in the lake, and one north of the lake, and that the trend of this alignment would orient N10-15°E to NE-SW. He also stated that such a trend passes slightly to the west of the dam.

He also indicated that he had several strong motion instruments installed on the dam and they tripped during the last events. He has not analyzed the data from these instruments as yet.

He also described the purposes of his study as being research in the area of earthquake prediction. He stated that he believes they predicted one of the January events.

Dr. Talwani mentioned that he had discussed the geology of the Lake Jocassee area with Dr. Hatcher of Clemson University and that Dr. Hatcher had stated that he does not know of any faults in that specific area.

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On February 5, 1976, Gary Zech, Project Manager for Oconee 1, 2, 3 indicated that Duke Power would brief the staff with regard to these seismic events although they request that the staff specify those items that they would like to have addressed.

R. E. Jackson, Geologist  
Geology and Seismology Branch  
Division of Site Safety  
and Environmental Analysis

Attachment:  
January 15, 1976 memorandum

cc: H. Denton  
G. Zech  
R. Jackson  
L. Hulman

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DOCKET FILES (50-287)

OFFICE	SSEA:GSB	SSEA:GSB			
SURNAME	<i>R. E. Jackson</i>	<i>J. C. Stepp</i>			
DATE	2/6/76	2/10/76			