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

SUBJECT: Forwards BAW-1895, "Pressurized Thermal Shock Evaluations in Accordance W/10CFR50.61 for B&W Owners Group Reactor Pressure Vessels." Units 1 & 3 will meet pressurized thermal shock criteria beyond proposed OL expiration dates.

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January 23, 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

Attachment: BAW-1895, "Pressurized Thermal Shock  
Evaluations in Accordance With  
10 CFR 50.61 for B&W Owners Group  
Reactor Pressure Vessels", dated  
January, 1986

Dear Sir:

Duke Power Company (Duke), in concert with B&W Owners Group, has performed evaluations to address the requirements of 10 CFR 50.61, Fracture Toughness Requirements for Protection Against Pressurized Thermal Shock Events. The attached report, BAW-1895, provides a generic assessment of all operating 177 FA B&W Owners Group reactor pressure vessels beltline materials and compares the projected values of RT<sub>PTS</sub> with the PTS screening criteria values. The projected values of RT<sub>PTS</sub> for all the materials in the reactor vessel beltline region, summarized in Tables 4-1 through 4-3 of BAW-1895, are below the screening criteria at the expiration date of the operating license of Oconee Nuclear Station Units 1, 2 and 3.

The current expiration date of the Operating Licenses for all three Oconee Units is November 6, 2007 which is based on the Oconee Construction Permit approved on November 6, 1967. By letter dated January 14, 1986, Duke submitted an amendment request to extend the Operating License expiration dates of all the Oconee Units based on the date of issuance of the full power operating license. The proposed expiration dates will be February 6, 2013, October 6, 2013, and July 19, 2014 for Oconee Units 1, 2 and 3, respectively.

As indicated in Table 2-1 of BAW-1895, both Units 1 and 3 will meet the PTS screening criteria well beyond their proposed Operating License expiration dates in 2013 and 2014, respectively. For Oconee Unit 2, however, the screening criteria may be slightly exceeded for the proposed license expiration date.

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PDR ADDOCK 05000269  
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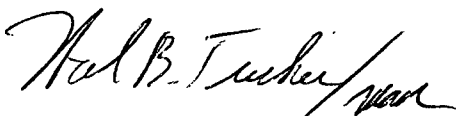
Mr. Harold R. Denton, Director  
January 23, 1986  
Page Two

The calculations summarized in Table 2-1 assume a utilization factor (EPPY/Calendar Year) of 0.80 and no change in future fuel cycles. Based on actual experience at the Oconee Nuclear Station the utilization factor is more close to 0.65. Calculations with a 0.65 utilization factor will certainly extend the PTS limit for Unit 2 further in time.

In support of the amendment request for license extension submitted on January 14, 1986, Duke will perform evaluations to demonstrate that the Oconee Unit 2 projected  $RT_{PTS}$  at the proposed extended license expiration date will not exceed the PTS screening criteria. The results of this evaluation will be submitted by April 15, 1986.

Duke has also evaluated  $RT_{PTS}$  for all Oconee units at the time of submittal of this letter, January 23, 1986, as required by 10 CFR 50.61(b)(1). This evaluation, although not included in BAW-1895, applied the same methodology described in BAW-1895. All of the projected values of  $RT_{PTS}$  at the time of this submittal satisfy the screening criteria. The highest projected  $RT_{PTS}$  values at the time of submittal of this letter are 191 compared to PTS screening criterion of 270 for Unit 1 and 233 and 178 compared to PTS screening criterion of 300 for Units 2 and 3, respectively.

Very truly yours,



Hal B. Tucker

MAH:slb

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Ms. Helen Nicolaras  
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Mr. J. C. Bryant  
NRC Resident Inspector  
Oconee Nuclear Station