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 RECIP. NAME RECIPIENT AFFILIATION
 O'REILLY, J.P. Region 2, Atlanta, Office of the Director

SUBJECT: R0: on 790828, analytical results of rain & settled dust samples collected for 790605-0702. Level of radioactivity exceeded control level by greater than 10 times. Results caused by sample quantity being smaller than control sample.

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WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

August 31, 1979

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373-4083

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

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

Dear Mr. O'Reilly:

Pursuant to the requirements of Oconee Nuclear Station Technical Specification 6.6.2.2.c, this report is submitted describing a condition in which a measured level of radioactivity exceeded the control level by greater than 10 times.

On August 28, 1979, analytical results of rain and settled dust samples collected in June, 1979, were reviewed. Given below is a summary of the pertinent analytical results.

<u>Sample Location</u>	<u>Date Collected</u>	<u>Co-58 Activity</u> (pCi/m ²)
000.1 0.3 Mi SSE on Hwy. 183	6/5 - 7/2/79	1.73E3 ± 1.0E3
006 Clemson Meteorology Plot (Control)	6/5 - 7/2/79	<7.48E1

A review of rain and settled dust samples collected in May and in July show no detectable Co-58 activity at location 000.1. The one-sigma error associated with the activity is large (58% of the total activity), which suggests that the Co-58 activity was barely detectable above background. The sample quantity at location 000.1 was much smaller than the control sample (0.0164m² for location 000.1 compared to 0.0324m² for location 006), contributing to the anomalous result. Therefore, it is considered that this result was not due to site releases, and the health and safety of the public were not affected.

Very truly yours,

William O. Parker, Jr.
William O. Parker, Jr.

SRL/sch



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