~~Security Related Information Withhold Under 10 CFR 2.390~~
This letter is decontrolled when separated from Attachment 1.

Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

CNL-15-023

February 23, 2015

10 CFR 50.4
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 – Unit 2 – Final Safety Analysis Report, Amendment 113**

Reference: TVA letter to NRC, "Watts Bar Nuclear Plant - Unit 2 - Final Safety Analysis Report, Amendment 112" dated May 30, 2014

This letter transmits the Watts Bar Nuclear Plant (WBN) Unit 2 Final Safety Analysis Report (FSAR) Amendment 113 (A113), which reflects changes made since the issuance of Amendment 112 on May 30, 2014.

Enclosure 1 contains a listing of sections affected, description of the A113 changes, and the corresponding Unit 2 change package numbers.

Amendment 113 is provided 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 Title 10 *Code of Federal Regulations* (CFR) 2.390." The Tennessee Valley Authority 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).

A053
NRR

There are no new commitments made in this letter. If you have any questions, please contact Gordon Arent at (423) 365-2004.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 23th day of February 2015.

Respectfully,

J. W. Shea
Vice President, Nuclear Licensing

Enclosures:

1. WBN Unit 2 FSAR A113, "Summary Listing of A113 FSAR Changes"
2. WBN Unit 2 FSAR A113, "Summary of Redacted Pages"
3. WBN Unit 2 FSAR A113, "List of files and file sizes on the security-related OSM (OSM #1)"
4. WBN Unit 2 FSAR A113, "List of files and file sizes on the publicly available OSM (OSM #2)"

Attachments:

1. OSM #1: WBN Unit 2 FSAR Amendment 113 - Security-Related Information - Withhold Under Title 10 Code of Federal Regulations (CFR) 2.390
2. OSM #2: WBN Unit 2 FSAR Amendment 113 - Publicly Available Version

cc: See Page 3

cc (Enclosures):

U. S. Nuclear Regulatory Commission
Region II
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245 Peachtree Center Ave., NE Suite 1200
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NRC Resident Inspector Unit 2
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
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ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
1.	Table 3.9-25	1. On FSAR Table 3.9-25, Sheet 11 of 23 (A112), add valves FCV-43-54D, FCV-43-56D, FCV-43-59D and FCV-43-63D and associated information. 2. On FSAR Table 3.9-25, Sheet 11 of 23 (A112), change the "Type" column for valve FCV-43-23 from "Gate" to "Globe."	2-113-01
2.	Section 5.2.1.4	1. In FSAR Section 5.2.1.4 on Page 5.2-4 (A112), add code cases 1528 and N-474-1 to the Unit #2 column for the Steam Generators. 2. In FSAR Section 5.2.1.4 on Page 5.2-4 (A112), add code case 1493-1 to the Unit #2 column for the Pressurizer. 3. In FSAR Section 5.2.1.4 on Page 5.2-4 (A112), change code case 1491-1 to 1493-1 in the Unit #1 column for the Pressurizer.	2-113-02
3.	Table 9.2-9	1. On FSAR Table 9.2-9, Page 3 of 28 (A112), change the "Component" column for Item A-4 from "1FCV-70-87" to "1-FCV-70-87." 2. On FSAR Table 9.2-9, Page 3 of 28 (A112), change the "Component" column for Item 2A-4 from "2FCV-70-87" to "2-FCV-70-87." 3. On FSAR Table 9.2-9, Page 12 of 28 (A112), replace the entries for Items B-1 and 2B-1 with the information included on Insert A. 4. On FSAR Table 9.2-9, Page 13 of 28 (A112), revise the "Effect on Plant" column for Item C-3 to change "1 B-Bor" to "1-B-B or." 5. On FSAR Table 9.2-9, Page 17 of 28 (A112), delete the entry for Item D-3. 6. On FSAR Table 9.2-9, Page 28 of 28 (A112), revise Note 4 to correct the misspelling of the word "occurred."	2-113-03
4.	Table 14.2-2	For Table 14.2-2, Sheets 7 of 39 on Page 14.2-133 (A112), change the last two sentences of the TEST METHOD to read: "The data will be used to verify proper; (a) slave cycler timing (b) CRDM coil current amplitudes (c) CRDM operation and (d) MANUAL mode rod stepping rates. The test will be performed with the reactor in cold shutdown and repeated with the reactor at normal operating temperature and pressure prior to initial criticality."	2-113-04

