



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

December 18, 2008

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

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop: OWFN P1-35
Washington, D.C. 20555-0001

In the Matter of)
Tennessee Valley Authority)

Docket No. 50-391

**WATTS BAR NUCLEAR PLANT (WBN) – UNIT 2 – FINAL SAFETY ANALYSIS
REPORT (FSAR), AMENDMENT 92**

This letter provides WBN Unit 2 FSAR Amendment 92 (A92) that incorporates changes to WBN FSAR Amendment 91 (A91), originally submitted on October 24, 1995 (Reference 1), and resubmitted to NRC on July 2, 2008 (Reference 2). As stated in the July 2, 2008 letter, the purpose of resubmitting A91 was to establish a baseline to assist in the licensing process for completion of construction and licensing activities for WBN Unit 2.

The focus of this Unit 2 amendment is to incorporate both administrative changes and significant changes to "common systems" that have occurred since WBN FSAR A91 was originally submitted prior to WBN Unit 1 receiving an operating license. The administrative changes that were incorporated into this amendment included editorial-type changes (e.g., typos, spacing, unitization issues, etc.) and changes resulting from the re-verification effort of WBN's Updated FSAR (UFSAR) that TVA initiated in 1997 in response to NRC's October 9, 1996, 10 CFR 50.54(f) request for information regarding the adequacy, availability, and control of design bases information (Reference 3). This re-verification effort resulted in a number of administrative changes (e.g., minor documentation discrepancies among the FSAR text and tables, system descriptions, design criteria, and calculations, etc.) that were submitted in WBN's Unit 1 UFSAR Amendments 0, 1, and 2 (References 4, 5, and 6, respectively). Enclosure 1 contains a summary listing that provides the location and corresponding FSAR change package number associated with the administrative changes that resulted from the re-verification effort that were incorporated into WBN FSAR A92. Additionally, several other administrative changes similar to the changes in this enclosure, but made in subsequent FSAR amendments (Amendments 3 and 6), are also included.

The changes to "common systems" that have been incorporated were identified as "significant" in TVA's letter titled "Watts Bar Nuclear Plant (WBN) - Unit 2 - Final Safety Analysis Report (FSAR) Red-Line for Unit 2," submitted on February 8, 2008 (Reference 7). As noted in this February 8 letter, the "red-line" version of the WBN FSAR was developed by electronically comparing WBN Unit 1's UFSAR, Amendment 6 (current at the time of the electronic

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comparison) to the WBN A91 FSAR. The electronic comparison of these two WBN FSARs produced the "red-line" FSAR. Also, as part of the FSAR "red-line" effort, TVA performed a review of the annotated FSAR changes produced by this electronic comparison in order to identify and categorize significant changes that will eventually become a part of the combined Unit 1 and Unit 2 FSAR at Unit 2 fuel load. The results of this review were identified and documented in Enclosures 1 and 2 of Reference 7. It should be noted that those "common system" changes that require further engineering analysis to justify dual-unit operation (e.g., ERCW, diesel generators, etc.) will be included in future amendments. Enclosure 2 contains a summary listing that provides the location and corresponding FSAR change package numbers associated with the "common systems" changes that were incorporated into the WBN FSAR A92.

As stated in TVA's July 2, 2008 letter, from the time that the WBN Unit 1 operating license was granted, changes have been made to the UFSAR in accordance with 10 CFR 50.71(e) to reflect analysis and modifications completed in the plant. WBN's current UFSAR for Unit 1 has now been revised through Amendment 7 (Reference 8). As such, the enclosed FSAR, revised through Amendment 92, reflects only those changes applicable to Unit 2 through UFSAR Amendment 6 and does not reflect the current configuration of WBN Unit 1.

TVA is submitting two copies of the FSAR, updated through Amendment 92 (on 4 CD-ROMs), in accordance with NRC "Guidance for Electronic Submissions to the NRC," Section 2.19, "Sensitive Information," dated November 20, 2007.

