



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

April 30, 2009

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

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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 93**

- References: 1. TVA letter to the NRC, dated December 18, 2008, "Watts Bar Nuclear Plant (WBN) - Unit 2 - Final Safety Analysis Report (FSAR), Amendment 92" (ML090340530)
2. NRC letter dated March 23, 2009, "Watts Bar Nuclear Plant (WBN) - Unit 2 - Confirmation of Schedule for Submission of Information to Support OL Application Review (TAC No. MD6581)"

This letter transmits WBN Unit 2 FSAR Amendment 93 (A93), which reflects changes made since the issuance of Amendment 92 on December 18, 2008 (Reference 1). This Unit 2 amendment incorporates changes resulting from TVA's ongoing design/reverification effort in support of the development of the WBN Unit 2 design basis. This letter also responds to NRC letter dated March 23, 2009, requesting TVA to verify the schedule for providing information amending the FSAR (Reference 2). Specifically, NRC requested TVA to verify the schedule dates for submitting amendments on specific FSAR sections depicted in the enclosure to NRC's March 23 letter.

Enclosure 1 contains TVA's schedule dates for submitting amendments for the Safety Evaluation Report (SER) sections (with corresponding FSAR sections) listed in NRC's letter. TVA has completed its design/reverification review of the SER sections indicated with an April 2009 due date and determined that no further changes are anticipated with the Unit 2 FSAR's text and tables, the design-related activities are complete, and the verbiage is consistent with the Unit 1 Updated FSAR, as appropriate. Enclosure 2 contains a "Summary Listing" of the location and corresponding Unit 2 FSAR change package numbers associated with the A93 changes. Enclosure 3 contains a listing of administrative changes that have been identified as part of TVA's review.

Enclosure OSM DVD #1 transmitted herewith contains SUNSI. When separated from Enclosure OSM DVD #1, this transmittal document is decontrolled.

A053
NRK

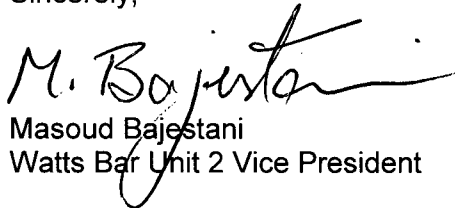
April 30, 2009

The A93 FSAR is contained on the enclosed Optical Storage Media (enclosed OSM DVD #1). The FSAR contains security-related information identified by the designation "Security-Related Information - Withhold Under 10 CFR 2.390." TVA hereby requests this information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390. A redacted version of the FSAR is contained on OSM #2 (enclosed OSM DVD # 2), which is suitable for public disclosure. Enclosure 4 contains a listing of the FSAR pages that have been redacted and there are no changes to the list of redacted pages as a result of A93.

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 April 30, 2009.

Sincerely,


Masoud Bajestani
Watts Bar Unit 2 Vice President

Enclosures:

1. TVA's Schedule for Specified Unit 2 FSAR Sections
2. List of Unit 2 FSAR Amendment 93 "Completed Sections and Required FSAR Changes"
3. List of Unit 2 FSAR Amendment 93 "Administrative Changes"
4. Watts Bar Nuclear Plant Unit 2 FSAR Amendment 93, "Summary of Redacted Pages"

Enclosed DVDs:

1. **OSM #1: WBNP Unit 2 FSAR Amendment 93 - Security-Related Information - Withhold Under 10CFR2.390**

\\TVA_WBN-2_FSAR_Files - Files 001 through 028 (339,288,064 bytes)

\\TVA_WBN-2_Oversized_FSAR_Figures
Files 001 through 038 (40,013,824 bytes)

\\TVA_WBN-2_Oversized_FSAR_Table - File 001 (4,352 bytes)

2. **OSM #2: WBNP Unit 2 FSAR Amendment 93 - Public Version**

\\TVA_WBN-2_FSAR_Files - Files 001 through 028 (339,288,064 bytes)

\\TVA_WBN-2_Oversized_FSAR_Figures
Files 001 through 038 (40,013,824 bytes)

\\TVA_WBN-2_Oversized_FSAR_Table - File 001 (4,352 bytes)

cc: See page 3

cc (w/enclosures 1-4 only):

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ENCLOSURE 1

TVA's Schedule for Specified Topic Items and Corresponding Sections of the Unit 2 FSAR

