



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

February 2, 2010

10 CFR 50.36

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Watts Bar Nuclear Plant, Unit 2  
NRC Docket No. 50-391

Subject: **Watts Bar Nuclear Plant (WBN) - Unit 2 - Developmental Revision B of the Technical Specifications (TS), TS Bases, Technical Requirements Manual (TRM), TRM Bases; and Pressure and Temperature Limits Report (PTLR)**

Reference: TVA letter to NRC dated March 4, 2009, "Watts Bar Nuclear Plant (WBN) Unit 2 - Operating License Application Update"

This letter transmits the Developmental Revision B of the WBN Unit 2 TS, TS Bases, TRM, and TRM Bases, reflecting changes made since the March 4, 2009, Developmental Revision A submittal (reference). With the exception of TRM/TRM Bases 3.7.2 discussed below, this submittal provides the final version of the TS, TS Bases, TRM, and TRM Bases required in support of licensing WBN Unit 2.

This letter also submits the WBN Unit 2 Pressure and Temperature Limits Report (PTLR) (WCAP-17035-NP, Revision 2, "Watts Bar Unit 2 Heatup and Cooldown Limit Curves for Normal Operation and PTLR Support Documentation," December 2009). This report provides the methodology and results of the generation of heatup and cooldown pressure-temperature (P-T) limit curves for normal operation of the WBN Unit 2 reactor vessel.

The TS/TRM submittal incorporates changes resulting from TVA's ongoing effort to verify TS/TRM numbers, setpoints, and parameters as part of the construction completion of WBN Unit 2. The submittal also incorporates TSTF-493, Revision 4, "Clarify Application of Setpoint Methodology for LSSS Functions," into Section 3.3 of the TS and TS Bases. Please note that TRM/TRM Bases 3.7.2 (as applicable) will require revision to reflect input from the most recent probable maximum flood evaluation data. The TRM/TRM Bases 3.7.2 revision and the Unit 2 Final Safety Analysis Report Section 2.4, "Hydrologic Engineering," revision will be submitted in March 2010.

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The March 4, 2009, letter delineated how the original marked-up versions of the WBN Unit 2 TS, TS Bases, TRM, and TRM Bases were developed. It also discussed how the Review Matrix provided for the documents was developed. A Review Matrix is provided for the Developmental Revision B documents.

The Developmental Revision B of the TS and TS Bases was compared to the WBN Unit 1 TS and TS Bases through Amendment 82 and Revision 100, respectively.

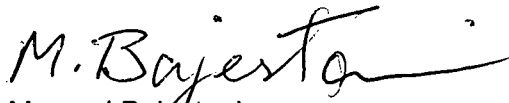
The Developmental Revision B of the TRM and TRM Bases was compared to the WBN Unit 1 TRM and TRM Bases through Revision 45.

The electronic files of the Unit 2 TS, TS Bases, TRM, and TRM Bases; the review matrixes for each; and the PTLR are contained on the enclosed Optical Storage Media (OSM). Enclosure 1 lists the electronic files and the file sizes.

There are no new commitments contained in this letter. If you have any questions, please contact me at (423) 365-2351.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 2nd day of February, 2010.

Respectfully,

  
Masoud Bajestani  
Watts Bar Unit 2 Vice President

Enclosure:

List of Electronic Files

Attachment:

OSM containing electronic files of documents listed above

cc: See Page 3

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Enclosure

cc (w/enclosure):

U. S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303-8931

NRC Resident Inspector Unit 2  
Watts Bar Nuclear Plant  
1260 Nuclear Plant Road  
Spring City, Tennessee 37381

**ENCLOSURE 1**  
**TVA Watts Bar Nuclear Plant Unit 2**  
**Technical Specifications/Technical Requirements Manual/PTLR**  
**List of Files**

