



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

December 17, 2010

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 102**

**Reference:** TVA letter to the NRC dated October 29, 2010, "Watts Bar Nuclear Plant (WBN) - Unit 2 - Final Safety Analysis Report Amendment 101"

This letter transmits WBN Unit 2 FSAR Amendment 102 (A102), which reflects changes made since the issuance of Amendment 101 on October 29, 2010 (Reference).

Enclosure 1 contains a summary listing of FSAR sections and corresponding Unit 2 change package numbers associated with the A102 FSAR changes. Most of these changes were the result of resolutions to Requests for Additional Information.

FSAR A102 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 contained in this letter.

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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 December 17, 2010.

Sincerely,



Masoud Bajestani  
Watts Bar Unit 2 Vice President

Enclosures:

1. WBN Unit 2 FSAR A102, "Summary Listing of A102 FSAR Changes"
2. WBN Unit 2 FSAR A102, "Summary of Redacted Pages"
3. WBN Unit 2 FSAR A102, "List of files and file sizes on the security-related OSM (OSM #1)"
4. WBN Unit 2 FSAR A102, "List of files and file sizes on the publicly available OSM (OSM #2)"

Attachments:

1. OSM #1: WBN Unit 2 FSAR Amendment 102 - Security-Related Information - Withhold Under 10 CFR 2.390
2. OSM #2: WBN Unit 2 FSAR Amendment 102 - Publicly Available Version

cc: See Page 3

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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

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bcc (Enclosures):

Stephen Campbell  
U.S. Nuclear Regulatory Commission  
MS 08H4A  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852-2738

Loren R. Plisco, Deputy Regional Administrator for Construction  
U. S. Nuclear Regulatory Commission  
Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE Suite 1200  
Atlanta, Georgia 30303-1257

**ENCLOSURE 1**

**WBN Unit 2 FSAR A102**

**“Summary Listing of A102 FSAR Changes”**

Item No.	Change Area	Change Description	Change Package Number
1	Section 14.2	<ol style="list-style-type: none"> <li>1. For Section 14.2.2.4.1, insert the phrase, “(Unit 1 Design, Unit 2 Design, Reactor and Systems)” in the first sentence and delete the word, “Site” from the same sentence.</li> <li>2. For Section 14.2.2.5.1, Replace the JTG Membership with the following:  PSE Unit 1 Plant Operations Unit 2 Plant Operations Unit 2 Site Quality Assurance Unit 2 Design Engineering  which eliminates the Unit 1 System Engineering position from the membership and replaces the word “Site” with “Design” in the Unit 2 Engineering position.</li> <li>3. For Section 14.2.2.6.1, replace the title of “Site Nuclear Engineering” with “Design Engineering”.</li> </ol>	2-102-01
2	Section 1.9.3	<ol style="list-style-type: none"> <li>1. Change “CAQ” to read “CAP” in Reference 10 of Section 1.9.3.</li> </ol>	2-102-02
3	Section 7.1.2.1.9 7.3.1.1.3 7.6.7 15.2.3.1 Table 7.7-1 Various	<ol style="list-style-type: none"> <li>1. For Section 7.1.2.1.9, replace Trip Setpoint section added in FSAR Amendment 100.</li> <li>2. For Section 7.3.1.1.3, add new section and reference for Analog Instrumentation and renumber succeeding sections.</li> <li>3. For Section 7.6.7,</li> <li>4. Remove references to the Digital Metal Impact Monitoring System (DMIMS-DX™) from the FSAR and replace with Loose Part Monitoring System or LPMS</li> <li>5. Change “training” to “testing”</li> <li>6. Add references 7, 8 and 9 and incorporate into the LPMS descriptive text.</li> <li>7. Identify the LPMS components located inside containment.</li> <li>8. Change minimum frequency response from 5 Hz to 10 Hz</li> </ol>	2-102-03

