



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

JUL 3 1 1995

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In the Matter of the Application of ) Docket No. 50-390  
Tennessee Valley Authority )

WATTS BAR NUCLEAR PLANT (WBN) - RESPONSE TO NRC JULY 11, 1995, REQUEST FOR ADDITIONAL INFORMATION (RAI) REGARDING WCAP-14040, "METHODOLOGY USED TO DEVELOP COLD OVERPRESSURE MITIGATING SYSTEM SETPOINTS AND RCS HEATUP AND COOLDOWN LIMIT CURVES"

This letter provides the requested responses to the questions contained in the NRC letter dated July 11, 1995. The responses specific to Watts Bar documents are contained in Enclosures 1 and 2 to this letter.

The responses to questions on WCAP-14040 were provided to the NRC by Westinghouse Owner's Group (WOG) letter OG-95-61 dated July 18, 1995, prior to the July 20, 1995 meeting. The responses were discussed during the meeting and were found acceptable or were modified as necessary. WCAP-14040, Revision 2, as modified by those agreements, will be forwarded under separate cover by the WOG.

Enclosure 3 contains WCAP-13829, Revision 2, which has been revised consistent with the responses contained in Enclosure 1. Enclosure 4 contains Revision 4 to the Watts Bar Unit 1 Pressure and Temperature Limits Report which has been revised consistent with the responses contained in Enclosure 2. Enclosure 5 contains a proposed change to the Technical Specification on Section 5.9.6. This proposed change is consistent with the recommendation by the NRC during the July 20, 1995, meeting on the Pressure and Temperature Limits Report.

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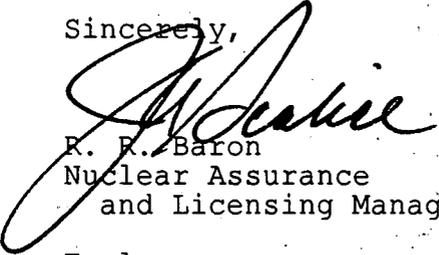
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If you should have any questions, please telephone John Vorees at  
(615) 365-8819.

Sincerely,

  
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Nuclear Assurance  
and Licensing Manager (Acting)

Enclosures

cc (Enclosures):

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Enclosure 1

Additional Information Requested by the NRC Staff for Westinghouse Owners Group, "Heatup and Cooldown Limit Curves for Normal Operation for Watts Bar Unit 1," WCAP-13829, Revision 1.

Comment 1

"The pressure-temperature limits curves in Figures 1 and 2 do not include margins for pressure differences between the wide-range pressure transmitter and the limiting reactor vessel beltline region (stated on page 1). Justify the exclusion of the pressure differences for the heatup and cooldown curves."

Response

The margins for pressure differences between the wide-range pressure transmitter and the limiting vessel region are not included in the pressure-temperature limit curves of Figures 1 and 2 because they are considered separately in developing the LTOP/COMS setpoints. This fact is documented in item "n" on page 3-3 of WCAP-14040, Revision 2.

Comment 2

"On page 2, the staff requests the last sentence be revised to read 'The post-irradiation fracture toughness properties of the reactor vessel beltline material will be obtained directly from the Watts Bar Unit 1 Reactor Vessel Radiation Surveillance Program.'"

Response

As requested, the text on page 2 will be changed from "were obtained" to "will be obtained".

Comment 3

On page 6, the staff requests the first paragraph reference WCAP-14040 directly to clarify the methods in obtaining the pressure-temperature limits.

Response

As requested, a reference to WCAP-14040 will be added to the first paragraph on page 6.

WCAP-13829 will be revised to include the responses to these comments and WCAP-13829, Revision 2, will be forwarded under separate cover.

Enclosure 2

Additional Information Requested by the NRC Staff for Watts Bar Unit 1  
RCS Pressure Temperature Limits Report, Revision 3.

Comment

"On page A-27 in note (c), the margin equation is quoted from Regulatory Guide 1.99, Revision 2, incorrectly. The equation should be multiplied by a factor of two. The values in the table reflect the correct equation. The staff requests TVA to correct the equation."

Response

As requested, the margin equation in note (c) on page A-27 has been multiplied by a factor of two to reflect the correct values reported in the table. Revision 4 of the Watts Bar Unit 1 Pressure Temperature Limits Report is attached.

Enclosure 3

WCAP-13829

Revision 2