The first copy (OSM #1 - Disk 1 (Sensitive) and OSM #2 - Disk 2 (Sensitive)) contains the full FSAR, including sensitive information. The full text of the FSAR is contained on OSM #1 - Disk 1 (Sensitive). OSM #2 - Disk 2 (Sensitive) only contains oversized drawings larger than 11 inches by 17 inches. TVA requests that the full version (OSM #1 - Disk 1 (Sensitive) and OSM #2 - Disk 2 (Sensitive)) be withheld under 10 CFR 2.390(d)(1). The second copy (OSM #3 - Disk 1 (Publicly Available) and OSM #4 - Disk 2 (Publicly Available)) has been redacted for public availability. The redacted text of the FSAR is contained on OSM #3 - Disk 1 (Publicly Available). OSM #4 - Disk 2 (Publicly Available) only contains oversized drawings larger than 11 inches by 17 inches. Enclosure 3 provides a list of redacted pages and the nature of the sensitive information to be withheld.

In accordance with NRC "Guidance for Electronic Submissions to the NRC," Section 2.7, "Transmittal Letters," dated November 20, 2007, optical storage media (OSM) contents are listed below.

OSM #1 - Disk 1 (Sensitive) - Withhold Under 10 CFR 2.390(d)(1)

Located in the "FSAR_Files" Folder:

001-028 Watts Bar FSAR, Amendment 92, 339,288,064 bytes, security related

OSM #2 - Disk 2 (Sensitive) - Withhold Under 10 CFR 2.390(d)(1)

Located in the "TVA_WB_FSAR_Figures" Folder:

001-038 Watts Bar FSAR, Amendment 92 Oversized Figures, 40,013,824 bytes, security related

OSM #3 - Disk 1 (Publicly Available)

Located in the "FSAR_Files" Folder:

001-028 Watts Bar FSAR, Amendment 92 (redacted), 309,991,424 bytes

OSM #4 - Disk 2 (Publicly Available)


Located in the "TVA_WB_FSAR_Figures" Folder:

001-038 Watts Bar FSAR, Amendment 92 Oversized Figures (redacted), 40,013,824 bytes

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

I declare under the penalty of perjury that the foregoing is true and correct. Executed on December 18, 2008.

Sincerely,


Masoud Bajestani
Watts Bar Unit 2 Vice President

Enclosures
cc: See page 4

References:

1. TVA letter dated October 24, 1995, "Watts Bar Nuclear Plant (WBN) - Units 1 and 2 - Final Safety Analysis Report Amendment 91" (T04 951029 243)
2. TVA letter dated July 2, 2008, "Watts Bar Nuclear Plant (WBN) - Units 1 and 2 - Final Safety Analysis Report Amendment 91" (T02 080702 001)
3. NRC letter dated October 9, 1996, "Request for Information Pursuant to 10 CFR 50.54(f) Regarding Adequacy and Availability of Design Bases Information" (L44 961016 001)
4. TVA letter dated February 9, 1998, "Watts Bar Nuclear Plant (WBN) - Unit 1 - Initial Updated Final Safety Analysis Report (UFSAR), Updated Fire Protection Report, and Revised Commitment for Final Safety Analysis Report (FSAR) Review" (T04 980209 533)
5. TVA letter dated October 18, 1999, "Watts Bar Nuclear Plant (WBN) - Unit 1 - Updated Final Safety Analysis Report (UFSAR) Amendment 1 and the Update to the Fire Protection Report" (T04 991018 817)
6. TVA letter dated April 6, 2001, "Watts Bar Nuclear Plant (WBN) Unit 1 - Updated Final Safety Analysis Report (UFSAR) Amendment 2" (T04 010406 968)
7. TVA letter dated February 8, 2008, "Watts Bar Nuclear Plant (WBN) - Unit 2 - Final Safety Analysis Report (FSAR) Red-Line for Unit 2" (T90 080208 001)
8. TVA letter dated September 23, 2008, "Watts Bar Nuclear Plant (WBN) Unit 1 - Updated Final Safety Analysis Report (UFSAR) Amendment 7" (T04 080923 801)