**ENCLOSURE 1**

**WBN Unit 2 FSAR A102**

**“Summary Listing of A102 FSAR Changes”**

<b>Item No.</b>	<b>Change Area</b>	<b>Change Description</b>	<b>Change Package Number</b>
3. (Cont.)	Section 7.1.2.1.9 7.3.1.1.3 7.6.7 15.2.3.1 Table 7.7-1 Various	<ol style="list-style-type: none"> <li>2. For Section 15.2.3.1, change % and inch references to steps as shown.</li> <li>3. For Table 7.7-1, change C-11 Control Bank D rod position above setpoint logic from 1/1 to 2/2</li> <li>4. For various sections, correct typing errors and add missing section heading.</li> </ol>	2-102-03
4	Section 6.2.3.3.2 Figure 6.2.3-17 Figure 6.2.3-17A	<ol style="list-style-type: none"> <li>1. Section 6.2.3.3.2, page 6.2.3-17: In paragraph (4) change value "957" to read "832."</li> <li>2. Section 6.2.3.3.2, page 6.2.3-18: In third paragraph change value "1.75 inch of water in about 44 seconds" to read "1.52 inch of water in about 50 seconds."</li> <li>3. Figure 6.2.3-17A, page 6.2.3-91: Figure should read "Figure 6.2.3-17"</li> <li>4. Figure 6.2.3-17, page 6.2.3-90: Figure should be replaced with figure provided and changed to read "Figure 6.2.3-17A"</li> </ol>	2-102-04
5	Table 11.2-5 Table 11.2-5a Table 11.2-5b Table 11.2-5c Table 11.2-5d	<p>Made the following editorial changes:</p> <ol style="list-style-type: none"> <li>1. Add explanatory description of the composition of the Unit 2 Table 11.2-5 columns for the release processes for each column.</li> <li>2. Added column numbers identifiers to Table 11.2-5.</li> <li>3. Added note to Tables 11.2-5a, 11.2-5b, 11.2-5c, and 11.2-5d to explain their relationship to Table 11.2-5.</li> </ol>	2-102-05
6	Figure 15.4-12a Figure 15.4-12b Figure 15.4-12c	Replace Figures 15.4.12a, 15.4.12b, and 15.4.12c to eliminate premature truncation of data points	2-102-06

**ENCLOSURE 1**

**WBN Unit 2 FSAR A102**

**“Summary Listing of A102 FSAR Changes”**

<b>Item No.</b>	<b>Change Area</b>	<b>Change Description</b>	<b>Change Package Number</b>
7	Table 14.2-1	Add the phrase, “, Unit 1 and Unit 2 Auxiliary Feedwater Systems in Flood Mode” between the words “building” and “and” of Item 3 under Test Method on sheet 13 of 89 of Table 14.2-1	2-102-07
8	Section 9.2.2 Table 9.2-8	<p>1. On page 9.2-13(A101), make the following changes:</p> <ul style="list-style-type: none"> <li>a. Replace the sentence contained within the paragraph below item iii that reads, “Pump C-S and Heat Exchanger C are aligned with either Unit 1, Train 1B or Unit 2, Train 2 B equipment.” with “Pump C-S and Heat Exchanger C are aligned with both Unit 1, Train 1B and Unit 2, Train 2B equipment.”</li> <li>b. Delete the last sentence of the paragraph below Item iii.</li> <li>c. Replace the second paragraph in its entirety below Item iii with “Train 1A and Train 2A equipment will provide all the cooling water necessary for the safe operation of Units 1 and 2, respectively. Train 1B/2B (common) supplies additional cooling capacity to both units during various operational modes. Train 1B/2B equipment has been sized to maintain plant safety in the event of Train A power loss.”</li> <li>d. In the last paragraph, replace “PAS” with “PASS.”</li> </ul> <p>2. On page 9.2-14 (A101), make the following changes:</p> <ul style="list-style-type: none"> <li>a. Delete the second full sentence at the top of the page that begins “During the Unit 1 only operation...”</li> <li>b. In item 1, replace “will” with “may” in two places.</li> <li>c. In item 2, insert the phrase, “If Train A electric power is lost,” before “CCS Pump 1B-B...”</li> <li>d. Delete the last sentence of Item 2.</li> <li>e. Delete the phrases, “one and” and “C heat exchanger” from Item 3.</li> </ul>	2-102-08

