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HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

August 31, 1982

Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

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USNRC REGION II  
ATLANTA, GEORGIA

Subject: Oconee Nuclear Station  
Technical Specification 6.6.2.2 Report  
Anomalous Radiological Environmental Sample Report  
Docket Nos. 50-269, -270, -287/6

Dear Sir:

In accordance with the requirements of Oconee Nuclear Station Technical Specification 6.6.2.2.d, this report is submitted describing a condition in which measured levels of radioactivity exceeded the control level by more than 50 times (Location 000.4).

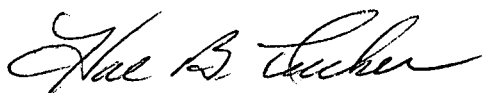
On August 26, 1982, analytical results of bottom sediment samples collected on August 10, 1982 were reviewed. A summary of pertinent analytical results is given below:

<u>Sample Location</u>	<u>Cs-137 Activity (pCi/kg-dry)</u>
000.5 - Lake Keowee (Control)	< 5.22 E1
000.4 - Lake Hartwell, Near Liquid Effluent Release Point	6.44 E3

The expected buildup of activity in the bottom sediment near the liquid effluent release point (Location 000.4) was estimated from NRC Regulatory Guide 1.109, page 1.109-14. Using the liquid radioactive effluent data for the first six months of 1982 an expected activity of 3.26 E4 pCi/kg was calculated for Cs-137. The observed activity of 6.44 E3 pCi/kg at Location 000.4 was well below the expected activity. The activities measured at Location 005.2 and Location 006.2, downstream of Location 000.4, were well within the control limits.

Since the measured Cs-137 concentration is well below the Cs-137 concentration calculated by the model, it may be concluded that the health and safety of the public were not affected.

Very truly yours,

  
Hal B. Tucker

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