File Name	File Size - Bytes
<b>TVA_WBN-2_TS_REVIEW_MATRIX</b>	
001_TVA_WBN-2_TS_MATRIX.pdf	338,272
<b>TVA_WBN-2_TS_Files</b>	
001_TVA_WBN-2_TS_TOC.pdf	133,890
002_TVA_WBN-2_TS_1.0.pdf	181,944
003_TVA_WBN-2_TS_2.0.pdf	70,075
004_TVA_WBN-2_TS_3.0.pdf	71,275
005_TVA_WBN-2_TS_3.1.pdf	512,654
006_TVA_WBN-2_TS_3.2.pdf	187,100
007_TVA_WBN-2_TS_3.3.pdf	345,802
008_TVA_WBN-2_TS_3.4.pdf	697,850
009_TVA_WBN-2_TS_3.5.pdf	200,850
010_TVA_WBN-2_TS_3.6.pdf	735,786
011_TVA_WBN-2_TS_3.7.pdf	250,264
012_TVA_WBN-2_TS_3.8.pdf	232,350
013_TVA_WBN-2_TS_3.9.pdf	393,646
014_TVA_WBN-2_TS_4.0.pdf	260,339
015_TVA_WBN-2_TS_5.0.pdf	151,124
<b>Total</b>	<b>4,424,949</b>
<b>TVA_WBN-2_TS_Bases_Files</b>	
001_TVA_WBN-2_TS_Bases_TOC.pdf	153,341
002_TVA_WBN-2_TS_Bases_2.0.pdf	139,332
003_TVA_WBN-2_TS_Bases_3.0.pdf	92,832
004_TVA_WBN-2_TS_Bases_3.1.pdf	519,903
005_TVA_WBN-2_TS_Bases_3.2.pdf	258,409
006_TVA_WBN-2_TS_Bases_3.3.pdf	521,067

**ENCLOSURE 1**  
**TVA Watts Bar Nuclear Plant Unit 2**  
**Technical Specifications/Technical Requirements Manual/PTLR**  
**List of Files**

File Name	File Size - Bytes
007_TVA_WBN-2_TS_Bases_3.4.pdf	677,584
008_TVA_WBN-2_TS_Bases_3.5.pdf	244,428
009_TVA_WBN-2_TS_Bases_3.6.pdf	672,937
010_TVA_WBN-2_TS_Bases_3.7.pdf	391,695
011_TVA_WBN-2_TS_Bases_3.8.pdf	375,333
012_TVA_WBN-2_TS_Bases_3.9.pdf	457,502
<b>Total</b>	<b>4,351,022</b>
<b>TVA_WBN-2_TRM_REVIEW_MATRIX</b>	
001_TVA_WBN-2_TRM_Review_MATRIX	<b>145,574</b>
<b>TVA_WBN-2_TRM_Files</b>	
001_TVA_WBN-2_TRM_and_TRM_Bases_TOC.pdf	107,900
002_TVA_WBN-2_TRM_1.0.pdf	420,319
003_TVA_WBN-2_TRM_3.0.pdf	69,711
004_TVA_WBN-2_TRM_3.1.pdf	550,821
005_TVA_WBN-2_TRM_3.3.pdf	178,885
006_TVA_WBN-2_TRM_3.4.pdf	320,233
007_TVA_WBN-2_TRM_3.6.pdf	92,292
008_TVA_WBN-2_TRM_3.7.pdf	141,322
009_TVA_WBN-2_TRM_3.8.pdf	122,516
010_TVA_WBN-2_TRM_3.9.pdf	174,925
011_TVA_WBN-2_TRM_5.0.pdf	50,144
<b>Total</b>	<b>2,229,068</b>
<b>TVA_WBN-2_TRM_Bases_Files</b>	
001_TVA_WBN-2_TRM_Bases_3.0.pdf	82,235
002_TVA_WBN-2_TRM_Bases_3.1.pdf	159,847
003_TVA_WBN-2_TRM_Bases_3.3.pdf	188,241
004_TVA_WBN-2_TRM_Bases_3.4.pdf	216,446

**ENCLOSURE 1**  
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**List of Files**

<b>File Name</b>	<b>File Size - Bytes</b>
005_TVA_WBN-2_TRM_Bases_3.6.pdf	104,540
006_TVA_WBN-2_TRM_Bases_3.7.pdf	137,800
007_TVA_WBN-2_TRM_Bases_3.8.pdf	127,477
008_TVA_WBN-2_TRM_Bases_3.9.pdf	186,347
<b>Total</b>	<b>1,202,933</b>
<b>TVA_WBN-2_PTLR</b>	
001_TVA_WBN-2_PTLR.pdf	<b>328,320</b>