**ENCLOSURE 1**

**WBN Unit 2 FSAR A102**

**“Summary Listing of A102 FSAR Changes”**

Item No.	Change Area	Change Description	Change Package Number
<p align="center"><b>8 (Cont.)</b></p>	<p align="center">Section 9.2.2 Table 9.2-8</p>	<p>f Insert the phrase, “or Unit 2 Train A” between “A” and “header” within the first sentence of Item 3.</p> <p>3. On page 9.2-18 (A101), replace the first sentence of first paragraph under Section 9.2.2.4 with the following: “The CCS is comprised of two independent trains (A&amp;B) where the CCS Train B header and Heat Exchanger C serve both the Unit 1 and Unit 2 Train B engineered safeguards equipment. The Unit 1 Train A header and Heat Exchanger A serve Unit 1 miscellaneous equipment and Unit 1 Train A engineered safeguards equipment. The Unit 2 Train A header and Heat Exchanger B serve Unit 2 miscellaneous equipment and Unit 2 Train A engineered safeguards equipment.”</p> <p>4. On Page 9.2-19 (A101), insert the following paragraph just prior to Section 9.2.2.5 header: “A calculation has been performed that demonstrates there is sufficient ERCW and CCS capability to meet the GDC 5 requirement to bring the non-accident unit to cold shutdown. This calculation shows the non-accident unit can reach cold shutdown within 72 hours from entry into the Hot Standby mode. This cooldown analysis is performed with CCS carrying all required loads on both the accident and (later in the event) the non-accident unit, including the Spent Fuel Pool. The Core Decay Heat used in the calculation is consistent with the decay heat used in normal cooldown analyses. The analysis is conservative in that, once RHR is placed in-service, credit for decay heat removal by the Steam Generators/Auxiliary Feedwater System is no longer taken.”</p> <p>5. On page 9.2-20, delete the phrase “on Unit 1” in the last sentence of the last paragraph.</p> <p>6. In Table 9.2-8, delete the phrase “Unit 1” and the extraneous “m” from the “Heat transferred...” item under the heading “Heat Exchangers”.</p>	<p align="center">2-102-08</p>



**ENCLOSURE 1**

**WBN Unit 2 FSAR A102**

**“Summary Listing of A102 FSAR Changes”**

<b>Item No.</b>	<b>Change Area</b>	<b>Change Description</b>	<b>Change Package Number</b>
9	Table 9.2-9	<p>For the items list below in Table 9.2-9, make the following corrections:</p> <ol style="list-style-type: none"> <li>1. For A-7, delete “A” from X-29A in the Function column.</li> <li>2. For 2A-7, replace “29” with “89” in the Component column.</li> <li>3. For 2A-7, replace “50A” with “29”, in the Function column.</li> <li>4. For C-6, replace “continure” with “continue” in the Effect on Plant column.</li> <li>5. For 2C-6A, replace “0” with “2” in the Effect on Plant column to make “0-ISV-70-505A” show as “2-ISV-70-505A”</li> <li>6. For 2E-1, replace “1” with “2” in the component column to make “1-CKV-70-681A” to read “2-CKV-70-681A”</li> <li>7. For F-1, delete 1-LS-70-99 from the Method of Detection.</li> <li>8. For 2F-1, replace “Single Failure” with “make-up to Surge Tank is lost” from the Effect on Plant column.</li> <li>9. For 2F-2, replace “1-CKV-70-541” with “2-CKV-70-541” in the component column.</li> <li>10 For G-6, replace “A” with “B” in the method of detection column.</li> </ol>	2-102-09

