

September 14, 2001

Mr. J. A. Scalice
Chief Nuclear Officer and
Executive Vice President
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 1 - REQUEST FOR ADDITIONAL
INFORMATION RE: TRITIUM PRODUCTION PROGRAM INTERFACE ISSUE 3
(TAC NO. MB1884)

Dear Mr. Scalice:

The Nuclear Regulatory Commission staff has reviewed your letter of May 1, 2001, giving information on Watts Bar's Tritium Program. We need additional information to complete our review. I discussed the enclosed Request for Additional Information with Mr. Chardos, Tennessee Valley Authority's Tritium Program Manger, and he agreed to respond to this request by September 21, 2001. Please contact me if you have any questions.

Sincerely,

/RA/

L. Mark Padovan, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-390

Enclosure: Request for Additional
Information

cc w/ enclosure: See next page

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DATE	9/12/01	9/12/01	9/12/01			

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Request for Additional Information

Tritium Production Program Interface Issue 3

Watts Bar Nuclear Plant, Unit 1

Docket No. 50-390

1. Westinghouse's report NDP-00-0344, Section 2.4.4.1, page 2-27, states that Westinghouse conducted detailed thermal/hydraulic evaluations to determine the effects of the tritium-producing burnable absorber rods (TPBARs) in the core. Please provide summarized results of these evaluations.
2. Page 2-27, last paragraph, uses the terms such as "Bounding value," "Bounding axial," and "Generic power." This is very vague. Please give us more specific information and justification for picking the bounding values. Also, what does a generic power distribution look like? Is it flat, cosine, or top skewed?
3. For the comparisons stated in the first paragraph of Section 2.4.4.5, on page 2-28, please provide the results of the comparisons (i.e., plots, sketches, etc.).
4. The second paragraph of Section 2.4.4.5 states that departure from nucleate boiling ratio basis has been met, and that bypass flow limits have been met. Please provide plots and sketches showing how much margin there is for the core with the TPBARs. Has the margin increased or decreased with the inclusion of the TPBARs?
5. The third paragraph of the same Section states that the analyses of the TPBAR component showed that the acceptance criteria have been met. What acceptance criteria are met? Where do you document (tabulate) that all the acceptance criteria are met?

Mr. J. A. Scalice
Tennessee Valley Authority

WATTS BAR NUCLEAR PLANT

cc:

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