Attachment 1 to be withheld from Public Disclosure Under 10 CFR 2.390. When separated from this Enclosure, this letter is decontrolled.

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

June 3, 2011

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
Washington, D.C. 20555-0001

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

Subject: **WATTS BAR NUCLEAR PLANT (WBN) – UNIT 2 – FINAL SAFETY ANALYSIS REPORT (FSAR), AMENDMENT 104**

References:
1. TVA letter to NRC dated March 15, 2011, "Watts Bar Nuclear Plant (WBN) - Unit 2 - Final Safety Analysis Report Amendment 103"
2. TVA letter to NRC dated April 6, 2011, "Watts Bar Nuclear Plant (WBN) Unit 2 – Safety Evaluation Report Supplement 22 (SSER22) - Response to NRC Required Action Items"
3. TVA letter to NRC dated May 20, 2011, "Watts Bar Nuclear Plant (WBN) Unit 2 - Response to Final Safety Analysis Report (FSAR), Chapter 11 and Final Supplemental Environmental Impact Statement (FSEIS) Request for Additional Information"

This letter transmits WBN Unit 2 FSAR Amendment 104 (A104), which reflects changes made since the issuance of Amendment 103 on March 15, 2011 (Reference 1).

In Reference 2 (Enclosure 1, Item 36), TVA committed to update Table 3.2-2 "to note that TVA Class G and H piping within the SGB System exists downstream of the safety-related containment isolation valves." TVA later discovered that the same information intended to be placed into Table 3.2-2 was already provided in Table 3.2-2a. Therefore, this change to Table 3.2-2 is no longer needed and thus this letter closes the commitment in Reference 2. A104 also includes changes to FSAR Chapter 11 previously proposed via Reference 3.

Enclosure 1 contains a summary listing of FSAR sections and corresponding Unit 2 change package numbers associated with the A104 FSAR changes. Most of these changes were the result of resolutions to NRC Requests for Additional Information.

A053
NRR

FSAR A104 is contained on the enclosed Optical Storage Media (OSM #1) (Attachment 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 (Attachment 2), which is suitable for public disclosure. Enclosure 2 contains a listing of the FSAR pages that have been redacted. Enclosure 3 lists the files and file sizes on the security-related OSM (OSM #1), and Enclosure 4 lists the files and file sizes on the publicly available OSM (OSM #2).

There are no new commitments made in this letter. This letter does not close any "Generic Communications." If you have any questions, please contact Bill Crouch at (423) 365-2004.

I declare under the penalty of perjury that the foregoing is true and correct. Executed on the 3rd day of June, 2011.

Respectfully,

David Stinson
Watts Bar Unit 2 Vice President

Enclosures:

1. WBN Unit 2 FSAR A104, "Summary Listing of A104 FSAR Changes"
2. WBN Unit 2 FSAR A104, "Summary of Redacted Pages"
3. WBN Unit 2 FSAR A104, "List of files and file sizes on the security-related OSM (OSM #1)"
4. WBN Unit 2 FSAR A104, "List of files and file sizes on the publicly available OSM (OSM #2)"

Attachments:

1. OSM #1: WBN Unit 2 FSAR Amendment 104 - Security-Related Information - Withhold Under 10 CFR 2.390
2. OSM #2: WBN Unit 2 FSAR Amendment 104 - Publicly Available Version

cc: See Page 3

cc (Enclosures):

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 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
1.	Table 3.2-7	In Table 3.2-7, page 16 of 16, change N-520-2 to N-520-3.	2-104-01
2.	Section 6.2.6	1. Added the words "(References 1, 2 and 3)" to the end of the first sentence of the last paragraph on FSAR page 6.2.6-2. 2. Deleted the phrase "as specified in 10 CFR 50, Appendix J" from the end of the second sentence of Exemption 2 on FSAR Page 6.2.6-3. 3. Deleted the phrase,"as specified in 10 CFR 50, Appendix J" from the end of the second sentence of Exemption 3 on FSAR Page 6.2.6-3. 4. Deleted the phrase "as specified in 10 CFR 50, Appendix J" from the end of the second sentence of Exemption 5 on FSAR Page 6.2.6-4. 5. Deleted the word "None" and added the following three references to the bottom of page 6.2.6-6 numbered as 1 through 3: • Title 10, Code of Federal Regulations, Part 50, Appendix J, Option B, "Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors - Performance-Based Requirement." • Regulatory Guide 1.163, "Performance-Based Containment Leak-Test Program," September 1995. • NEI 94-01, Revision 0, "Industry Guideline for Implementing Performance-Based Option of 10 CFR Part 50, Appendix J."	2-104-02
3.	Sections 6.2.1 6.8.3	1. Changed the design basis blowdown energy identified in assumption (1) of FSAR Section 6.2.1.1.1 from 315.1 x 10^6 to 317.3 X 10^6. 2. Changed the design basis blowdown mass identified in assumption (1) of FSAR Section 6.2.1.1.1 from 499.6 x 10^3 to 502.7 X 10^3. 3. Changed the maximum calculated containment pressure and the time it occurs identified in FSAR Section 6.2.1.3.3 (FSAR page 6.2.1-8) from 10.23 psig at 7172.8 seconds to 12.47 psig at 4346 seconds. 4. Revised the values and footnotes provided on FSAR Table 6.2.1-3 for the Energy Balances. Also, revised the time for the Approximate End of Reflood column on FSAR Table 6.2.1-3 from 238.369 seconds to 241.3 seconds.	2-104-03

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
3. (cont.)	Sections 6.2.1 6.8.3	5. Revised the values and footnotes provided on FSAR Table 6.2.1-4 for the Energy Balances. Also, revised the column title and the time for the Approximate Ice Meltout Time column from 4077.94 seconds to 3009.3 seconds. Additionally, revised the time for the Approximate Time of Peak Pressure column from 7172.82 seconds to 4346 seconds. 6. Replaced the values included on FSAR Table 6.2.1-16 with the values. 7. Replaced the values included on FSAR Table 6.2.1-17 with the values. 8. Replaced FSAR Table 6.2.1-18 with new values. 9. Replaced the values included on FSAR Table 6.2.1-19 with new values. 10. Revised the times for Accumulator Flow Starts, End of Blowdown, Accumulators Empty, and End of Reflood on FSAR Table 6.2.1-25. 11. Replaced the values included on FSAR Table 6.2.1-26a with new values. 12. Replaced the values included on FSAR Table 6.2.1-26b with new values. 13. Replaced FSAR Figures 6.2.1-1, 6.2.1-2a, 6.2.1-2b, 6.2.1-3, 6.2.1-4 and 6.2.1-4a with new figures. 14. Changed the peak containment pressure and time of peak pressure from 10.23 psig at approximately 7172.8 seconds to 12.47 psig at approximately 4346 seconds in the first paragraph of FSAR Section 6.8.3.	2-104-03