**ENCLOSURE 1**

**WBN Unit 2 FSAR A102**

**“Summary Listing of A102 FSAR Changes”**

Item No.	Change Area	Change Description	Change Package Number																																			
10	Section 10.4.9 Table 10.4-6	<ol style="list-style-type: none"> <li>1. For Section 10.4.9.2, delete part of the first sentence and the second sentence that starts, “which share some support facilities such as parts of the Control System. As on all other engineered safety features, the independence of the two systems will be guaranteed in accordance with GDC-5.”</li> <li>2. Insert the following note at the end of Section 10.4.9.2 prior to Section 10.4.9.3 header: “Note: Each Unit’s AFW system is independent of the other with no shared components that are considered important to safety, supporting structure (i.e., the Auxiliary Building) and supporting systems (i.e., ERCW, HPFP, DC power supply and Emergency Diesels) are shared.</li> <li>3. On Page 10.4-36 (A101), delete the phrase, “(based on recent safety reanalysis)” and the sentence, “However, the original 10 minute requirement is maintained which is conservative.” from the next to last paragraph near the bottom of the page.</li> <li>4. For Item 6.1, replace “ANY 1” with “2 MD or TD” in the AFW PUMPS REQ'D column of Table 10.4.6 (Sheet 2 of 2)</li> </ol>	2-102-10																																			
11	Table 15.5-14	<p>Replace Table 15.5-14 containing Dilution Factor data with the following:</p> <table border="1" data-bbox="532 1312 1253 1549"> <thead> <tr> <th colspan="5">DILUTION FACTOR (sec/m<sup>3</sup>)</th> </tr> <tr> <th>Time Period</th> <th>LOCA/ FHA</th> <th>SGTR/MSLB/ LOSS OF A/C</th> <th>MSLB</th> <th>WGDT</th> </tr> </thead> <tbody> <tr> <td>0-2</td> <td>1.12E-03</td> <td>4.03E-03</td> <td>2.87E-03</td> <td>2.52E-03</td> </tr> <tr> <td>2-8</td> <td>9.78E-04</td> <td>3.35E-03</td> <td>2.46E-03</td> <td>1.57E-03</td> </tr> <tr> <td>8-24</td> <td>1.21E-04</td> <td>2.27E-04</td> <td>2.27E-04</td> <td>6.71E-04</td> </tr> <tr> <td>24-96</td> <td>9.36E-05</td> <td>1.81E-04</td> <td>1.81E-04</td> <td>4.99E-04</td> </tr> <tr> <td>96-720</td> <td>7.77E-05</td> <td>1.45E-04</td> <td>1.45E-04</td> <td>3.79E-04</td> </tr> </tbody> </table>	DILUTION FACTOR (sec/m <sup>3</sup> )					Time Period	LOCA/ FHA	SGTR/MSLB/ LOSS OF A/C	MSLB	WGDT	0-2	1.12E-03	4.03E-03	2.87E-03	2.52E-03	2-8	9.78E-04	3.35E-03	2.46E-03	1.57E-03	8-24	1.21E-04	2.27E-04	2.27E-04	6.71E-04	24-96	9.36E-05	1.81E-04	1.81E-04	4.99E-04	96-720	7.77E-05	1.45E-04	1.45E-04	3.79E-04	2-102-11
DILUTION FACTOR (sec/m <sup>3</sup> )																																						
Time Period	LOCA/ FHA	SGTR/MSLB/ LOSS OF A/C	MSLB	WGDT																																		
0-2	1.12E-03	4.03E-03	2.87E-03	2.52E-03																																		
2-8	9.78E-04	3.35E-03	2.46E-03	1.57E-03																																		
8-24	1.21E-04	2.27E-04	2.27E-04	6.71E-04																																		
24-96	9.36E-05	1.81E-04	1.81E-04	4.99E-04																																		
96-720	7.77E-05	1.45E-04	1.45E-04	3.79E-04																																		
12	Table 6.2.4-1	On Table 6.2.4-1, revise the sketch for containment penetration X-15 to clearly show the penetration configuration including the addition of a drain valve and pipe cap.	2-102-12																																			

