



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

August 5, 2010

10 CFR 50.4(b)(6)  
10 CFR 50.34(b)  
10 CFR 2.390(d)(1)

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

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

**Subject: Watts Bar Nuclear Plant (WBN) Unit 2 - Response to Request For Additional Information (RAI) Regarding Licensee's Final Safety Analysis Report Amendment Related To Chapter 8, "Electric Power" (TAC No. ME2731)**

Reference: 1. Letter from NRC to TVA, "Watts Bar Nuclear Plant, Unit 2 - Request for Additional Information Regarding Licensee's Final Safety Analysis Report Amendment Related to Chapter 8, 'Electric Power' (TAC No. ME2731)," dated July 15, 2010 [ML101800156]

This letter transmits WBN Unit 2 Final Safety Analysis (FSAR) drawings to the U. S. Nuclear Regulatory Commission (NRC) as requested in Reference 1.

By letters dated November 24, 2009; December 14, 2009; January 11, 2010; May 7, 2010; and May 17, 2010, the Tennessee Valley Authority submitted FSAR Amendments 95, 96, 97, 98, and 99, respectively. The drawings in the FSAR amendments contained detail that was not readable.

Electronic files for the drawings requested in the RAI (Reference 1) are provided on the enclosed Optical Storage Media (OSM) in a format in which the detail is now readable. Note that optical character recognition (OCR) could not be performed on these files due to their size. Hard copies of the drawings have been provided to the NRC Staff separately from this letter.


There are no new regulatory commitments associated with this submittal. If you have any questions, please contact Bill Crouch at (423) 365-2004.

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MLR

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I declare under penalty of perjury that the foregoing is true and correct. Executed on the 5<sup>th</sup> day of August, 2010.

Sincerely,

  
Masoud Bajestani  
Watts Bar Unit 2 Vice President

Enclosure:

1. List of Files Provided on Enclosed Optical Storage Media (OSM)

cc (Enclosure):

U. S. Nuclear Regulatory Commission  
Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE Suite 1200  
Atlanta, Georgia 30303-1257

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

## ENCLOSURE

### List of Files Provided on Enclosed Optical Storage Media (OSM)

**Tennessee Valley Authority - Watts Bar Nuclear Plant - Unit 2, Docket No. 50-391**

File Name		File Size - Bytes
01 - TVA DWG NO. 1-15E500-1, R31	FSAR FIGURE 8.1-2	415,652
02 - TVA DWG NO. 1-15E500-2, R39	FSAR FIGURE 8.1-2A	518,342
03 - TVA DWG NO. 1-15E500-3, R19	FSAR FIGURE 8.1-2B	178,033
04 - TVA DWG NO. 1-45W700-1, R28	FSAR FIGURE 8.1-3	336,426
05 - TVA DWG NO. 1-75W500, R18	FSAR FIGURE 8.2-1	193,593
06 - TVA DWG NO. 1-45W760-211-8, R14	FSAR FIGURE 8.3-6	307,876
07 - TVA DWG NO. 1-45W760-211-9, R16	FSAR FIGURE 8.3-7	297,600
08 - TVA DWG NO. 1-45W760-211-10, R12	FSAR FIGURE 8.3-8	303,196
09 - TVA DWG NO. 1-45W760-211-11, R13	FSAR FIGURE 8.3-9	246,625
10 - TVA DWG NO. 1-45W760-82-1, R17	FSAR FIGURE 8.3-14B	382,730
11 - TVA DWG NO. 1-45W760-82-1A, R8	FSAR FIGURE 8.3-14C	383,734
12 - TVA DWG NO. 1-45W760-82-1B, R8	FSAR FIGURE 8.3-14D	389,100
13 - TVA DWG NO. 1-45W760-82-1C, R8	FSAR FIGURE 8.3-14E	399,936
14 - TVA DWG NO. 1-45W731, R23	FSAR FIGURE 8.3-15	419,964
15 - TVA DWG NO. 1-45W724-1, R24	FSAR FIGURE 8.3-16	340,113
16 - TVA DWG NO. 1-45W724-2, R24	FSAR FIGURE 8.3-17	335,774
17 - TVA DWG NO. 1-45W724-3, R23	FSAR FIGURE 8.3-18	437,712
18 - TVA DWG NO. 1-45W724-4, R20	FSAR FIGURE 8.3-19	424,094
19 - TVA DWG NO. 1-45W749-1, R58	FSAR FIGURE 8.3-20	440,716
20 - TVA DWG NO. 1-45W749-1A, R37	FSAR FIGURE 8.3-20 SH A	506,795
21 - TVA DWG NO. 1-45W749-2, R54	FSAR FIGURE 8.3-21	453,520
22 - TVA DWG NO. 1-45W749-3, R56	FSAR FIGURE 8.3-22	472,464
23 - TVA DWG NO. 1-45W749-3A, R38	FSAR FIGURE 8.3-22 SH A	467,693

