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 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post 851125
 STOLZ, J. F. PWR Project Directorate 6

SUBJECT: Forwards revised B&W rept 32-1164054, "Oconee-1 Upper Shell
 Flaw Evaluation" & volumetric examination evaluation rept
 86-019, rev 1 for Oconee-1 reactor vessel flange to shell
 weld 1RPV-WR19 per to 861113 conference call.

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See "86 Reports"

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December 22, 1986

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. John F. Stolz, Project Director
PWR Project Directorate No. 6

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

Dear Sir:

On November 13, 1986 a conference call was held with members of your Staff and my Staff concerning the Oconee Unit 1 reactor vessel flange to shell & weld indications. As a result of this discussion please find attached the following documents:

Attachment 1

B&W Document No. 32-1164054-01 entitled "Oconee-1 Upper Shell Flaw Evaluation".

This document has been revised to include the following:

- (1) New LEFM calculations for combined indications - numbers 3/4 and 18/19.
- (2) Postulated Service Induced Growth calculations and code adjusted stresses.
- (3) Justification for unanalyzed transients.
- (4) Stress components and method of determination for LEFM.

Calculations presented in this document provide the basis for acceptance of code rejectable indications as identified under the "Preliminary Disposition" section of the Volumetric Examination Evaluation Report; Evaluation Nos. 86-019 and 86-019, Rev. 1.

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Mr. Harold R. Denton, Director
December 22, 1986
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Attachment 2

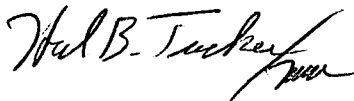
Volumetric Examination Evaluation Report, Evaluation No. 86-019, Rev. 1 for
Oconee-1 Reactor Vessel Flange to Shell Weld No. 1RPV-WR19.

This revision is a supplement to the original evaluation report No. 86-019. This supplement included evaluation of indication numbers 3/4 combines and indication numbers 18/19 combines. These combined indications represent the worst case conditions, (bounding all of the other recorded indications) and have been shown to be acceptable by Linear Elastic Fracture Mechanics Analysis included in the Item 1 engineering document discussed above. Characteristic dimensions for these combined indications are included and discussed in Attachment A. B&W Drawing No. 128704E9 is included as Attachment B and is the basis for the calculations presented in Attachment A.

This Revision 1 supplement and the original evaluation report No. 86-019 combined provide the basis for the acceptable final disposition of all reportable indications.

If there are any additional questions regarding this issued please do not hesitate to contact us.

Very truly yours,



Hal B. Tucker

PFG/41/slb

Attachment

xc: Dr. J. Nelson Grace, Regional Administrator
U. S. Nuclear Regulatory Commission
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Atlanta, Georgia 30323

Mr. J. C. Bryant
NRC Resident Inspector
Oconee Nuclear Station

Ms. Helen Pastis
Office of Nuclear Reactor Regulation
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