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
4.	Sections 10.3.5.3 10.4.6.1	1 FSAR Section 10.3.5.3 (2) Cold Shutdown/Wet Layup, added to end of paragraph to read; *"or completely cover the steam generator tubes with a greater than 25 ppm hydrazine layup solution."* 2 FSAR Section 10.4.6.1 Design Bases - Power Conversion, added to after the last paragraph a new paragraph to read: *"The functions of the condensate startup (Red Iron) filters are used during startup and as required for removal of hematite and other corrosion products from the condensate system. These startup filters (12 filters total) are essential to achieve rapid cleanup of the condensate system. Range of flow per filter is 650 gpm to 750 gpm. Maximum design pressure for the Condensate Startup Filters is 300 psig."*	2-104-04
5.	Sections 1.2.2.7 3.10.4.1 8.3 Tables 3.2-3 3.10-1 8.3-10	1. For Section 1.2.2.7, changed "six" to "eight" and replaced "two spares" with "two pairs of spares" in the last paragraph of the Page 1.2-6 (A103). 2. In Table 3.2-3, sheet 3 of 4, for the 125 VDC Vital Battery Charges changed "6" to "9," for Chgrs, replaced "Spare" with "V," for Chgr, replaced "6-S and 7-S" with "6-S, 7-S, 8-S, and 9-S," for the Transfer switches, replaced "6DC-8" with "68DC1-S & 68DC2-S," replaced "7DC-S" with "79DC1-S & 79DC2-S," replaced "6AC-S" with "68AC1-S & 68AC2-S," and replaced "7AC-S" with 79AC1-S & 79AC2-S." 3. For Section 3.10.4.1, in the 125VDC Class 1E System listing, inserted a new line item entitled, "Spare Transfer Switches" with contract No. "00072332"; and for Battery Chargers, replaced existing contract No. "74C8-85251" with "00072332." 4. For Table 3.10-1, inserted line item for "Spare Transfer Switches, A-772, 00072332, AMETEK SCI, IEEE 344-1975, Test, Multifrequency, Random Biaxial, Wyle Lab." 5. For Section 8.3.2.1.1, replaced "six" with "eight" and "two spare chargers" with "two pairs of spare chargers," in the second paragraph.	2-104-05

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
5. (cont.)	Sections 1.2.2.7 3.10.4.1 8.3 Tables 3.2-3 3.10-1 8.3-10	6. For Section 8.3.2.1.1 (page 8.3-54 - A103), replaced the phrase, "a spare (backup) charger for use upon loss of the normal charger" with "two spare (backup) chargers for use upon loss of the normal charger. Each pair of spare chargers are mechanically interlocked such that only one charger in each pair can be utilized at one time," in the first paragraph at top of page. 7. Replaced the phrase, "One spare charger is," with "Two spare chargers are," in the second paragraph on Page 8.3-55 (A103). 8. Inserted "pairs of" in the second paragraph on Page 8.3-58 (A103). 9. Replaced "one" with "two" in the second paragraph on Page 8.3-58 (A103). 10. Replaced "VI, and VII" with "6-S, 7-S, 8-S, and 9-S" in the fourth paragraph on Page 8.3-58 (A103). 11. Replaced "300" with "200" and "2.0" with "1.0" in the fifth paragraph on Page 8.3-58 (A103). 12. Inserted a new item 7 that reads as follows: "(7) high voltage cutout function that will trip the output breaker in the event there is an overvoltage condition," into the next to last paragraph on Page 8.3-58 (A103). 13. In the last paragraph on Page 8.3-61 (A103), replaced "six" with "eight", "two spare" with "two pairs of spare," and "A manually operated switch transfers," with "Manually operated switches transfer." 14. Replaced on Page 8.3-65 (A103) that reads: "The tests for vital battery boards I, II, III, and IV and charger I, II, III, and IV were performed in conformance with IEEE Standard 344-1971, Guide for Seismic Qualification of Class 1E Equipment. [Charger V is Seismic Category I(L)]" with "The tests for Vital Battery Boards I, II, III, IV were performed in conformance to IEEE Standard 344-1971, Guide for Seismic Qualification of Class 1E Equipment. Chargers I, II, III, and IV (including spare chargers 6-S, 7-S, 8-S, and 9-S) were tested to IEEE Standard 344-1975. [Although charger V is Seismic Category I(L), it has been procured and tested in compliance with IEEE Standard 344-1975 to reduce the spare parts inventory]."	2-104-05

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
5. (cont.)	Sections 1.2.2.7 3.10.4.1 8.3 Tables 3.2-3 3.10-1 8.3-10	15. For Table 8.3-10, for 125V Spare Bat Chgr 6, added "& 8****", for 125V Spare Bat Chgr 7, added "& 9****" 16. For Table 8.3-10, replaced "Charger DC (6-S)" with "Chargers DC (6-S & 8-S)." 17. For Table 8.3-10, replaced "Charger DC (7-S)" with "Chargers DC (7-S & 9-S)." 18. For Table 8.3-10, inserted new note as follows: "****These switch panels contain a second manually interlocked transfer switch to select the charger being utilized. Corrected alignment both AC and DC transfer switch panels is required for proper operation of the utilized charger."	2-104-05
6.	Tables 6.2.4-2 6.2.6-4	1. On FSAR Table 6.2.4-2, Page 6 of 6, changed the "Penetrating Line Name" for Penetration Number X-114 from "Ice Condenser (to Glycol Cool FL Pumps)" to "Ice Condenser (from Glycol Floor Cooling Coils)." 2. On FSAR Table 6.2.4-2, Page 6 of 6, changed the "Penetrating Line Name" for Penetration Number X-115 from "Ice Condenser (to Glycol Cool FL Pumps)" to "Ice Condenser (to Glycol Floor Cooling Coils)." 3. On FSAR Table 6.2.6-4, Page 7 of 7 (A103), changed the status of penetration X-47B from "Same as X-47A" to "Glycol cooling return from air handling units in ice condenser required to ensure ice condition is maintained." 4. On FSAR Table 6.2.6-4, Page 7 of 7 (A103), changed the status of penetration X-114 from "Glycol return from air handling units required to ensure ice condition is maintained." to "Glycol return line from floor cooling coils required to ensure ice condition is maintained." 5. On FSAR Table 6.2.6-4, Page 7 of 7 (A103), changed the status of penetration X-115 from "Same as X-114" to "Glycol supply line to floor cooling coils required to ensure ice condition is maintained."	2-104-06