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File Name		File Size - Bytes
24 - TVA DWG NO. 1-45W749-4, R61	FSAR FIGURE 8.3-23	483,582
25 - TVA DWG NO. 1-45W749-4A, R40	FSAR FIGURE 8.3-23A	547,781
26 - TVA DWG NO. 1-45W727, R20	FSAR FIGURE 8.3-24	301,948
27A - TVA DWG NO. 1-45W728-1, R10	FSAR FIGURE 8.3-24A	589,723
27B - TVA DWG NO. 1-45W728-2, R3	FSAR FIGURE 8.3-24B	290,194
27C - TVA DWG NO. 1-45W760-82-20, R6	FSAR FIGURE 8.3-24C	526,046
27D - TVA DWG NO. 1-45W760-82-21, R3	FSAR FIGURE 8.3-24D	350,070
28A - TVA DWG NO. 1-45W760-82-12, R7	FSAR FIGURE 8.3-25A	612,540
28B - TVA DWG NO. 1-45W760-82-2, R17	FSAR FIGURE 8.3-25B	318,564
28C - TVA DWG NO. 1-45W760-82-2A, R7	FSAR FIGURE 8.3-25C	312,852
28D - TVA DWG NO. 1-45W760-82-2B, R8	FSAR FIGURE 8.3-25D	319,736
28E - TVA DWG NO. 1-45W760-82-2C, R8	FSAR FIGURE 8.3-25E	337,619
29A - TVA DWG NO. 1-45W760-82-13, R4	FSAR FIGURE 8.3-26A	589,490
29B - TVA DWG NO. 1-45W760-82-3, R10	FSAR FIGURE 8.3-26B	195,893
29C - TVA DWG NO. 1-45W760-82-3A, R3	FSAR FIGURE 8.3-26C	194,781
29D - TVA DWG NO. 1-45W760-82-3B, R3	FSAR FIGURE 8.3-26D	195,075
29E - TVA DWG NO. 1-45W760-82-3C, R3	FSAR FIGURE 8.3-26E	195,438
30A - TVA DWG NO. 1-45W760-82-14, R9	FSAR FIGURE 8.3-27A	393,647
30B - TVA DWG NO. 1-45W760-82-4, R20	FSAR FIGURE 8.3-27B	284,988
30C - TVA DWG NO. 1-45W760-82-4A, R6	FSAR FIGURE 8.3-27C	292,666
30D - TVA DWG NO. 1-45W760-82-4B, R7	FSAR FIGURE 8.3-27D	290,248
30E - TVA DWG NO. 1-45W760-82-4C, R7	FSAR FIGURE 8.3-27E	291,904
31 - TVA DWG NO. 1-45W760-18-1, R12	FSAR FIGURE 8.3-32	481,518

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File Name		File Size - Bytes
32 - TVA DWG NO. 1-47W845-1, R56	FSAR FIGURE 9.2-1	597,413
33 - TVA DWG NO. 1-47W845-2, R76	FSAR FIGURE 9.2-2	618,326
34 - TVA DWG NO. 1-47W845-3, R23	FSAR FIGURE 9.2-3	383,346
35 - TVA DWG NO. 1-47W845-4, R32	FSAR FIGURE 9.2-4	419,976
36 - TVA DWG NO. 1-47W845-5, R38	FSAR FIGURE 9.2-4A	628,131
37 - TVA DWG NO. 1-47W845-7, R14	FSAR FIGURE 9.2-4B	589,681
38 - TVA DWG NO. 1-47W611-67-1, R8	FSAR FIGURE 9.2-5	199,596
39 - TVA DWG NO. 1-47W611-67-2, R5	FSAR FIGURE 9.2-6	233,822
40 - TVA DWG NO. 1-47W611-67-3, R2	FSAR FIGURE 9.2-7	187,475
41 - TVA DWG NO. 1-47W611-67-4, R5	FSAR FIGURE 9.2-8	221,312
42 - TVA DWG NO. 1-47W611-67-5, R10	FSAR FIGURE 9.2-9	319,432
43 - TVA DWG NO. 1-47W610-67-1, R27	FSAR FIGURE 9.2-10	574,915
44 - TVA DWG NO. 1-47W610-67-1A, R16	FSAR FIGURE 9.2-10 SH A	146,050
45 - TVA DWG NO. 1-47W610-67-2, R15	FSAR FIGURE 9.2-11	709,531
46 - TVA DWG NO. 1-47W610-67-2A, R8	FSAR FIGURE 9.2-11 SH A	712,599
47 - TVA DWG NO. 1-47W610-67-3, R12	FSAR FIGURE 9.2-12	198,253
48 - TVA DWG NO. 1-47W610-67-3A, R7	FSAR FIGURE 9.2-12 SH A	636,291
49 - TVA DWG NO. 1-47W610-67-4, R17	FSAR FIGURE 9.2-13	358,426
50 - TVA DWG NO. 1-47W610-67-5, R14	FSAR FIGURE 9.2-14	332,242
51 - TVA DWG NO. 1-47W610-67-5A, R2	FSAR FIGURE 9.2-14 SH A	268,721
52 - TVA DWG NO. 1-47W859-4, R23	FSAR FIGURE 9.2-16	355,426
53 - TVA DWG NO. 1-47W859-3, R18	FSAR FIGURE 9.2-17	585,672
54 - TVA DWG NO. 1-47W859-2, R36	FSAR FIGURE 9.2-18	490,266

