

DUKE POWER COMPANY REGION II

POWER BUILDING

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

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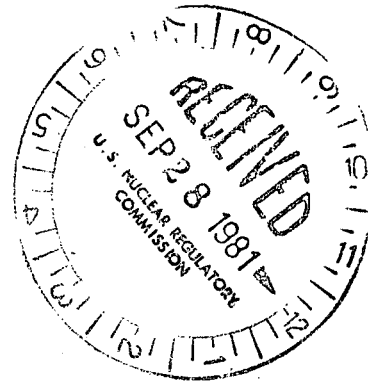
WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

September 14, 1981

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

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



Dear Mr. O'Reilly:

Pursuant to the requirements of 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 September 9, 1981, analytical results of air particulate samples collected during the week of August 18, 1981 were reviewed. The pertinent analytical results are summarized below:

<u>Sample Location</u>	<u>Date</u>	<u>Nb-95 Activity (pCi/m³)</u>
006 - Clemson (Control) 10 Miles SSE	08/11-08/18/81	<1.86 E-3
009 - Six Mile 5 Miles E	08/11-08/18/81	2.32 E-2

The dose model from Regulatory Guide 1.109 was used to calculate an annual whole body dose which would result if an adult were to inhale a yearly average of 9.24 E-2 pCi/m^3 Niobium 95 from Location 009 (9.24 E-2 pCi/m^3 is the average measured Niobium 95 at Location 009 for the first 7 months of 1981). The annual dose to the whole body through inhalation would be an additional 3.7 E-4 mR/yr .

The anomalous condition was created by a negative value being recorded for the control location (activity measured was less than normal background). The "less than value" calculated for the control location is not considered valid when using "negative" values. A more valid method for calculating "less than values" for activities less than background is being investigated.

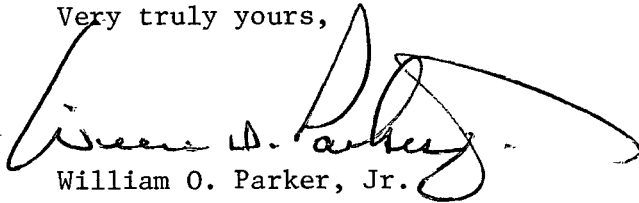
All other sample locations were well within the 10 times limit for Niobium 95. The additional dose of 3.7 E-4 mR/yr of Niobium 95 is not considered significant. Therefore, the health and safety of the public were not affected.

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Mr. James P. O'Reilly, Director
September 14, 1981
Page 2

Very truly yours,

A handwritten signature in cursive script, appearing to read "William O. Parker, Jr.", with a large, sweeping flourish extending to the right.

William O. Parker, Jr.

JLJ/php