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
7.	Section 9.2 Tables 3.9-25 3.9-26	1. On FSAR Table 3.9-25, entitled "Valves Required To Be Active For Design Basis Events," Sheet 14 of 23, added valves FCV-67-66 and FCV-67-67. 2. On FSAR Table 3.9-25, entitled "Valves Required To Be Active For Design Basis Events," Sheet 15 of 23, added valve 1-FCV-67-146. 3. On FSAR Table 3.9-26, entitled "Inservice Inspection Category Valves," Sheet 3 of 6, added valves FCV-67-66, FCV-67-67 and 1-FCV-67-146. 4. On FSAR page 9.2-1, removed the asterisks from Item 3 in Section 9.2.1.2 5. On FSAR page 9.2-10, revised the statements that indicate that ERCW piping to the diesel generators is treated during periods of biocide injection by providing continuous flow to the diesel generators. The statements were changed to indicate that ERCW piping to the diesel generators is treated during periods of train specific biocide injection by opening the associated diesel generator supply valve.	2-104-07
8.	Section 15.2-14	1. Revised the numbers and the titles for FSAR Figures 15.2-42a, 15.2-42b and 15.2-42c on the List of Figures for FSAR Chapter 15. 2. Revised the initial NSSS thermal power output assumed for inadvertent operation of ECCS during power operation on FSAR Table 15.1-2, Page 2 of 4. 3. In FSAR Section 15.2.14.1, removed the asterisk from the boric acid concentration and the associated note. Also remove the extra space in the last sentence of the third paragraph. 4. In FSAR Section 15.2.14.2, revised the discussion included under Method of Analysis; Assumptions 2, 4 and 10; and the discussion included under Results and Pressurizer Filling Case.	2-104-08

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
8. (cont.)	Section 15.2-14	5. In FSAR Section 15.2.14.3, revised the second paragraph. 6. On FSAR Table 15.2-1, deleted events, "Pressurizer Fills," and "Maximum RCS Pressure Occurs," and the associated time under the "Pressurizer Filling Case." Also, added an event entitled "Maximum Pressurizer Water Level Occurs," with the associated time of 667 seconds. 7. Replaced FSAR Figures 15.2.42a, 15.2.42b and 15.2.42c with new figures.	2-104-08
9.	Section 15.2-15	1. Added new FSAR Section 15.2.15 entitled "Chemical and Volume Control System Malfunction During Power Operation." 2. Added new Table 15.2-6, entitled "Time Sequence of Events for CVCS Malfunction." 3. Added new Figure 15.2-44, entitled "CVCS Malfunction Nuclear Power vs. Time." 4. Added new Figure 15.2-45, entitled "CVCS Malfunction RCS Average Temperature Versus Time." 5. Added new Figure 15.2-46, entitled "CVCS Malfunction Pressurizer Pressure Versus Time." 6 Added new Figure 15.2-47, entitled "CVCS Malfunction Pressurizer Water Volume Versus Time."	2-104-09

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
10.	Sections 2.4.3.3 2.4.3.4 2.4.4.1	1. For Section 2.4.3.3, Paragraph 5, added a description of sand baskets installed at Fort Loudoun, Cherokee, Tellico and Watts Bar dams (see References 1 through 8). 2. For Section 2.4.3.4, Concrete Section Analysis, replaced text originally duplicated from Unit 1 which did not reflect the updated PMF analysis and the resulting review of the revised headwater/tailwater conditions at affected dam (see Reference 9). 3. For Section 2.4.3.4, Spillway Gates, replaced text originally duplicated from Unit 1 which did not reflect the updated PMF analysis and the resulting review of the revised headwater conditions at affected dams with Taintor Radial Gates; Vertical Lift gates at Chatuge, Chickamauga, Nottely and Drum Gates at Norris and Valve Control at South Holston and Watauga have not been historically addressed so information related to these gates/devices is not added to the text (see References 5-8 and 10-20). 4. For Section 2.4.4.1, Dam Failure Permutations, Embankment, Paragraph 4, added a description of sand basket seismic analysis installed at Fort Loudoun (see References 21 and 22). 5. For Section 2.4.4.1, Dam Failure Permutations, SSE Concurrent with 25 Year Flood, Multiple Failures, Paragraph 3, added a description of the utilization of sand baskets for the Norris, Cherokee, Douglas and Tellico Dam failure combination in an SSE coincident with a 25-year flood.	2-104-10
11.	Figures 2.4-69 2.4-72 2.4-74 2.4-78 2.4-87 2.4-89	Watts Bar FSAR Figures 2.4-69, 72, 74, 78, 87 and 89 revised to note the increased height of the embankments at Cherokee, Fort Loudoun, Tellico and Watts Bar dams.	2-104-11
12.	Section 12.2.1.3 Table 12.2-13	1 Revised FSAR Chapter 12 Table of Contents and List of Tables to add FSAR Table 12.2-13. 2. Revised FSAR Section 12.2.1.3 to describe added Table 12.2-13. 3. Added Table 12.2-13.	2-104-12