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ENCLOSURE 1

List of Unit 2 FSAR Amendment 92 "Reverification Administrative Changes"

Item No.	Section/Page No Evaluated	U2 FSAR Page Number	Unit 1 Change Package
01	1.1	1.1-1	A1-1575-S00
02	1.2	1.2-6 1.2-7 1.2-9 1.2-10 1.2-12 1.2-13	A1-1575-S00
03	2.2	2.2-2	A1-1582-S00
04	2.3	2.3-1 2.3-9 2.3-10 2.3-11 2.3-12 2.3-15	A1-1522-S00 A2-1665-S00 A3-1701-S00
05	3.1	3.1-1 3.1-3 3.1-7 3.1-14 3.1-15 3.1-16 3.1-26 3.1-29 3.1-30 3.1-37	A1-1582-S00
06	3.2	3.2-4	A1-1575-S00
07	3.3	3.3-3	A1-1530-S00
08	3.5	3.5-6 3.5-8 3.5-9 3.5-10 3.5-11 3.5-21 3.5-22 3.5-25 3.5-26 3.5-27 3.5-29 3.5-30 3.5-33	A1-1530-S00
09	3.6A	3.6A-8 3.6A-10 3.6A-21 3.6A-23	A1-1530-S00 A2-1602-S00
10	5.3	5.3-1	A1-1574-S00

ENCLOSURE 1

List of Unit 2 FSAR Amendment 92 "Reverification Administrative Changes"

Item No.	Section/Page No Evaluated	U2 FSAR Page Number	Unit 1 Change Package
11	5.6	5.6-1 5.6-2 5.6-3 5.6-4 5.6-5 5.6-6 5.6-7 5.6-8	A1-1551-S00
12	6.4	6.4-1 6.4-2 6.4-3 6.4-4 6.4-5 6.4-7 6.4-9 6.4-10 6.4-11 6.4-12 6.4-13	A1-1520-S00
13	6.5	6.5-1 6.5-2 6.5-3 6.5-4 6.5-5 6.5-6 6.5-7 6.5-8 6.5-9 6.5-10	A1-1520-S00
14	6.6	6.6-1 6.6-2	A1-1603-S00 A2-1602-S00
15	6.8	6.8-1 6.8-2 6.8-3	A1-1520-S00
16	7.4	7.4-1 7.4-3 7.4-5 7.4-6 7.4-7	A1-1567-S00

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List of Unit 2 FSAR Amendment 92 "Reverification Administrative Changes"

Item No.	Section/Page No Evaluated	U2 FSAR Page Number	Unit 1 Change Package
17	9.5	9.5-1 9.5-2 9.5-4 9.5-5 9.5-6 9.5-7 9.5-8 9.5-10 9.5-13 9.5-14 9.5-16 9.5-17 9.5-18 9.5-19 9.5-21 9.5-23 9.5-26	A1-1556-S00 A2-1581-S00 A3-1641-S00 A6-1879-S01
18	10.2	10.2-1 10.2-2 10.2-3 10.2-4 10.2-5 10.2-12 10.2-13 10.2-14 10.2-15 10.2-16 10.2-17	A1-1569-S00 A6-1890-S00
19	10.3	10.3-1 10.3-2 10.3-3 10.3-4 10.3-5 10.3-6	A1-1569-S00
21	12.1	12.1-1 12.1-2	A1-1582-S00
22	12.4	12.4-1 12.4-2	A1-1548-S00
23	12.5	12.5-1 12.5-2 12.5-3 12.5-4 12.5-5 12.5-6 12.5-7 12.5-8	A0-1437-S00 A1-1548-S00

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List of Unit 2 FSAR Amendment 92 "Reverification Administrative Changes"

Item No.	Section/Page No Evaluated	U2 FSAR Page Number	Unit 1 Change Package
24	13.6	13.6-1 13.6-2	A1-1543-S00

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List of Unit 2 FSAR Amendment 92 Significant "Common System" Changes

