

Docket Nos. 50-269, 50-270,  
and 50-287

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Mr. J. W. Hampton  
Vice President, Oconee Site  
Duke Power Company  
P. O. Box 1439  
Seneca, South Carolina 29679

Dear Mr. Hampton:

SUBJECT: REPAIR OF STEAM GENERATOR EXPLOSIVE PLUGS BY USE OF ORIFICE PLUGS  
OCONEE NUCLEAR STATION, UNITS 1, 2, AND 3 (TACS M81536/M81537/M81538)

In a letter dated September 3, 1991, Duke Power Company requested an interpretation of Oconee Technical Specification 4.17.5.f relating to the use of orifice plugs in meeting the requirement to remove tubes from service by plugging in the case of tubes which contain potentially defective explosive plugs. The NRC staff has identified the need for additional information relating to this request. Your response to the following two items is requested within 15 days from receipt of this letter.

1. Your request states that the orifice plug would limit primary-to-secondary leakage to about 0.2 gpm per tube, assuming the tube becomes fully ruptured and the explosive plug fails. Please provide the calculations supporting the value of 0.2 gpm, including orifice dimensions, assumed pressures upstream and downstream of the orifice, and the orifice coefficient used in the flow rate computation.
2. Part of the safety consideration determination for this issue is that "The orifice plugs limit total primary-to-secondary leakage to a small fraction of that considered in the FSAR MSLB analysis, which evaluates rupture of 1, 3, and 10 SG tubes." Please provide the calculations supporting this determination.

This requirement affects fewer than ten respondents, and therefore, it is not subject to Office of Management and Budget review under P.L. 96-511.

If you have questions regarding this request, contact me at (301) 492-1495.

Sincerely,

/s/

Leonard A. Wiens, Project Manager  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

*AA*  
*[Signature]*

cc: See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

November 21, 1991

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and 50-287

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Vice President, Oconee Site  
Duke Power Company  
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Sincerely,

A handwritten signature in black ink, appearing to read "Leonard A. Wiens".

Leonard A. Wiens, Project Manager  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

cc: See next page

Mr. J. W. Hampton  
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Oconee Nuclear Station

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