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
13.	Sections 15.5.1 15.5.4 15.5.5 Tables 15.5-1 15.5-2 15.5-14 15.5-16 15.5-17 15.5-18 15.5-19	1. Revised the text for FSAR Sections 15.5.1, 15.5.4, 15.5.5, and associated Tables 15.5-1, 15.5-2, 15.5-14, 15.5-16, 15.5-17, 15.5-18, and 15.5-19 to reflect changes in calculations WBNTSR-008, R13; WBNAPS3-077, R13; and WBNTSR-080, R8. The calculations were changed to support corrective actions in PERs 327968, 327956, and 360041. The revisions include changes in accident source terms, dispersion coefficients, steam mass releases and offsite and main control room accident doses for the Main Steam Line Break, Steam Generator Tube Rupture, and Loss of Off Site Power accidents. 2. Revised the text for FSAR Sections 15.5.1, 15.5.4, 15.5.5, and associated Tables 15.5-1, 15.5-2, 15.5-14, 15.5-16, 15.5-17, 15.5-18, and 15.5-19 to correct minor administrative errors.	2-104-13
14.	Section 3.9.2.4	Incorporate changes to reflect the installation of WINCISE system by revising the following: 1. In Section 3.9.2.4 (page 3.9-10 - A103), changed from "35" to "29" in the last sentence of the first paragraph. 2. In Section 3.9.2.4 (page 3.9-12 - A103), deleted item a entitled, "Thermocouple conduits, clamps and couplings," item e, "Thermocouple conduit gusset and clamp welds (where applicable)"; and Item f, "Thermocouple conduit end plugs Check for tightness," from the Upper Internals list and renumber the remaining list. 3. Replaced Figure 3.9-1 with new figure. 4. On page 7.1-19 (A103) for Item (6), revised WCAP-13869 revision from "2" to "1" and removed "September 1994." 5. On page 7.1-37 (A103) for Item (19), revised WCAP-13869 revision from "2" to "1" and removed "September 1994." In addition, corrected the spelling of Westinghouse.	2-104-14

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
15.	Section 2.3 Tables 2.3-68 2.3-69 2.3-70 2.3-71 2.3-72 2.3-73 2.3-74 2.3-75	FSAR Section 2.3.5 (Page 2.3-17 - A103) 1. Replaced the phrase, "2.3-45 through 2.3-51" with "2.3-68 through 2.3-74" in the first sentence of the second paragraph. New FSAR Tables: 2. Inserted New Tables 2.3-68 through -74, which provide updated "JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED," for the time frame of January 1, 1986, to December 31, 2005. 3. Inserted New Table 2.3-75, which provides, "Average Annual X/Q's and D/Q's out to 50 Miles," data.	2-104-15
16.	Table 5.2-7	Revised Unit 2 FSAR Table 5.2-7, "Reactor Coolant System Design Pressure Setting," to revise PORV's set pressure from 2324 psig to 2335 psig.	2-104-16
17.	Sections 11.1.2 11.1.4 11.2.6.5 11.2.9.1 11.3.7.4 11.3.7.5 11.3.8 11.3.9 11.3.10.1 11.3.10.2 Tables 11.2-5 11.2-5c 11.2-5d 11.3-6 11.3-7c 11.3-8 11.3.9 11.3.10 11.3.11	FSAR Section 11.1.2 1. Clarification was provided to assure that it was clear the Tritium Producing Burnable Absorber Rods are only applied to Watts Bar Unit 1. FSAR Section 11.1.4 1. Clarification was provided to describe when the relief path from steam generator blowdowns to the river via the cooling tower blowdown line is used. The following text was added: "This route is used primarily during periods when there is no significant primary to secondary leakage." FSAR Section 11.2.6.5 and Tables 11.2-5, 11.2-5c, and 11.2-5d. The previous FSAR Section 11.2.6.5 has been replaced with new Sections 11.2.6.5, 11.2.6.5.1 and 11.2.6.5.2. The primary results of these revisions are described below. 1. The text has been revised to describe Table 11.2.5 columns that have been modified. Columns 6, 7 and 8 of this table have been revised. Column 6 provides the liquid radioactive waste source term. Column 7 provides the source term for steam generator blowdown assuming an annual untreated SG Blowdown concentration of 3.65E-5 uCi/cc. Column 8 is the combined source term from Columns 6 and 7. In addition, FSAR Sections 11.2.6.5, 11.2.6.5.1 and 11.2.6.5.2 have been added to assure the text describes the columns in Table 11.2.5.	2-104-17

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
17. (cont.)	Sections 11.1.2 11.1.4 11.2.6.5 11.2.9.1 11.3.7.4 11.3.7.5 11.3.8 11.3.9 11.3.10.1 11.3.10.2 Tables 11.2-5 11.2-5c 11.2-5d 11.3-6 11.3-7c 11.3-8 11.3.9 11.3.10 11.3.11	2. The text has been revised to describe the untreated steam generator blowdown. 3. The text has been revised to discuss Tables 11.2-5a, 11.2-5b, and 11.2-5d. This description includes the steps taken to prevent exceeding 10 CFR Part 20.1302(b) limits. 4. The text has been revised to describe the scenarios associated with the columns presented in Table 11.2-5. 5. The text states the rationale and acceptability of operating without Condensate Demineralizer backwash and blowdown effluent considerations as long as primary-to-secondary leakage is insignificant. 6. Table 11.2-5c has been deleted due to the clarifications incorporated into Section 11.2.6.5. FSAR Section 11.2.9.1 1. This section has been revised to reflect the use of a 1.42 growth factor based on the 2000 census, rather than 1.24 factor based on the 1990 census. FSAR Section 11.3.7.4 1. Revised the table cited from "11.3-10" to "11.3-7." FSAR Section 11.3.7.5 1. Clarification has been added to describe the basis for Table 11.3-7c (the basis is ANSI N18.1-1984). FSAR Table 11.3-6 1. This table has been revised to more accurately describe the use of a continuous filtered containment vent. 2. Item 2 was revised to state that the activities are based on ANSI N18.1-1984. 3. Corrected typographical error from "WCDT" to "WGDT." FSAR Table 11.3-7c 1. The table has been revised to demonstrate it was based on ANSI 18.1-1984 and to delete Tritium Production Core value for H-3 (Unit 1 only).	2-104-17