SER Section	FSAR Section	SER Title	Scheduled Due Date
2.2.0	2.2	Nearby Industrial, Transportation, and Military Facilities	Aug. 2009
2.2.1	2.2.1	Transportation Routes	Aug. 2009
2.2.2	2.2.2	Nearby Facilities	Aug. 2009
2.2.3	2.2.3	Conclusions	Aug. 2009
2.4.0	2.4.	Hydrologic Engineering	Jan. 2010
2.4.1	*	Introduction	N/A
2.4.2	2.4.1	Hydrologic Description	Jan. 2010
2.4.3	2.4.3 2.4.4 2.4.5 2.4.6 2.4.7 2.4.10 2.4.11 2.4.14	Flood Potential	Jan. 2010
2.4.4	2.4.2	Local Intense Precipitation in Plant Area	Apr. 2009
2.4.5	2.4.2	Roof Drainage	Apr. 2009
2.4.6	9.2.5	Ultimate Heat Sink	Jan. 2010
2.4.7	2.4.13	Ground Water	Jan. 2010
2.4.8	2.4.13 2.5.4	Design Basis Subsurface Hydrostatic Loading	Jan. 2010
2.4.9	2.4.12	Transport of Liquid Releases	Apr. 2009
2.4.10	2.4.10 2.4.14	Flood Protection Requirements	Jan. 2010
3.7.0	3.7.	Seismic Design	Apr. 2009
3.7.1	3.7.1	Seismic Input	Apr. 2009
3.7.2	3.7.2	Seismic Analysis	Apr. 2009
3.7.3	3.7.3	Seismic Subsystem Analysis	Apr. 2009
3.7.4	3.7.4	Seismic Instrumentation	Apr. 2009
8.2.4	*	Evaluation Findings	N/A
9.2.5	9.2.5	Ultimate Heat Sink	Jan. 2010
9.4.4	9.4.4	Turbine Building Area Ventilation System	Jan. 2010
12.5	12.4	Dose Evaluation	Jan. 2010

* - No equivalent FSAR section exists for this SER section.

ENCLOSURE 2

List of Unit 2 FSAR Amendment 93 "Completed Sections and Required FSAR Changes"

Item No.	SER 21 Section 1.7 Topic Areas	Section	U2 FSAR Page Number	Change Package Number
1.	59	3.7.3.18	3.7-61	2-93-03
2.	60	3.7.4	3.7-61	2-93-03
3.	60	3.7.4.1	3.7-61	2-93-03
4.	60	3.7.4.2	3.7-62 thru 63	2-93-03
5.	60	3.7.4.3	3.7-64	2-93-03
6.	60	3.7.4.4	3.7-64 & 65	2-93-03
7.	60	3.7.4.5	3.7-65 & 66	2-93-03
8.	60	3.7.4 References	3.7-67 & 68	2-93-03
9.	58	Table 3.7-22	3.7-113	2-93-03
10.	58	Table 3.7-23	3.7-114	2-93-03

ENCLOSURE 3

List of Unit 2 FSAR Amendment 93 "Administrative Changes"

Item No.	SER 21 Section 1.7 Topic Areas	Section Evaluated for Change	U2 FSAR Page Number	Change Package No. [Unit 2. Pkg. # & Unit 1 Pkg. #]
1.	21	2.4.2	2.4-8	2-93-4 & 1-1550
2.	26	2.4.12	2.4-47	2-93-5 & 1-1462
3.	58	3.7.2.1.2	3.7-12	2-93-3 & 1-1875
4.	58	3.7.2.1.3	3.7-17	2-93-3 & 1-1531
5.	59	3.7.3.8.1	3.7-39 & 40	2-93-3 & 1-1531
6.	59	3.7.3.17.6	3.7-60	2-93-3 & 1-1531
7.	58	Table 3.7-6	3.7-82	2-93-3 & 1-1531
8.	58	Table 3.7-8	3.7-87	2-93-3 & 1-1531
9.	58	Table 3.7-17	3.7-104	2-93-3 & 1-1531