Item No.	Section Evaluated for Change	U2 FSAR Page Number	U1 Change Package No. [Amendment # - Chg. Pkg. #]
1.	1.2.1.4	1.2-1	A1-1550-S00
2.	2.4	2.4-1	A1-1550-S00
3.	2.4.1.1	2.4-1	A1-1550-S00
4.	2.4.1.2	2.4-3	A1-1550 -S00
5.	2.4.1.2	2.4-4	A1-1550-S00
6.	2.4.1.2	2.4-5	A1-1550-S00
7.	2.4.14.1.1	2.4-53	A1-1550-S00
8.	2.4.14.10	2.4-66	A1-1550-S00
9.	2.4.14.10	2.4-67	A1-1550-S00
10.	2.4.14.11	2.4-68	A1-1550-S00
11.	2.4.14.8	2.4-59	A1-1550-S00
12.	2.4.14.8.2	2.4-60	A1-1550-S00
13.	2.4.14.9.2	2.4-61	A1-1550-S00
14.	2.4.14.9.2	2.4-62	A1-1550-S00
15.	2.4.14.9.5	2.4-65	A1-1550-S00
16.	2.4.14.9.6	2.4-66	A1-1550-S00
17.	2.4.2.2	2.4-8	A1-1550-S00
18.	2.4.2.3	2.4-11	A1-1550-S00
19.	2.4.2.3	2.4-12	A1-1550-S00
20.	2.4.3	2.4-12	A1-1550-S00
21.	2.4.3.1	2.4-13 - 14	A1-1550-S00
22.	2.4.3.3	2.4-17	A1-1550-S00
23.	2.4.3.4	2.4-18	A1-1550-S00
24.	2.4.3.4	2.4-20	A1-1550-S00
25.	2.4.3.4	2.4-21	A1-1550-S00
26.	2.4.3.4	2.4-22	A1-1550-S00
27.	2.4.3.4	2.4-23	A1-1550-S00
28.	2.4.3.4	2.4-25	A2-1550-S01
29.	2.4.3.5	2.4-25 - 26	A1-1550-S00
30.	2.4.3.6	2.4-26 - 27	A1-1550-S00
31.	2.4.4.1	2.4-29	A1-1550-S00
32.	2.4.4.1	2.4-31	A1-1550-S00
33.	2.4.4.1	2.4-32	A1-1550-S00
34.	2.4.4.1	2.4-33	A1-1550-S00

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List of Unit 2 FSAR Amendment 92 Significant "Common System" Changes

Item No.	Section Evaluated for Change	U2 FSAR Page Number	U1 Change Package No. [Amendment # - Chg. Pkg. #]
35.	2.4.4.1	2.4-35	A1-1550-S00
36.	2.4.4.1	2.4-36	A1-1550-S00
37.	2.4.4.1	2.4-38	A1-1550-S00
38.	2.4.4.1	2.4-39	A1-1550-S00
39.	2.4.4.1	2.4-40	A1-1550-S00
40.	2.4.4.3	2.4-40	A1-1550-S00
41.	3.8.1.1	3.8.1-3	A0-1404-S00
42.	3.8.1.3	3.8.1-6	A1-1550-S00
43.	3.8.5.5.2	3.8.5-7	A1-1550-S00
44.	4.3 References	4.3-42 4.3-43 4.3-44 4.3-45	A0-1464-S00 A4-1691-S00
45.	4.3.2.7	4.3-29 4.3-30 4.3-31 4.3-32 4.3-33	A0-1464-S00
46.	6.2.3.3.1	6.2.3-13	A1-1550-S00
47.	8.3.1.1	8.3-14	A1-1550-S00
48.	8.3.2.1.1	8.3-58	A2-1606-S00
49.	9.1.1.3	9.1-1	A4-1691-S00
50.	9.1.2.1	9.1-2	A0-1464-S00 A4-1691-S00
51.	9.1.2.2	9.1-3	A0-1464-S00 A4-1691-S00
52.	9.1.2.3	9.1-3	A0-1464-S00 A4-1691-S00
53.	9.1.2.4	9.1-4	A0-1464-S00
54.	9.1.3.1.1	9.1-4 9.1-5	A0-1464-S00 A1-1580-S00 A3-1707-S00 A4-1691-S01
55.	9.1.3.2	9.1-5 9.1-6	A0-1464-S00 A4-1691-S00
56.	9.1.3.2.1	9.1-8	A0-1464-S00

