



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

July 30, 1993

Docket No. 50-390

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Technical Support
3B Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Dr. Medford:

SUBJECT: WATTS BAR UNIT 1 - HYDROSTATIC TEST COMMITMENT CLARIFICATION
(TAC M86347)

In letters dated April 16 and July 2, 1993, TVA submitted information to clarify an issue in Chapter 14 (as revised by Amendment 69) of the Watts Bar FSAR. In these letters, TVA stated that instead of performing a second complete reactor coolant system (RCS) cold hydrostatic test (CHT) in accordance with American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section III, TVA will perform the required CHT in the piping segments that were not N-stamped and were modified or repaired since the first CHT, which was performed in 1981.

To alleviate concerns that the RCS could have deteriorated during the long delay time from 1981 to the present, TVA committed to perform WBN Surveillance Instruction (SI) 4.0.5.0, "Reactor Coolant System Leakage Test," revised for this one test, to include: the test pressure and temperature requirements of Section XI, Article IWB-5000, Table IWB-5222-1; a 4-hour minimum hold time after attaining the test pressure and temperature conditions for insulated systems, and a 10-minute minimum for non-insulated systems or components. SI 4.0.5.0 identifies the RCS Class 1 boundaries and stipulates that all visual examinations be performed according to the VT-2 requirements in Section XI, and that the quality control inspectors be certified Level II inspectors. SI 4.0.5.0 (revised) will be conducted during the hot functional test (HFT) of the RCS, which demonstrates the RCS's structural integrity and leak tightness before loading the fuel.

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The staff finds TVA's commitment to perform the SI 4.0.5.0 (revised) during the HFT prudent in resolving the concerns, and concludes that the clarification communicated by the April 16 and July 2, 1993, letters acceptable. Please proceed to revise Chapter 14 of the FSAR as proposed. This review was performed by Mr. D. Naujock of the Materials and Chemical Engineering Branch.

Sincerely,

Original signed by

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

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Watts Bar Nuclear Plant

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