



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

January 13, 1995

MEMORANDUM TO: Frederick J. Hebdon, Director  
Project Directorate II-4  
Division of Reactor Project I/II, NRR

FROM: Christopher I. Grimes, Chief  
Technical Specifications Branch  
Division of Project Support, NRR

SUBJECT: WATTS BAR TECHNICAL SPECIFICATIONS -  
UPDATED PROOF AND REVIEW VERSION

Enclosed for transmittal to the applicant is a copy of the updated Proof and Review version of the Technical Specifications (TS) (Attachment 2), TS Bases (Attachment 3) and Technical Requirements Manual (TRM) (Attachment 4) for Watts Bar Unit 1. These documents were developed as a result of numerous meetings between the staff and TVA since issuance of the Proof and Version of the Watts Bar TS on April 2, 1992. OTSB finds the documents to be acceptable except for the items discussed in Attachment 1.

Attachment 1 details those aspect of the Post Proof and Review TS, Bases, and TRM which, the staff finds, do not conform to the NUREG 1431, the Watts Bar FSAR, and/or the staff SER and its supplements. The applicant should be advised of our intent to request certification that the final draft are consistent with the updated FSAR and with the as-built plant. Since a number of these open/unresolved items require changes to the FSAR, the applicant should be advised that the final draft TS will not be issued for certification until the appropriate supporting data and justifications have been submitted for the open/unresolved items for staff review and have been found acceptable. In addition, the "Road Map from the 1985 Draft TS to Proposed Draft TS" submitted in the applicant's August 27, 1992, submittal needs to be updated to reflect changes made to the TS prior to issuance of the final draft. The exception to this is the issue on the Pressure-Temperature Limits Report (item 8 of Attachment 1). The staff has already noted in the October 4, 1993 meeting between NRC and TVA that issuance of the Watts Bar TS (Appendix A to the Operating License) is dependent on a timely review of the Westinghouse Topical Report on Pressure-Temperature Limit Methodology contained in the Vogtle Nuclear Power Plant Pressure-Temperature Limit Report Amendment. Upon receipt of the requested information, a schedule for completion of the TS review including the requested information, a schedule for completion of the TS review including the issuance of the Final Draft TS can be developed.

CONTACT: R. J. Giardina, OTSB/NRR  
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Project Directorate II-4 is responsible for ensuring that Attachments 2 through 4 are placed in the central files and public document room.

Attachments: As stated

cc: P. Tam (w/attachments)  
S. Varga (w/attachment 1 only)

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Watts Bar Technical Specification (TS) Review  
Open Item List

The following items are open/unresolved in the Watts Bar TS:

1. Page 3.0-1 to 3.0-2, LCO 3.0.4; page 3.0-5, SR 3.0.4 and various other pages and TS - TVA needs to implement generic change package BWR-26 which modifies LCO 3.0.4 and SR 3.0.4. TVA also needs to provide a matrix showing which TS are affected by the change and make the appropriate changes to the Actions to those TS.
2. Page 3.3-19 Table 3.3.1-1, items 16 d and f - TVA needs to determine if the values for Allowable Valves and Trip Setpoint are a percentage of "full-power pressure".
3. Page 3.3-45 Table 3.3.3-1 Note (d) - TVA proposes additional exceptions/deviations to the Post Accident Monitoring (PAM) Containment Isolation Valve position indication than is currently allowed by their FSAR and the staff SER. TVA has not provided any justification for this deviation from the staff approved Regulatory Guide 1.97 evaluation of the Watts Bar design.
4. Page 3.3-60, Table 3.3.7-1 Item 2 "Control Room Radiation, Control Room Air Intakes" - The allowable value is designated as [TBD]; a value needs to be provided.
5. Page 3.6-37, SR 3.6.13.4 - TVA proposes an entirely different surveillance requirement (SR) and frequency interval for the Divider Barrier Seal than is currently specified in NUREG 1431. TVA has not provided any supporting data or appropriate justifications for the staff to review to determine the acceptability of this new, and possible generic, SR.
6. Page 3/7-23. LCO 3.7.10 Condition D - TVA proposes an entirely new condition for two Control Room Ventilation System inoperable in MODES 1-4 during a tornado warning. TVA has not provided any justification for this deviation from General Design Criteria (GDC) 2 and 19 for the staff to review to determine the acceptability of this new plant specific condition.
7. Page 3.8-8, SR 3.8.1.7; page 3.8-11, SR 3.8.1.12; page 3.8-13, SR 3.8.1.15; and page 3.8-16, SR 3.8.1.21. TVA proposes to delete the upper voltage and frequency limits on the no-load diesel generator (DG) SRs in accordance with generic change package WOG-36. The staff has not accepted WOG-36 and is pursuing a resolution with the Owner's Groups and Watts Bar.