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List of Unit 2 FSAR Amendment 92 Significant "Common System" Changes

Item No.	Section Evaluated for Change	U2 FSAR Page Number	U1 Change Package No. [Amendment # - Chg. Pkg. #]
57.	9.1.3.3.1	9.1-9	A0-1464-S00 A1-1597-S00 A3-1707-S00
58.	9.1.3.3.3	9.1-10	A0-1464-S00 A1-1580-S00 A3-1707-S00
59.	9.1.4.1	9.1-12	A2-1647-S00
60.	9.1.4.2	9.1-13	A1-1580-S00 A2-1647-S00
61.	9.1.4.2.2	9.1-17 9.1-18	A1-1580-S00 A2-1647-S00 A2-1623-S00
62.	9.1.4.4	9.1-26	A3-1707-S00
63.	9.2.8.2	9.2-41	A1-1525-S00
64.	9.3.3.1	9.3-12	A3-1648-S00
65.	9.4.3.2.5	9.4-17	A1-1520-S00 A2-1606-S00
66.	11.1.2	11.1-2	A4-1691-S00
67.	11.1.2	11.1-3	A4-1691-S00
68.	11.1 References	11.1-4	A4-1691-S00
69.	11.2.1	11.2-1	A4-1691-S00
70.	11.2.2	11.2-3	A4-1691-S00
71.	11.2.2	11.2-5	A2-1644-S00
72.	11.2.3.1	11.2-6	A0-1507-S00 A1-1572-S00 A4-1691-S00
73.	11.2.4	11.2-14	A0-1507-S00 A1-1572-S00 A4-1691-S00
74.	11.2.6.3	11.2-19	A1-1572-S00 A4-1691-S00
75.	11.3.1	11.3.1	A4-1691-S00
76.	11.3.10.1	11.3-9	A1-1572-S00 A4-1691-S00
77.	11.3.7.3	11.3-6	A1-1572-S00 A4-1691-S00

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List of Unit 2 FSAR Amendment 92 Significant "Common System" Changes

Item No.	Section Evaluated for Change	U2 FSAR Page Number	U1 Change Package No. [Amendment # - Chg. Pkg. #]
78.	11.3.7.4	11.3.6	A1-1592-S00 A4-1691-S00
79.	11.4.2.2.4	11.4-6	A4-1754-S00
80.	11.4.3	11.4-9	A1-1557-S00 A4-1754-S00
81.	11.5.3.1	11.5-1 & -2	A1-1572-S00 A2-1644-S00
82.	11A	11 A-4	A0-1483-S00 A4-1691-S00
83.	11A.6	11 A-4	A4-1691-S00
84.	12.3.3.3	12.3-16	A4-1691-S00
85.	Appendix 12A	12.5-7 12.5-8	A4-1691-S00
86.	15.2.13.2	15.2-36	A4-1691-S00
87.	15.4	15.4-46	A0-1464-S00
88.	2.4-7	Table 2.4-7 Sheet 1 of 1	A1-1550-S00
89.	2.4-8	Table 2.4-8 Sheet 1 of 1	A1-1550-S00
90.	2.4-12	[Deleted] Table 2.4-12 Sheet 1 of 1	A1-1550-S00
91.	2.4-13	[Deleted] Table 2.4-13 Sheet 1 of 1	A1-1550-S00
92.	2.4-12	Renumbered Existing Table 2.4-14 as new Table 2.4-12	A1-1550-S00
93.	2.4-13	Renumbered Existing Table 2.4-15 as new Table 2.4-13	A1-1550-S00
94.	2.4-14	Renumbered Existing Table 2.4-16 as new Table 2.4-14	A1-1550-S00
95.	4-iii	List of Tables	A4-1691-S00

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List of Unit 2 FSAR Amendment 92 Significant "Common System" Changes