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
17. (cont.)	Sections 11.1.2 11.1.4 11.2.6.5 11.2.9.1 11.3.7.4 11.3.7.5 11.3.8 11.3.9 11.3.10.1 11.3.10.2 Tables 11.2-5 11.2-5c 11.2-5d 11.3-6 11.3-7c 11.3-8 11.3.9 11.3.10 11.3.11	FSAR Section 11.3.8 1. The description of the Turbine Building vents was revised to describe that non-radioactive ventilation air is exhausted from the Turbine Building rather than "ventilation air". Table 11.3-8 1. TVA verified the validity of the land census used in FSAR Table 11.3-8. 2. The distance, X/Q and D/Q were revised to be consistent with the Terrain Adjustment Factor (TAF) determined using the methodology established in TVA/ONRED/A&WR--87/24. The table provides the TAF used for each point of interest. 3. The Feeding Factors were revised to reflect the growing season. The table provides the Feeding Factor used for each point of interest. FSAR Section 11.3.9 1. The Section has been revised to identify the date of the land-use census that is used and discusses the rationale and assumptions for the information used. 2. The Section was revised to describe that TAFs X/Q and D/Q were calculated for the locations based on the 2007 Land Use Survey and 1984 through 2005 meteorology data. Reference is made to Table 11.3-8 which provides the TAF used for each point of interest. 3. Additional text was added describing that the computer code GELC was used with TAFs to account for recirculation effects.	2-104-17

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
17. (cont.)	Sections 11.1.2 11.1.4 11.2.6.5 11.2.9.1 11.3.7.4 11.3.7.5 11.3.8 11.3.9 11.3.10.1 11.3.10.2 Tables 11.2-5 11.2-5c 11.2-5d 11.3-6 11.3-7c 11.3-8 11.3.9 11.3.10 11.3.11	FSAR Section 11.3.10.1 1. The Section has been revised to identify the feeding factor that TVA has used and to provide the basis for its use. The tables cited at the end of the Section have changed from "11.3-10 and 11.3-11" to "11.3-11 to 11.3-12". New text has been added to the end of the Section describing the vegetable ingestion is the critical pathway. FSAR Section 11.3.10.2 1. The Section has been revised to update the annual total body dose for the population expected to live within a 50 mile radius of Watts Bar in the year 2040. It also revised the total body dose from effluents. Table 11.3.9 1. This Table has been revised to ensure consistency with other sections of the FSAR and the FSEIS. Population dose calculations have been revised. Table 11.3.10 1. The individual doses listed in Table 11.3-10 were determined using each nuclide's total curies/year listed in Table 11.3-7c with Continuous Filtered Containment Vent. 2. The doses were revised to incorporate the latest parameters including use of updated Feeding Factor and TAFs. Table 11.3.11 1. This Table has been revised to describe the results of TVA's estimate of the radiological impact to regional population groups in the year 2040 from the normal operation of the Watts Bar Nuclear Plant.	2-104-17

ENCLOSURE 1

WBN Unit 2 FSAR A104

"Summary Listing of A104 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
18.	Section 9.2.1.2	For the list of components that are supplied with ERCW: 1. Inserted new item at the bottom of list entitled, "Backup cooling water to the CCP 2A-A lube and gear oil cooler via the CCP 2A-A room cooler." 2. Inserted the word, "water" in between "Air Conditioning" and "Chillers," for Item 12 inadvertently dropped in Amendment 95. 3. Reinserted "Spent fuel pool heat exchangers" inadvertently dropped with items when they were renumbered in Amendment 95.	2-104-18 2-95-57

ENCLOSURE 2

WBN Unit 2 FSAR A104
"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	2.4-89	2.4	2.4-2	Security Related, 10CFR2.390(d)(1)
2	2.4-159	2.4	2.4-24	Security Related, 10CFR2.390(d)(1)
2	2.4-162	2.4	2.4-27	Security Related, 10CFR2.390(d)(1)
2	2.4-163	2.4	2.4-28	Security Related, 10CFR2.390(d)(1)
2	2.4-168	2.4	2.4-40a Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-171	2.4	2.4-40b	Security Related, 10CFR2.390(d)(1)
2	2.4-172	2.4	2.4-40c	Security Related, 10CFR2.390(d)(1)
2	2.4-173	2.4	2.4-40d Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-178	2.4	2.4-40f Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-181	2.4	2.4-40g Sheet 1	Security Related, 10CFR2.390(d)(1)
2	2.4-206	2.4	2.4-76	Security Related, 10CFR2.390(d)(1)
2	2.4-209	2.4	2.4-79	Security Related, 10CFR2.390(d)(1)
2	2.4-212	2.4	2.4-82	Security Related, 10CFR2.390(d)(1)
2	2.4-213	2.4	2.4-83	Security Related, 10CFR2.390(d)(1)
2	2.4-218	2.4	2.4-88	Security Related, 10CFR2.390(d)(1)
2	2.4-219	2.4	2.4-89	Security Related, 10CFR2.390(d)(1)
2	2.4-220	2.4	2.4-90	Security Related, 10CFR2.390(d)(1)
2	2.5-471	2.5	2.5-185	Security Related, 10CFR2.390(d)(1)
2	2.5-472	2.5	2.5-185a	Security Related, 10CFR2.390(d)(1)
2	2.5-513	2.5	2.5-225	Security Related, 10CFR2.390(d)(1)
2	2.5-514	2.5	2.5-226	Security Related, 10CFR2.390(d)(1)
2	2.5-515	2.5	2.5-226a	Security Related, 10CFR2.390(d)(1)
2	2.5-575	2.5	2.5-273	Security Related, 10CFR2.390(d)(1)
2	2.5-690	2.5	2.5-358	Security Related, 10CFR2.390(d)(1)

ENCLOSURE 2

WBN Unit 2 FSAR A104
"Summary of Redacted Pages"

