

AUG 4 1977

Docket Nos. 50-269

50-270

and 50-287

Duke Power Company

ATTN: Mr. William O. Parker, Jr.

Vice President - Steam Production

Post Office Box 2178

422 South Church Street

Charlotte, North Carolina 28242

Gentlemen:

By letter dated April 25, 1977, you reported that the Oconee Nuclear Station liquid radioactive releases had exceeded one-half the annual design objective releases in a calendar quarter. The cause of the releases was an inadvertent release of liquid radioactivity from Oconee Unit 1 to the Keowee River in February 1977. In addition, you had another release in May 1977, although of much less magnitude than the first.

In a meeting on June 1, 1977, at the Oconee site, we discussed with you methods of controlling radioactivity in the Oconee Nuclear Station secondary systems. You described your administrative procedural control to contain radioactivity in the secondary side, and we examined with you the turbine building drainage system, the condensate polisher resin disposal system, the waste water collection basins, and the oil collection basin with respect to detecting, containing, and controlling radioactive materials. We noted that a radiation monitor had been installed to monitor the turbine building sump.

As a result of our review of these releases we have concluded that additional monitoring and procedural controls are necessary to keep radioactive releases as low as reasonable achievable in accordance with Appendix I to 10 CFR 50. Therefore, we request that you propose revisions to the Oconee design and its Technical Specifications which will:

1. include the installed turbine building sump monitor with an alarm in the control room,
2. add a composite water sampler at the outfall of the oil collection basin with weekly gamma spectra analysis and quarterly Sr-89, Sr-90 analysis, and

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3. add requirements for two independent checks on valve alignment for discharges of radioactive spent resin from the secondary water clean-up system to the receiving tanks to prevent an inadvertent release of highly contaminated resins following steam generator leaks to the waste water collection basin.

These changes have been discussed with you. It is requested that you respond within 45 days of receipt of this letter.

Sincerely,

*JSI*  
A. Schwencer, Chief  
Operating Reactors Branch #1  
Division of Operating Reactors

cc: Mr. William L. Porter  
Duke Power Company  
Post Office Box 2178  
422 South Church Street  
Charlotte, North Carolina 28242

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