Item No.	Section Evaluated for Change	U2 FSAR Page Number	U1 Change Package No. [Amendment # - Chg. Pkg. #]
96.	4-vi	List of Figures	A4-1691-S00
97.	4.3-2	Table 4.3-2 (Sheet 2 of 2)	A4-1691-S00
98.	4.3-12	Table 4.3-12	A0-1464-S00 A4-1691-S00
99.	4.3-13	Table 4.3-13	A0-1464-S00
100.	4.3-13	Table 4.3-13	A4-1691-S00
101.	4.3-14	Table 4.3-14	A0-1464-S00 A4-1691-S00
102.	4.3-15	Table 4.3-15	A0-1464-S00
103.	4.3-16	Table 4.3-16	A0-1464-S00
104.	9.1-1	Table 9.1-1	A0-1464-S00 A3-1707-S00 A4-1691-S00
105.	9.1-3	Table 9.1-3	A0-1464-S00
106.	9.4-5	Table 9.4-5 Sheet 1 of 32 Sheet 9 of 32 Sheet 10 of 32 Sheet 11 of 32 Sheet 12 of 32 Sheet 25 of 32 Sheet 26 of 32 Sheet 27 of 32 Sheet 28 of 32 Sheet 29 of 32 Sheet 30 of 32 Sheet 31 of 32 Sheet 32 of 32	A1-1520-S00 A2-1606-S00 A4-1643-S00 A6-1895-S00
107.	13.5-1 Page 5 of 5	Table 13.5-1 Page 5 of 5	A2-1647-S00
108.	2.4-2	Figure 2.4-2	A1-1550-S00
109.	2.4-3	Figure 2.4-3	A1-1550-S00
110.	2.4-3a	Figure 2.4-3a	A1-1550-S00
111.	2.4-7	Figure 2.4-7	A1-1550-S00
112.	2.4-8	Figure 2.4-8	A1-1550-S00
113.	2.4-10	Figure 2.4-10	A1-1550-S00

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List of Unit 2 FSAR Amendment 92 Significant "Common System" Changes

Item No.	Section Evaluated for Change	U2 FSAR Page Number	U1 Change Package No. [Amendment # - Chg. Pkg. #]
114.	2.4-11	Figure 2.4-11	A1-1550-S00
115.	2.4-47b	Figure 2.4-47b	A1-1550-S00
116.	2.4-47c	Figure 2.4-47c	A1-1550-S00
117.	2.4-52	Figure 2.4-52	A1-1550-S00
118.	2.4-54	Figure 2.4-54	A1-1550-S00
119.	2.4-55	Figure 2.4-55	A1-1550-S00
120.	2.4-56	Figure 2.4-56	A1-1550-S00
121.	2.4-57	Figure 2.4-57	A1-1550-S00
122.	2.4-58	Figure 2.4-58	A1-1550-S00
123.	2.4-60	Figure 2.4-60	A1-1550-S00
124.	2.4-64	Figure 2.4-64	A1-1550-S00
125.	2.4-65	Figure 2.4-65	A1-1550-S00
126.	2.4-67	Figure 2.4-67	A1-1550-S00
127.	2.4-111	Figure 2.4-111	A1-1550-S00
128.	4.3-46	Figure 4.3-46	A0-1464-S00 A4-1691-S00
129.	4.3-47	Figure 4.3-47	A0-1464-S00 A4-1691-S00
130.	9.1-15	Figure 9.1-15	A0-1464-S00
131.	9.1-16	Figure 9.1-16	A0-1464-S00
132.	9.2-35	Figure 9.2-35	A1-1525-S00
133.	9.4-15	Figure 9.4-15	A1-1520-S00 A2-1606-S00
134.	11.2-1	Figure 11.2-1 Sheet 2	A4-1754-S00
135.	11.2-1	Figure 11.2-1 Sheet 4	A4-1754-S00
136.	11.3-1	Figure 11.3-1 Sheet 1	A4-1754-S00
137.	11.3-1	Figure 11.3-1 Sheet 2	A4-1754-S00

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