**ENCLOSURE 2**

**WBN Unit 2 FSAR A102  
"Summary of Redacted Pages"**

<b>Chapter</b>	<b>Page(S)</b>	<b>Section No.</b>	<b>Figure No.</b>	<b>Basis For Redaction</b>
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)
2	2.5-934	2.5	2.5-592	Security Related, 10CFR2.390(d)(1)

**ENCLOSURE 2**

**WBN Unit 2 FSAR A102  
"Summary of Redacted Pages"**

<b>Chapter</b>	<b>Page(S)</b>	<b>Section No.</b>	<b>Figure No.</b>	<b>Basis For Redaction</b>
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)
8	8.2-30	8.2	8.2-3	Security Related, 10CFR2.390(d)(1)

**ENCLOSURE 2**

**WBN Unit 2 FSAR A102  
"Summary of Redacted Pages"**

<b>Chapter</b>	<b>Page(S)</b>	<b>Section No.</b>	<b>Figure No.</b>	<b>Basis For Redaction</b>
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	9.2-208	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 A102  
“List Of Files And File Sizes  
On The Security-Related OSM (OSM #1)”**

**ENCLOSURE 3**  
**TVA Watts Bar Nuclear Plant Unit 2**  
**FSAR Amendment 101 - List of Files on *Security-Related OSM***

File Name	File Size - Bytes
<b>TVA_WBN-2_FSAR_Files</b>	
001_TVA_WB_FSAR_TOC.pdf	369,703
002_TVA_WB_FSAR_LEP.pdf	87,693
003_TVA_WB_FSAR_Section_1.pdf	4,633,233
004_TVA_WB_FSAR_Section_2_A.pdf	10,259,598
005_TVA_WB_FSAR_Section_2_B_Part_1_of_2.pdf	40,496,545
005_TVA_WB_FSAR_Section_2_B_Part_2_of_2.pdf	11,272,396
006_TVA_WB_FSAR_Section_2_C.pdf	2,107,383
007_TVA_WB_FSAR_Section_2_D.pdf	31,323,847
008_TVA_WB_FSAR_Section_2_E.pdf	47,312,465
009_TVA_WB_FSAR_Section_3_A.pdf	2,621,954
010_TVA_WB_FSAR_Section_3_B.pdf	7,062,990
011_TVA_WB_FSAR_Section_3_C.pdf	30,016,509
012_TVA_WB_FSAR_Section_3_D.pdf	6,016,438
013_TVA_WB_FSAR_Section_4.pdf	12,552,729
014_TVA_WB_FSAR_Section_5.pdf	9,914,639
015_TVA_WB_FSAR_Section_6_A.pdf	22,843,031
016_TVA_WB_FSAR_Section_6_B.pdf	8,064,076
017_TVA_WB_FSAR_Section_7.pdf	13,816,877
018_TVA_WB_FSAR_Section_8.pdf	29,723,700
019_TVA_WB_FSAR_Section_9_A.pdf	24,490,333
020_TVA_WB_FSAR_Section_9_B.pdf	16,485,415
021_TVA_WB_FSAR_Section_10.pdf	14,391,918
022_TVA_WB_FSAR_Section_11.pdf	4,254,156
023_TVA_WB_FSAR_Section_12.pdf	5,973,753
024_TVA_WB_FSAR_Section_13.pdf	3,237,977
025_TVA_WB_FSAR_Section_14.pdf	1,360,063

<b>File Name</b>	<b>File Size - Bytes</b>
026_TVA_WB_FSAR_Section_15.pdf	38,455,518
027_TVA_WB_FSAR_Section_16.pdf	148,061
028_TVA_WB_FSAR_Section_17.pdf	144,690
<b>Total</b>	<b>399,437,690</b>
<b>TVA_WBN-2_Oversized_FSAR_Figures</b>	
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 101 - 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
<b>Total</b>	<b>131,112,035</b>
<b>TVA_WBN-2_Oversized_FSAR_Table</b>	
001_TVA_WB_FSAR_Table_6.2.4-1.pdf	1,214,346
<b>Total</b>	<b>1,214,346</b>