Chapter	Page(S)	Section No.	Figure No.	Basis For Redaction
2	2.5-934	2.5	2.5-592	Security Related, 10CFR2.390(d)(1)
3	3.5-53	3.5	3.5-3	Security Related, 10CFR2.390(d)(1)
3	3.5-54	3.5	3.5-4	Security Related, 10CFR2.390(d)(1)
3	3.6-73	3.6	3.6-21	Security Related, 10CFR2.390(d)(1)
3	3.6-74	3.6	3.6-22	Security Related, 10CFR2.390(d)(1)
3	3.6-75	3.6	3.6-23	Security Related, 10CFR2.390(d)(1)
3	3.6-76	3.6	3.6-24	Security Related, 10CFR2.390(d)(1)
3	3.7-217	3.7	3.7-39	Security Related, 10CFR2.390(d)(1)
3	3.7-218	3.7	3.7-40	Security Related, 10CFR2.390(d)(1)
3	3.7-219	3.7	3.7-41	Security Related, 10CFR2.390(d)(1)
3	3.7-222	3.7	3.7-44	Security Related, 10CFR2.390(d)(1)
3	3.8.3-60	3.8.3	3.8.3-6	Security Related, 10CFR2.390(d)(1)
3	3.8.3-61	3.8.3	3.8.3-7	Security Related, 10CFR2.390(d)(1)
3	3.8.4-94	3.8.4	3.8.4-2	Security Related, 10CFR2.390(d)(1)
3	3.8.4-95	3.8.4	3.8.4-3	Security Related, 10CFR2.390(d)(1)
3	3.8.4-96	3.8.4	3.8.4-4	Security Related, 10CFR2.390(d)(1)
3	3.8.4-97	3.8.4	3.8.4-5	Security Related, 10CFR2.390(d)(1)
3	3.8.4-98	3.8.4	3.8.4-6	Security Related, 10CFR2.390(d)(1)
3	3.8.4-101	3.8.4	3.8.4-9	Security Related, 10CFR2.390(d)(1)
3	3.8.4-109	3.8.4	3.8.4-17	Security Related, 10CFR2.390(d)(1)
3	3.8.4-110	3.8.4	3.8.4-18	Security Related, 10CFR2.390(d)(1)
3	3.8.4-111	3.8.4	3.8.4-19	Security Related, 10CFR2.390(d)(1)
3	3.8.4-112	3.8.4	3.8.4-20	Security Related, 10CFR2.390(d)(1)
3	3.8.4-116	3.8.4	3.8.4-24	Security Related, 10CFR2.390(d)(1)
3	3.8.4-120	3.8.4	3.8.4-28	Security Related, 10CFR2.390(d)(1)
3	3.8.4-127	3.8.4	3.8.4-35	Security Related, 10CFR2.390(d)(1)
3	3.8.4-128	3.8.4	3.8.4-36	Security Related, 10CFR2.390(d)(1)
3	3.8.4-129	3.8.4	3.8.4-36a	Security Related, 10CFR2.390(d)(1)
3	3.8.4-132	3.8.4	3.8.4-37	Security Related, 10CFR2.390(d)(1)
3	3.8.4-149	3.8.4	3.8.4-50	Security Related, 10CFR2.390(d)(1)
3	3.8.4-150	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	6.2.2-24	6.2.2	6.2.2-4	Security Related, 10CFR2.390(d)(1)
6	6.2.3-76	6.2.3	6.2.3-4	Security Related, 10CFR2.390(d)(1)
6	6.2.3-77	6.2.3	6.2.3-5	Security Related, 10CFR2.390(d)(1)
6	6.2.3-78	6.2.3	6.2.3-6	Security Related, 10CFR2.390(d)(1)
6	6.2.3-79	6.2.3	6.2.3-7	Security Related, 10CFR2.390(d)(1)
6	6.2.3-80	6.2.3	6.2.3-8	Security Related, 10CFR2.390(d)(1)
6	6.2.3-81	6.2.3	6.2.3-9	Security Related, 10CFR2.390(d)(1)
6	6.2.3-82	6.2.3	6.2.3-10	Security Related, 10CFR2.390(d)(1)
6	6.2.3-92	6.2.3	6.2.3-18	Security Related, 10CFR2.390(d)(1)
6	6.2.3-93	6.2.3	6.2.3-19	Security Related, 10CFR2.390(d)(1)
8	8.1-21	8.1	8.1-1	Security Related, 10CFR2.390(d)(1)
8	8.2-14	8.2	Text only	Security Related, 10CFR2.390(d)(1)
8	8.2-15	8.2	Text only	Security Related, 10CFR2.390(d)(1)

ENCLOSURE 2

WBN Unit 2 FSAR A104
"Summary of Redacted Pages"

Chapter	Page(S)	Section No.	Figure No.	Basis For Redaction
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	8.3-97	8.3	8.3-1	Security Related, 10CFR2.390(d)(1)
8	8.3-99	8.3	8.3-2	Security Related, 10CFR2.390(d)(1)
8	8.3-100	8.3	8.3-3	Security Related, 10CFR2.390(d)(1)
8	8.3-102	8.3	8.3-4b	Security Related, 10CFR2.390(d)(1)
8	8.3-205	8.3	8.3-46	Security Related, 10CFR2.390(d)(1)
8	8.3-218	8.3	8.3-59	Security Related, 10CFR2.390(d)(1)
9	9.2-211	9.2	9.2-40	Security Related, 10CFR2.390(d)(1)
9	9.4-276	9.4	9.4-21	Security Related, 10CFR2.390(d)(1)
9	9.4-280	9.4	9.4-22c	Security Related, 10CFR2.390(d)(1)
9	9.4-281	9.4	9.4-23	Security Related, 10CFR2.390(d)(1)
9	9.4-282	9.4	9.4-24	Security Related, 10CFR2.390(d)(1)
12	12.3-39	12.3	12.3-1	Security Related, 10CFR2.390(d)(1)
12	12.3-40	12.3	12.3-2	Security Related, 10CFR2.390(d)(1)
12	12.3-41	12.3	12.3-3	Security Related, 10CFR2.390(d)(1)
12	12.3-42	12.3	12.3-4	Security Related, 10CFR2.390(d)(1)
12	12.3-43	12.3	12.3-5	Security Related, 10CFR2.390(d)(1)
12	12.3-44	12.3	12.3-6	Security Related, 10CFR2.390(d)(1)
12	12.3-45	12.3	12.3-7	Security Related, 10CFR2.390(d)(1)
12	12.3-46	12.3	12.3-8	Security Related, 10CFR2.390(d)(1)
12	12.3-47	12.3	12.3-9	Security Related, 10CFR2.390(d)(1)
12	12.3-48	12.3	12.3-10	Security Related, 10CFR2.390(d)(1)
12	12.3-49	12.3	12.3-11	Security Related, 10CFR2.390(d)(1)
12	12.3-50	12.3	12.3-12	Security Related, 10CFR2.390(d)(1)
12	12.3-51	12.3	12.3-13	Security Related, 10CFR2.390(d)(1)
12	12.3-52	12.3	12.3-14	Security Related, 10CFR2.390(d)(1)
12	12.3-53	12.3	12.3-15	Security Related, 10CFR2.390(d)(1)
12	12.3-54	12.3	12.3-16	Security Related, 10CFR2.390(d)(1)
12	12.3-55	12.3	12.3-17	Security Related, 10CFR2.390(d)(1)
12	12.4-5	12.4	12.4-1	Security Related, 10CFR2.390(d)(1)

