

May 12, 1994

Docket Nos. 50-390
and 50-391

Mr. Oliver D. Kingsley, Jr.
President, TVA Nuclear and
Chief Nuclear Officer
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Mr. Kingsley:

SUBJECT: WATTS BAR NUCLEAR PLANT - REQUEST FOR ADDITIONAL INFORMATION
RELATING TO FSAR AMENDMENT 80 (TAC NOS. M88644 AND M88645)

We have completed review of Final Safety Analysis Report Chapter 15, "Accident Analysis," as updated by Amendment 80. Based on our review, we find that Tennessee Valley Authority (TVA) has either made significant changes in Chapter 15, or has not provided adequate reasons for some of the changes. We have delineated our review results in the form of a request for additional information (RAI). We will discuss with your staff, in the next licensing status meeting, an acceptable target date for TVA to respond to this RAI.

This requirement affects nine or fewer respondents and, therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,

Original signed by

Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Request for Additional Information

cc w/enclosure:

See next page

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| NAME | B. Clayton | C. Jackson | P. Tam | M. Caruso | F. Hebdon |
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ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION

WATTS BAR NUCLEAR PLANT FSAR

AMENDMENT 80

CHAPTER 15, ACCIDENT ANALYSIS

1. Please provide the basis for the use of the reactivity insertion rate of 0.6 pcm/sec in Section 15.2.4 on page 15.2-17 of the Uncontrolled Boron Dilution accident and state why it is changed from the previously used value of 2.0 pcm/sec.
2. Please provide the basis for the values used for the flows to each of the four steam generators in Case 1b and 2b of Section 15.2.10 for the Excessive Heat Removal Due To Feedwater System Malfunctions accident (Pages 15.2-29 and 15.2-30).
3. For the large-break LOCA analysis, Table 15.1-2 indicates that the computer code FROTH is used. The staff finds no reference to FROTH in either the TVA submittal or the FSAR chapter 15.4.1. Please describe what the FROTH code is and how it is used in the analysis. Table 15.4-23 of the FSAR lists new, "MINIMUM SAFEGUARDS ECCS FLOW," for the large-break LOCA. Why are these values different from those on Table 8.2 from WCAP-11627, in TVA's March 8, 1993 submittal.

Mr. Oliver D. Kingsley, Jr.
Tennessee Valley Authority

cc:

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WATTS BAR NUCLEAR PLANT

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