

DUKE POWER COMPANY

Central File

POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

*50-269
270
287*

May 16, 1977

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

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

Dear Mr. Moseley:

Pursuant to the requirements of Oconee Nuclear Station Technical Specification 6.6.2.2.c and 6.6.2.2.d, this report is submitted describing a condition in which measured radiation levels exceeded the control level by greater than ten times and exceeded the control level by greater than four times but less than ten times.

On May 9, 1977, analytical results of thermoluminescent dosimeters in the field from December 21, 1976 to March 22, 1977 were received. A summary of the pertinent results of the radiation levels is as follows:

<u>Sample Location</u>	<u>Total mR</u>	<u>mR/hr</u>
008 Liberty, S. C. (Control)	27	0.013
000.17 West Fence of Restricted Area	152	0.070
000.18 West Fence of Restricted Area	1200	0.556

Sample locations 000.17 and 000.18 are located well within the exclusion area on the west fence, which isolates the restricted area from the unrestricted area. Location 000.17 is located on the restricted area fence near the exit for radioactive shipments and is influenced by these shipments. The current radiation level at 000.17 is 0.03 to 0.04 mR/hr. Location 000.18 is 60 feet from a borated water storage tank (BWST) which, according to unit operation, causes varying radiation levels at location 000.18. Current radiation levels at the BWST were 2mR/hr at contact and at location 000.18 were 0.45 mR/hr. During refueling operations associated with Oconee Unit 1, the area adjacent to the BWST will be monitored, and roped off as necessary, with appropriate warning signs due to the increased level of radiation from the BWST.

The radiation levels at locations 000.17 and 000.18 represent exposures for twenty-four hours per day continuing through the quarter. Consequently, even though the radiation levels at locations 000.17 and 000.18 exceed

Misc # B

Mr. Norman C. Moseley

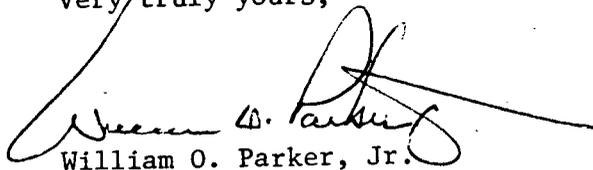
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control levels, these radiation levels do not relate to the exposures of individuals since the area adjacent to the west restricted area is occupied for short time periods only as individuals pass the point going to and from a parking lot. Therefore, the actual exposures of individuals are well within the radiation levels permitted in unrestricted areas by 10CFR20.105.

Thus, it is concluded that the health and safety of the employees or public has not been adversely affected by these conditions.

Very truly yours,



William O. Parker, Jr.

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