ENCLOSURE 3

WBN Unit 2 FSAR A104
"List Of Files And File Sizes
On The Security-Related OSM (OSM #1)"

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 104 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
TVA_WBN-2_FSAR_Files	
001_TVA_WB_FSAR_TOC.pdf	361,989
002_TVA_WB_FSAR_LRP.pdf	94,749
003_TVA_WB_FSAR_Section_1.pdf	4,631,932
004_TVA_WB_FSAR_Section_2_A.pdf	10,460,967
005_TVA_WB_FSAR_Section_2_B_Part_1_of_2.pdf	44,610,674
005_TVA_WB_FSAR_Section_2_B_Part_2_of_2.pdf	49,572,722
006_TVA_WB_FSAR_Section_2_C.pdf	2,107,382
007_TVA_WB_FSAR_Section_2_D.pdf	31,323,867
008_TVA_WB_FSAR_Section_2_E.pdf	47,312,484
009_TVA_WB_FSAR_Section_3_A.pdf	2,617,354
010_TVA_WB_FSAR_Section_3_B.pdf	7,063,010
011_TVA_WB_FSAR_Section_3_C.pdf	30,016,072
012_TVA_WB_FSAR_Section_3_D.pdf	11,765,449
013_TVA_WB_FSAR_Section_4.pdf	12,544,471
014_TVA_WB_FSAR_Section_5.pdf	9,904,544
015_TVA_WB_FSAR_Section_6_A.pdf	26,018,757
016_TVA_WB_FSAR_Section_6_B.pdf	8,063,667
017_TVA_WB_FSAR_Section_7.pdf	13,985,504
018_TVA_WB_FSAR_Section_8.pdf	29,712,111
019_TVA_WB_FSAR_Section_9_A.pdf	24,504,563
020_TVA_WB_FSAR_Section_9_B.pdf	16,486,274
021_TVA_WB_FSAR_Section_10.pdf	14,150,430
022_TVA_WB_FSAR_Section_11.pdf	3,958,578
023_TVA_WB_FSAR_Section_12.pdf	5,975,010
024_TVA_WB_FSAR_Section_13.pdf	3,236,111
025_TVA_WB_FSAR_Section_14.pdf	1,166,799

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 104 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
026_TVA_WB_FSAR_Section_15.pdf	46,548,252
027_TVA_WB_FSAR_Section_16.pdf	157,966
028_TVA_WB_FSAR_Section_17.pdf	156,649
Total	**458,508,337**
TVA_WBN-2_Oversized_FSAR_Figures	
001_TVA_WB_FSAR_Figure_2.5_3.pdf	1,757,743
002_TVA_WB_FSAR_Figure_2.5_11.pdf	1,689,538
003_TVA_WB_FSAR_Figure_2.5_71.pdf	2,263,087
004_TVA_WB_FSAR_Figure_2.5_222.pdf	909,429
005_TVA_WB_FSAR_Figure_2.5_281_1.pdf	2,155,627
006_TVA_WB_FSAR_Figure_2.5_281_2.pdf	2,117,562
007_TVA_WB_FSAR_Figure_2.5_549_1.pdf	3,600,807
008_TVA_WB_FSAR_Figure_2.5_549_2.pdf	3,989,180
009_TVA_WB_FSAR_Figure_2.5_549_3.pdf	2,863,719
010_TVA_WB_FSAR_Figure_2.5_549_4.pdf	2,809,599
011_TVA_WB_FSAR_Figure_2.5_550.pdf	1,803,985
012_TVA_WB_FSAR_Figure_2.5_551.pdf	1,996,869
013_TVA_WB_FSAR_Figure_2.5_554_1.pdf	3,081,060
014_TVA_WB_FSAR_Figure_2.5_554_2.pdf	1,996,707
015_TVA_WB_FSAR_Figure_2.5_555.pdf	1,993,312
016_TVA_WB_FSAR_Figure_2.5_556.pdf	2,998,087
017_TVA_WB_FSAR_Figure_2.5_571_1.pdf	844,484
018_TVA_WB_FSAR_Figure_2.5_571_2.pdf	3,128,329
019_TVA_WB_FSAR_Figure_2.5_571_3.pdf	3,284,555
020_TVA_WB_FSAR_Figure_2.5_571_4.pdf	2,142,316
021_TVA_WB_FSAR_Figure_2.5_572.pdf	2,196,945

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 104 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
022_TVA_WB_FSAR_Figure_2.5_573.pdf	2,013,286
023_TVA_WB_FSAR_Figure_2.5_576_1.pdf	3,238,525
024_TVA_WB_FSAR_Figure_2.5_576_2.pdf	2,151,750
025_TVA_WB_FSAR_Figure_2.5_577.pdf	2,207,622
026_TVA_WB_FSAR_Figure_2.5_578.pdf	2,080,032
027_TVA_WB_FSAR_Figure_2.5_579.pdf	2,308,985
028_TVA_WB_FSAR_Figure_2.5_583.pdf	2,487,346
029_TVA_WB_FSAR_Figure_2.5_588.pdf	2,528,515
030_TVA_WB_FSAR_Figure_2.5_589.pdf	2,480,438
031_TVA_WB_FSAR_Figure_2.5_594.pdf	13,054,127
032_TVA_WB_FSAR_Figure_2.5_595.pdf	2,323,267
033_TVA_WB_FSAR_Figure_2.5_596.pdf	5,732,107
034_TVA_WB_FSAR_Figure_2.5_597.pdf	1,287,336
035_TVA_WB_FSAR_Figure_2.5_602.pdf	5,549,537
036_TVA_WB_FSAR_Figure_2.5_603.pdf	4,830,835
037_TVA_WB_FSAR_Figure_2.5_604.pdf	6,392,279
038_TVA_WB_FSAR_Figure_2.5_605.pdf	20,823,108
Total	**131,112,035**
TVA_WBN-2_Oversized_FSAR_Table	
001_TVA_WB_FSAR_Table_6.2.4-1.pdf	1,215,571
Total	**1,215,571**