ENCLOSURE 4

WATTS BAR NUCLEAR PLANT UNIT 2 FSAR AMENDMENT 93 Summary of Redacted Pages

CHAPTER	PAGE(s)	SECTION No.	FIGURE No.	BASIS FOR REDACTION
1	1.2-15	1.2	1.2-1	Security Related, 10CFR2.390(d)(1)
1	1.2-16	1.2	1.2-2	Security Related, 10CFR2.390(d)(1)
1	1.2-17	1.2	1.2-3	Security Related, 10CFR2.390(d)(1)
1	1.2-18	1.2	1.2-4	Security Related, 10CFR2.390(d)(1)
1	1.2-19	1.2	1.2-5	Security Related, 10CFR2.390(d)(1)
1	1.2-20	1.2	1.2-6	Security Related, 10CFR2.390(d)(1)
1	1.2-21	1.2	1.2-7	Security Related, 10CFR2.390(d)(1)
1	1.2-22	1.2	1.2-8	Security Related, 10CFR2.390(d)(1)
1	1.2-23	1.2	1.2-9	Security Related, 10CFR2.390(d)(1)
1	1.2-24	1.2	1.2-10	Security Related, 10CFR2.390(d)(1)
1	1.2-25	1.2	1.2-11	Security Related, 10CFR2.390(d)(1)
1	1.2-26	1.2	1.2-12	Security Related, 10CFR2.390(d)(1)
1	1.2-27	1.2	1.2-13	Security Related, 10CFR2.390(d)(1)
1	1.2-28	1.2	1.2-14	Security Related, 10CFR2.390(d)(1)
1	1.2-29	1.2	1.2-15	Security Related, 10CFR2.390(d)(1)
2	2.2-7	2.2	2.2-1	Security Related, 10CFR2.390(d)(1)
2	2.2-8	2.2	2.2-2	Security Related, 10CFR2.390(d)(1)
2	2.4-90	2.4	2.4-2	Security Related, 10CFR2.390(d)(1)
2	2.4-91	2.4	2.4-3	Security Related, 10CFR2.390(d)(1)
2	2.4-92	2.4	2.4-3a	Security Related, 10CFR2.390(d)(1)
2	2.4-93	2.4	2.4-4	Security Related, 10CFR2.390(d)(1)
2	2.4-94	2.4	2.4-5	Security Related, 10CFR2.390(d)(1)
2	2.4-95	2.4	2.4-6	Security Related, 10CFR2.390(d)(1)
2	2.4-96	2.4	2.4-7	Security Related, 10CFR2.390(d)(1)
2	2.4-97	2.4	2.4-8	Security Related, 10CFR2.390(d)(1)
2	2.4-98	2.4	2.4-9	Security Related, 10CFR2.390(d)(1)
2	2.4-99	2.4	2.4-10	Security Related, 10CFR2.390(d)(1)
2	2.4-100	2.4	2.4-11	Security Related, 10CFR2.390(d)(1)
2	2.4-101	2.4	2.4-12	Security Related, 10CFR2.390(d)(1)
2	2.4-102	2.4	2.4-13	Security Related, 10CFR2.390(d)(1)
2	2.4-103	2.4	2.4-14	Security Related, 10CFR2.390(d)(1)
2	2.4-131	2.4	2.4-40a Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-132	2.4	2.4-40a Sheet 2	Security Related, 10CFR2.390(d)(1)
2	2.4-134	2.4	2.4-40b	Security Related, 10CFR2.390(d)(1)
2	2.4-135	2.4	2.4-40c	Security Related, 10CFR2.390(d)(1)
2	2.4-136	2.4	2.4-40d-1	Security Related, 10CFR2.390(d)(1)
2	2.4-141	2.4	2.4-40f Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-144	2.4	2.4-40g Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-201	2.4	2.4-76	Security Related, 10CFR2.390(d)(1)
2	2.4-204	2.4	2.4-79	Security Related, 10CFR2.390(d)(1)
2	2.4-207	2.4	2.4-82	Security Related, 10CFR2.390(d)(1)
2	2.4-208	2.4	2.4-83	Security Related, 10CFR2.390(d)(1)
2	2.4-213	2.4	2.4-88	Security Related, 10CFR2.390(d)(1)