**ENCLOSURE 4**

**WBN Unit 2 FSAR A102  
“List Of Files And File Sizes  
On The Publicly Available OSM (OSM #2)”**

**ENCLOSURE 4**  
**TVA Watts Bar Nuclear Plant Unit 2**  
**FSAR Amendment 101 List of Files on *Publicly Available OSM***

File Name	File Size - Bytes
<b>TVA_WBN-2_FSAR_Files</b>	
001_TVA_WB_FSAR_TOC.pdf	369,703
002_TVA_WB_FSAR_LEP.pdf	87,693
003_TVA_WB_FSAR_Section_1.pdf	<b>826,663</b>
004_TVA_WB_FSAR_Section_2_A.pdf	<b>9,923,059</b>
005_TVA_WB_FSAR_Section_2_B_Part_1_of_2.pdf	<b>31,805,036</b>
005_TVA_WB_FSAR_Section_2_B_Part_2_of_2.pdf	<b>8,773,771</b>
006_TVA_WB_FSAR_Section_2_C.pdf	2,107,383
007_TVA_WB_FSAR_Section_2_D.pdf	31,323,847
008_TVA_WB_FSAR_Section_2_E.pdf	<b>45,933,084</b>
009_TVA_WB_FSAR_Section_3_A.pdf	<b>2,330,502</b>
010_TVA_WB_FSAR_Section_3_B.pdf	<b>5,661,320</b>
011_TVA_WB_FSAR_Section_3_C.pdf	<b>25,184,086</b>
012_TVA_WB_FSAR_Section_3_D.pdf	<b>5,747,723</b>
013_TVA_WB_FSAR_Section_4.pdf	12,552,729
014_TVA_WB_FSAR_Section_5.pdf	9,914,639
015_TVA_WB_FSAR_Section_6_A.pdf	<b>19,680,454</b>
016_TVA_WB_FSAR_Section_6_B.pdf	8,064,076
017_TVA_WB_FSAR_Section_7.pdf	13,816,877
018_TVA_WB_FSAR_Section_8.pdf	<b>26,763,596</b>
019_TVA_WB_FSAR_Section_9_A.pdf	<b>24,229,303</b>
020_TVA_WB_FSAR_Section_9_B.pdf	<b>15,270,917</b>
021_TVA_WB_FSAR_Section_10.pdf	14,391,918
022_TVA_WB_FSAR_Section_11.pdf	4,254,156
023_TVA_WB_FSAR_Section_12.pdf	<b>1,705,745</b>
024_TVA_WB_FSAR_Section_13.pdf	3,237,997
025_TVA_WB_FSAR_Section_14.pdf	1,360,063
026_TVA_WB_FSAR_Section_15.pdf	38,455,518

Note: Byte amounts in italics are redacted files.

<b>File Name</b>	<b>File Size - Bytes</b>
027_TVA_WB_FSAR_Section_16.pdf	148,061
028_TVA_WB_FSAR_Section_17.pdf	144,690
<b>Total</b>	<b>364,064,609</b>
<b>TVA_WBN-2_Oversized_FSAR_Figures</b>	
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
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

**ENCLOSURE 4**  
**TVA Watts Bar Nuclear Plant Unit 2**  
**FSAR Amendment 101 List of Files on *Publicly Available OSM***

File Name	File Size - Bytes
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
<b>Total</b>	<b>131,112,035</b>
<b>TVA_WBN-2_Oversized_FSAR_Table</b>	
001_TVA_WB_FSAR_Table_6.2.4-1.pdf	1,214,346
<b>Total</b>	<b>1,214,346</b>