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SUBJECT: Forwards Rev 0 to Calculation 32-1245901-00, "Oconee-2 S/G-A Weld WG58-1 Flaw Evaluation."

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DUKE POWER

May 3, 1996

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-270
Oconee Steam Generator Weld 2-SGA-WG58-1

On April 30, 1996, the ultrasonic examination of the Oconee Unit 2A Steam Generator upper head-to-tubesheet weld, 2-SGA-WG58-1, identified a subsurface flaw. A review of the flaw indicated that the flaw did not meet the acceptance criteria contained in the 1989 ASME Section XI code. Once the flaw was determined to be outside the ASME Section XI acceptance criteria, Framatome Technologies was contacted to perform a fracture mechanics analysis of the flaw.

On May 1, 1996, Duke Power provided information to the NRC about the ultrasonic examination of the Steam Generator weld. On May 2, 1996, after reviewing the information provided by Duke Power, the NRC notified Duke that in their opinion the fracture mechanics results needed to be approved by the NRC prior to the restart of Oconee Unit 2. The current expected criticality date for the Oconee Unit 2 restart is May 5, 1996.

In accordance with the NRC's request, the fracture mechanics analysis (Attachment 1) is being submitted to the NRC. In addition, the ultrasonic testing information for the Steam Generator weld is included as Attachment 2. Based on the information contained in the fracture mechanics analysis, Duke Power considers the Steam Generator weld to be acceptable for the life of the plant based on ASME Section XI rules for evaluation by analysis.

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If there are any questions about this information, please
contact Michael Bailey at (864)859-7793.

Very Truly Yours,

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ATTACHMENT 1

FRAMATOME TECHNOLOGIES
FRACTURE MECHANICS ANALYSIS