ENCLOSURE 4

WBN Unit 2 FSAR A104
"List Of Files And File Sizes
On The Publicly Available OSM (OSM #2)"

ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 104 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
TVA_WBN-2_FSAR_Files	
001_TVA_WB_FSAR_TOC.pdf	361,989
002_TVA_WB_FSAR_LRP.pdf	94,749
003_TVA_WB_FSAR_Section_1.pdf	***825,347***
004_TVA_WB_FSAR_Section_2_A.pdf	***10,124,439***
005_TVA_WB_FSAR_Section_2_B_Part_1_of_2.pdf	***34,361,906***
005_TVA_WB_FSAR_Section_2_B_Part_2_of_2.pdf	***43,314,619***
006_TVA_WB_FSAR_Section_2_C.pdf	2,107,382
007_TVA_WB_FSAR_Section_2_D.pdf	31,323,867
008_TVA_WB_FSAR_Section_2_E.pdf	***45,933,070***
009_TVA_WB_FSAR_Section_3_A.pdf	***2,325,945***
010_TVA_WB_FSAR_Section_3_B.pdf	***5,661,316***
011_TVA_WB_FSAR_Section_3_C.pdf	***25,183,661***
012_TVA_WB_FSAR_Section_3_D.pdf	***11,496,763***
013_TVA_WB_FSAR_Section_4.pdf	12,544,471
014_TVA_WB_FSAR_Section_5.pdf	9,904,544
015_TVA_WB_FSAR_Section_6_A.pdf	***23,138,284***
016_TVA_WB_FSAR_Section_6_B.pdf	8,063,667
017_TVA_WB_FSAR_Section_7.pdf	13,985,504
018_TVA_WB_FSAR_Section_8.pdf	***26,751,991***
019_TVA_WB_FSAR_Section_9_A.pdf	***24,243,527***
020_TVA_WB_FSAR_Section_9_B.pdf	***15,271,761***
021_TVA_WB_FSAR_Section_10.pdf	14,150,430
022_TVA_WB_FSAR_Section_11.pdf	3,958,578
023_TVA_WB_FSAR_Section_12.pdf	***1,706,993***
024_TVA_WB_FSAR_Section_13.pdf	3,236,111
025_TVA_WB_FSAR_Section_14.pdf	1,166,799

Note: Byte amounts in italics are redacted files.

ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 104 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
026_TVA_WB_FSAR_Section_15.pdf	46,548,252
027_TVA_WB_FSAR_Section_16.pdf	157,966
028_TVA_WB_FSAR_Section_17.pdf	156,649
Total	**418,100,580**
TVA_WBN-2_Oversized_FSAR_Figures	
001_TVA_WB_FSAR_Figure_2.5_3.pdf	1,757,743
002_TVA_WB_FSAR_Figure_2.5_11.pdf	1,689,538
003_TVA_WB_FSAR_Figure_2.5_71.pdf	2,263,087
004_TVA_WB_FSAR_Figure_2.5_222.pdf	909,429
005_TVA_WB_FSAR_Figure_2.5_281_1.pdf	2,155,627
006_TVA_WB_FSAR_Figure_2.5_281_2.pdf	2,117,562
007_TVA_WB_FSAR_Figure_2.5_549_1.pdf	3,600,807
008_TVA_WB_FSAR_Figure_2.5_549_2.pdf	3,989,180
009_TVA_WB_FSAR_Figure_2.5_549_3.pdf	2,863,719
010_TVA_WB_FSAR_Figure_2.5_549_4.pdf	2,809,599
011_TVA_WB_FSAR_Figure_2.5_550.pdf	1,803,985
012_TVA_WB_FSAR_Figure_2.5_551.pdf	1,996,869
013_TVA_WB_FSAR_Figure_2.5_554_1.pdf	3,081,060
014_TVA_WB_FSAR_Figure_2.5_554_2.pdf	1,996,707
015_TVA_WB_FSAR_Figure_2.5_555.pdf	1,993,312
016_TVA_WB_FSAR_Figure_2.5_556.pdf	2,998,087
017_TVA_WB_FSAR_Figure_2.5_571_1.pdf	844,484
018_TVA_WB_FSAR_Figure_2.5_571_2.pdf	3,128,329
019_TVA_WB_FSAR_Figure_2.5_571_3.pdf	3,284,555
020_TVA_WB_FSAR_Figure_2.5_571_4.pdf	2,142,316
021_TVA_WB_FSAR_Figure_2.5_572.pdf	2,196,945

Note: Byte amounts in italics are redacted files.

ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 104 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
022_TVA_WB_FSAR_Figure_2.5_573.pdf	2,013,286
023_TVA_WB_FSAR_Figure_2.5_576_1.pdf	3,238,525
024_TVA_WB_FSAR_Figure_2.5_576_2.pdf	2,151,750
025_TVA_WB_FSAR_Figure_2.5_577.pdf	2,207,622
026_TVA_WB_FSAR_Figure_2.5_578.pdf	2,080,032
027_TVA_WB_FSAR_Figure_2.5_579.pdf	2,308,985
028_TVA_WB_FSAR_Figure_2.5_583.pdf	2,487,346
029_TVA_WB_FSAR_Figure_2.5_588.pdf	2,528,515
030_TVA_WB_FSAR_Figure_2.5_589.pdf	2,480,438
031_TVA_WB_FSAR_Figure_2.5_594.pdf	13,054,127
032_TVA_WB_FSAR_Figure_2.5_595.pdf	2,323,267
033_TVA_WB_FSAR_Figure_2.5_596.pdf	5,732,107
034_TVA_WB_FSAR_Figure_2.5_597.pdf	1,287,336
035_TVA_WB_FSAR_Figure_2.5_602.pdf	5,549,537
036_TVA_WB_FSAR_Figure_2.5_603.pdf	4,830,835
037_TVA_WB_FSAR_Figure_2.5_604.pdf	6,392,279
038_TVA_WB_FSAR_Figure_2.5_605.pdf	20,823,108
Total	**131,112,035**
TVA_WBN-2_Oversized_FSAR_Table	
001_TVA_WB_FSAR_Table_6.2.4-1.pdf	1,215,571
Total	

Note: Byte amounts in italics are redacted files.