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File Name		File Size - Bytes
55 - TVA DWG NO. 1-47W859-1, R47	FSAR FIGURE 9.2-19	589,184
56 - TVA DWG NO. 1-47W610-70-1, R23	FSAR FIGURE 9.2-20	573,124
57 - TVA DWG NO. 1-47W610-70-2, R29	FSAR FIGURE 9.2-21	468,136
58 - TVA DWG NO. 1-47W610-70-2A, R15	FSAR FIGURE 9.2-21 SH A	693,909
59 - TVA DWG NO. 1-47W610-70-3, R17	FSAR FIGURE 9.2-22	933,019
60 - TVA DWG NO. 1-47W611-70-1, R9	FSAR FIGURE 9.2-23	340,737
61 - TVA DWG NO. 1-47W611-70-2, R11	FSAR FIGURE 9.2-24	329,938
62 - TVA DWG NO. 1-47W611-70-3, R4	FSAR FIGURE 9.2-25	179,103
63 - TVA DWG NO. 1-47W611-70-4, R4	FSAR FIGURE 9.2-25A	262,105
64 - TVA DWG NO. 1-47W610-32-1, R15	FSAR FIGURE 9.3-1	310,766
65 - TVA DWG NO. 1-47W610-32-2, R19	FSAR FIGURE 9.3-2	355,220
66 - TVA DWG NO. 1-47W611-32-1, R5	FSAR FIGURE 9.3-3	199,506
67 - TVA DWG NO. 1-47W611-32-2, R5	FSAR FIGURE 9.3-4	320,362
68 - TVA DWG NO. 1-47W846-2, R37	FSAR FIGURE 9.3-5A	451,580
69 - TVA DWG NO. 1-47W848-1, R24	FSAR FIGURE 9.3-6	587,520
70 - TVA DWG NO. 47W848-10, R22	FSAR FIGURE 9.3-6A	343,622
71 - TVA DWG NO. 1-47W809-1, R59	FSAR FIGURE 9.3-15 SH 1	575,238
72 - TVA DWG NO. 1-47W809-2, R22	FSAR FIGURE 9.3-15-2	220,202
73 - TVA DWG NO. 1-47W865-3, R19	FSAR FIGURE 9.4-2	395,859
74 - TVA DWG NO. 1-47W865-7, R22	FSAR FIGURE 9.4-3	394,818
75 - TVA DWG NO. 1-47W840-1B, R11	FSAR FIGURE 9.5-20 SH B	166,736
76 - TVA DWG NO. 1-47W610-18-1, R14	FSAR FIGURE 9.5-21	195,706
77 - TVA DWG NO. 1-47W611-18-1, R4	FSAR FIGURE 9.5-22	195,166

**ENCLOSURE**

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File Name		File Size - Bytes
78 - TVA DWG NO. 1-47W839-1, R17	FSAR FIGURE 9.4-24	310,814
79 - TVA DWG NO. 1-47W610-82-1, R18	FSAR FIGURE 9.5-25	194,099
80 - TVA DWG NO. 1-47W610-82-2, R7	FSAR FIGURE 9.5-25A	177,259
81 - TVA DWG NO. 1-47W610-82-3, R7	FSAR FIGURE 9.5-25B	179,755
82 - TVA DWG NO. 1-47W610-82-4, R7	FSAR FIGURE 9.5-25C	186,045