ENCLOSURE 4

WATTS BAR NUCLEAR PLANT UNIT 2 FSAR AMENDMENT 93 Summary of Redacted Pages

CHAPTER	PAGE(s)	SECTION No.	FIGURE No.	BASIS FOR REDACTION
2	2.4-214	2.4	2.4-89	Security Related, 10CFR2.390(d)(1)
2	2.4-215	2.4	2.4-90	Security Related, 10CFR2.390(d)(1)
2	2.4-223	2.4	2.4-98	Security Related, 10CFR2.390(d)(1)
2	2.5-473	2.5	2.5-185	Security Related, 10CFR2.390(d)(1)
2	2.5-274	2.5	2.5-185a	Security Related, 10CFR2.390(d)(1)
2	2.5-515	2.5	2.5-225	Security Related, 10CFR2.390(d)(1)
2	2.5-516	2.5	2.5-226	Security Related, 10CFR2.390(d)(1)
2	2.5-517	2.5	2.5-226a	Security Related, 10CFR2.390(d)(1)
2	2.5-557	2.5	2.5-273	Security Related, 10CFR2.390(d)(1)
2	2.5-692	2.5	2.5-358	Security Related, 10CFR2.390(d)(1)
2	2.5-936	2.5	2.5-592	Security Related, 10CFR2.390(d)(1)
3	3.5-57	3.5	3.5-3	Security Related, 10CFR2.390(d)(1)
3	3.5-58	3.5	3.5-4	Security Related, 10CFR2.390(d)(1)
3	3.6-41	3.6	3.6-21	Security Related, 10CFR2.390(d)(1)
3	3.6-42	3.6	3.6-22	Security Related, 10CFR2.390(d)(1)
3	3.6-43	3.6	3.6-23	Security Related, 10CFR2.390(d)(1)
3	3.6-44	3.6	3.6-24	Security Related, 10CFR2.390(d)(1)
3	3.7-215	3.7	3.7-39	Security Related, 10CFR2.390(d)(1)
3	3.7-216	3.7	3.7-40	Security Related, 10CFR2.390(d)(1)
3	3.7-217	3.7	3.7-41	Security Related, 10CFR2.390(d)(1)
3	3.7-220	3.7	3.7-44	Security Related, 10CFR2.390(d)(1)
3	3.8.3-62	3.8.3	3.8.3-6	Security Related, 10CFR2.390(d)(1)
3	3.8.3-63	3.8.3	3.8.3-7	Security Related, 10CFR2.390(d)(1)
3	3.8.4-88	3.8.4	3.8.4-2	Security Related, 10CFR2.390(d)(1)
3	3.8.4-89	3.8.4	3.8.4-3	Security Related, 10CFR2.390(d)(1)
3	3.8.4-90	3.8.4	3.8.4-4	Security Related, 10CFR2.390(d)(1)
3	3.8.4-91	3.8.4	3.8.4-5	Security Related, 10CFR2.390(d)(1)
3	3.8.4-92	3.8.4	3.8.4-6	Security Related, 10CFR2.390(d)(1)
3	3.8.4-95	3.8.4	3.8.4-9	Security Related, 10CFR2.390(d)(1)
3	3.8.4-103	3.8.4	3.8.4-17	Security Related, 10CFR2.390(d)(1)
3	3.8.4-104	3.8.4	3.8.4-18	Security Related, 10CFR2.390(d)(1)
3	3.8.4-105	3.8.4	3.8.4-19	Security Related, 10CFR2.390(d)(1)
3	3.8.4-106	3.8.4	3.8.4-20	Security Related, 10CFR2.390(d)(1)
3	3.8.4-110	3.8.4	3.8.4-24	Security Related, 10CFR2.390(d)(1)
3	3.8.4-114	3.8.4	3.8.4-28	Security Related, 10CFR2.390(d)(1)
3	3.8.4-121	3.8.4	3.8.4-35	Security Related, 10CFR2.390(d)(1)
3	3.8.4-122	3.8.4	3.8.4-36	Security Related, 10CFR2.390(d)(1)
3	3.8.4-123	3.8.4	3.8.4-36a	Security Related, 10CFR2.390(d)(1)
3	3.8.4-126	3.8.4	3.8.4-37	Security Related, 10CFR2.390(d)(1)
3	3.8.4-143	3.8.4	3.8.4-50	Security Related, 10CFR2.390(d)(1)
3	3.8.4-144	3.8.4	3.8.4-51	Security Related, 10CFR2.390(d)(1)
3	3.8.6-19	3.8.6	3.8.6-7	Security Related, 10CFR2.390(d)(1)
6	6.2.2-14	6.2.2	6.2.2-4	Security Related, 10CFR2.390(d)(1)
6	6.2.3-64	6.2.3	6.2.3-4	Security Related, 10CFR2.390(d)(1)
6	6.2.3-65	6.2.3	6.2.3-5	Security Related, 10CFR2.390(d)(1)
6	6.2.3-66	6.2.3	6.2.3-6	Security Related, 10CFR2.390(d)(1)
6	6.2.3-67	6.2.3	6.2.3-7	Security Related, 10CFR2.390(d)(1)