8. Page 5.0-33 TS 5.9.6 "Reactor Coolant System (RCS) Pressure and Temperature Limits Report (PTLR)". The format and content of the specification conform to NUREG-1431. Specification use is pending approval of the WCAP Topical Report necessary to implement this specification.

The following items are open/unresolved in the Bases to the Watts Bar TS:

9. Page B 3.0-5 and B 3.0-6, LCO 3.0.5; page B 3.0-13 and B 3.0-14, SR 3.0.4; and various other pages and TS - TVA needs to make the appropriate changes to implement the changes made in item 1 above.
10. Page B 3.3-3 LCO 3.3.1 Background Field Transmitters or Sensors - TVA needs to determine if the sentence describing transmitter and sensor operability should read either "when its "as found" calibration data..." or "when its "as found" drift data and "as left" calibration data...".
11. Page B 3.3-63 LCO 3.3.1 References - The brackets around Reference 9 need to be removed or reference deleted due to non-applicability to Watts Bar.
12. Page B 3.3-65 LCO 3.3.2 Background Field Transmitters or Sensors - See item 5 above.
13. Page B 3.3-95 LCO 3.3.2 Applicable Safety Analysis, item 7.b - The description and safety analysis for this function needs to be revised to conform to the Watts Bar design.
14. Page B 3.3-120 LCO 3.3.2. References - The brackets around Reference 10 need to be removed or reference deleted due to non-applicability to Watts Bar.
15. Page B 3.3-130 LCO 3.3.3 LCO Section item 11 - The proposed bases change is dependent on resolution of item 3 above.
16. Page B 3.3-132 LCO 3.3.3 LCO Section item 18-21 - The description and safety analysis for the core exit thermocouples needs to be revised to show how Watts Bar meets the intent of item II.F.2 of NUREG-0737.
17. Page B 3.5-5 LCO 3.5.1 Section - "2000 psig" in the second paragraph of this section should be "1000 psig" to conform to the LCO.
18. Page B 3.5-8 SR 3.5.1.5 - The "2000 psig" in the third line first paragraph should be "1000 psig" to conform to the LCO.
19. Page B 3.6-27 SR 3.6.3.8 - The brackets around the sentence "Bypass leakage is considered part of L<sub>o</sub>" needs to be added or sentence deleted due to non-applicability to Watts Bar.

20. Page B 3.7-13 LCO 3.7.3 Background - TVA needs to justify the deletion of the STS wording", and provide a pressure boundary for the controlled addition of auxiliary feedwater (AFW) to the intact loops," from the end of the second paragraph.
21. Page B 3.7-13 LCO 3.7.3 Background - TVA needs to justify the deletion of the words from the end of the third paragraph: "The AFW injection point is located downstream of the bypass MFIV so that AFW may be supplied to the steam generators following a bypass MFIV or MFRV closure. The piping volume between the check valve and the steam generators must be accounted for in calculating mass and energy releases, and refilled prior to AFW reaching the steam generator following either an SLB or FWLB."
22. Page B 3.7-54 and B 3.7-55 LCO 3.7.10 Action D.1 - The proposed bases addition and changes to the succeeding Actions is dependent on resolution of item 6 above.
23. Page B 3.7-61 SR 3.7.11.1 - The wording in the fifth and sixth lines "main control rom temperature is between 60°F and 104°F" is not justified by the rest of the paragraph. The words should be replaced by the STS words "system has not degraded".

The following items are open/unresolved int he Watts Bar Technical Requirements Manual:

24. Page 3.0-1 and 3.0-2, TR 3.0.4; page 3.0-4, SR 3.0.4 and various other pages and TR(s) - TVA needs to make similar changes and provide the necessary information to implement the changes made in item 1 above.
25. Page 3.7-27 Table 3.7.5-1 items 29 through 34 - TVA needs to determine if an upper area temperature limit is applicable for the DG areas at Watts Bar.
26. Page B 3.0-5 through B 3.0-7, TR 3.0.4; page B 3.0-14 and 3.0-15, TSR 3.0.4; and various other pages and TR(s) - TVA needs to make the appropriate changes to implement the change made in item 24 above.