ENCLOSURE 4

WATTS BAR NUCLEAR PLANT UNIT 2 FSAR AMENDMENT 93 Summary of Redacted Pages

CHAPTER	PAGE(s)	SECTION No.	FIGURE No.	BASIS FOR REDACTION
6	6.2.3-68	6.2.3	6.2.3-8	Security Related, 10CFR2.390(d)(1)
6	6.2.3-69	6.2.3	6.2.3-9	Security Related, 10CFR2.390(d)(1)
6	6.2.3-70	6.2.3	6.2.3-10	Security Related, 10CFR2.390(d)(1)
6	6.2.3-79	6.2.3	6.2.3-18	Security Related, 10CFR2.390(d)(1)
6	6.2.3-80	6.2.3	6.2.3-19	Security Related, 10CFR2.390(d)(1)
8	8.1-23	8.1	8.1-1	Security Related, 10CFR2.390(d)(1)
8	8.2-13 and 8.2-14	8.2		Security Related, 10CFR2.390(d)(1)
8	8.2-30	8.2	8.2-3	Security Related, 10CFR2.390(d)(1)
8	8.2-31	8.2	8.2-4	Security Related, 10CFR2.390(d)(1)
8	8.2-44	8.2	8.2-11	Security Related, 10CFR2.390(d)(1)
8	8.3-99	8.3	8.3-1	Security Related, 10CFR2.390(d)(1)
8	8.3-101	8.3	8.3-2	Security Related, 10CFR2.390(d)(1)
8	8.3-102	8.3	8.3-3	Security Related, 10CFR2.390(d)(1)
8	8.3-104	8.3	8.3-4b	Security Related, 10CFR2.390(d)(1)
8	8.3-207	8.3	8.3-46	Security Related, 10CFR2.390(d)(1)
8	8.3-220	8.3	8.3-59	Security Related, 10CFR2.390(d)(1)
9	9.2-208	9.2	9.2-40	Security Related, 10CFR2.390(d)(1)
9	9.4-286	9.4	9.4-21	Security Related, 10CFR2.390(d)(1)
9	9.4-290	9.4	9.4-22c	Security Related, 10CFR2.390(d)(1)
9	9.4-291	9.4	9.4-23	Security Related, 10CFR2.390(d)(1)
9	9.4-292	9.4	9.4-24	Security Related, 10CFR2.390(d)(1)
9	9.5-43	9.5	9.5-16	Security Related, 10CFR2.390(d)(1)
9	9.5-44	9.5	9.5-17	Security Related, 10CFR2.390(d)(1)
12	12.3-41	12.3	12.3-1	Security Related, 10CFR2.390(d)(1)
12	12.3-42	12.3	12.3-2	Security Related, 10CFR2.390(d)(1)
12	12.3-43	12.3	12.3-3	Security Related, 10CFR2.390(d)(1)
12	12.3-44	12.3	12.3-4	Security Related, 10CFR2.390(d)(1)
12	12.3-45	12.3	12.3-5	Security Related, 10CFR2.390(d)(1)
12	12.3-46	12.3	12.3-6	Security Related, 10CFR2.390(d)(1)
12	12.3-47	12.3	12.3-7	Security Related, 10CFR2.390(d)(1)
12	12.3-48	12.3	12.3-8	Security Related, 10CFR2.390(d)(1)
12	12.3-49	12.3	12.3-9	Security Related, 10CFR2.390(d)(1)
12	12.3-50	12.3	12.3-10	Security Related, 10CFR2.390(d)(1)
12	12.3-51	12.3	12.3-11	Security Related, 10CFR2.390(d)(1)
12	12.3-52	12.3	12.3-12	Security Related, 10CFR2.390(d)(1)
12	12.3-53	12.3	12.3-13	Security Related, 10CFR2.390(d)(1)
12	12.3-54	12.3	12.3-14	Security Related, 10CFR2.390(d)(1)
12	12.3-55	12.3	12.3-15	Security Related, 10CFR2.390(d)(1)
12	12.3-56	12.3	12.3-16	Security Related, 10CFR2.390(d)(1)
12	12.3-57	12.3	12.3-17	Security Related, 10CFR2.390(d)(1)
12	12.3-58	12.3	12.3-18	Security Related, 10CFR2.390(d)(1)
12	12.3-59	12.3	12.3-19	Security Related, 10CFR2.390(d)(1)
12	12.4-7	12.4	12.4-1	Security Related, 10CFR2.390(d)(1)