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
5.	Section 8.2.2	1. For Section 8.2.2, on Pages 8.2-23 (A112), add item as follows: "The NRC issued Bulletin 2012-01, "Design Vulnerability in Electrical Power Systems" describing a condition resulting from the loss of a single phase between the transmission network and the onsite power distribution system at an operating nuclear plant in the United States. TVA has taken the short term actions described in the bulletin and the nuclear industry is developing a long term resolution. TVA has added the following license condition for the long term actions: Actions to resolve the issues identified in the Bulletin will be implemented on or before December 31, 2017.	2-113-05
6.	Section 8.1.5.3	1. For Section 8.1.5.3, on Pages 8.1-12 (A112), replace the last three sentences of the second paragraph that read as follows: "In lieu of field testing by resistance, we will establish a fuse inspection and maintenance program that will ensure: (1) that the proper size fuse is installed, (2) that the fuse shows no sign of deterioration, and (3) that the fuse connections are tight and clean. (See IEEE Std 242-1975, Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems). Should a problem arise with a specific brand or model of fuse, necessary corrective action would be initiated through the plant's experience review program." with the following verbiage: "In lieu of field testing by resistance, inspection of fuses and their holders will be performed in accordance with TVA's fuse control procedure each time fuses are manipulated to ensure: (1) that the proper size fuse is installed, (2) that the fuse shows no sign of deteriorations, (3) that the fuse connections are tight and clean. (See IEEE Std 242-1975, Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems). Should a problem be identified during inspection or should a problem arise with a specific brand or model of fuse, necessary corrective actions should be initiated through the plant's Corrective Action Program."	2-113-06

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
7.	Table 14.2-2	For Table 14.2-2 (Sheet 39 of 39) on Page 14.2-166 (A112), make the following changes: 1. Under the heading "Test Method," insert the phrase, "Common Q panel and digital meter" between the words "Monitor" and "indicators" within the sentence of Item 1. 2. Under the heading "Test Method," insert the phrase, "for changes in hot leg and CET temperatures, RCP status, vessel level and subcooling margin" at the end of the sentence of Item 1. 3. Under the heading "Test Method," replace the word "all" with "key" within the sentence of Item 2. 4. Under the heading "Test Method," insert "on the Common Q main control room panels" at the end of the sentence of Item 3. 5. Under the heading "Test Method," insert the phrase, "the Common Q" between the words "verify" and "main" within the sentence of Item 4. 6. Under the heading "Acceptance Criteria," replace the word "all" with "key" within the sentence of Item 1. 7. Under the heading "Acceptance Criteria," insert the word, "panel" between the words "room" and "alarms" within the sentence of Item 2 and between the words "alarm" and "is" within the sentence of Item 3. 8. Under the heading "Acceptance Criteria," insert the phrase, "Common Q" between the words "The" and "main" within both sentences of Item 2 and 3.	2-113-07
8.	Section 7.6.6	For Section 7.6.6 on Page 7.6-4 (A112), replace the last sentence in the next to last paragraph of section on page 7.6-4 that reads, "For FCV 62-98 and FCV 62-99, the motive power had been removed." with a sentence that reads: "For FCV 62-98 and FCV 62-99, the motive power has been removed and the handwheel has been locked."	2-113-08

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
9.	Section 9.2.8	Specifically, the changes are as follows: 1. On Page 9.2 38 (A112), replace the last sentence of the second paragraph of Section 9.2.8.2 with the following: "Maximum normal system flow requirements for the two WBN units provided by the combination of (a) six of the seven RCW pumps located in the intake pumping station (b) one of the two booster pumps located in the Turbine Building for RCW service to equipment in the Auxiliary Building and the Additional Equipment Buildings. The seventh RCW pump located in the intake pumping station is a spare. The second booster pump in the RCW line to the Auxiliary Building is a spare." 2. On Page 9.2-40 (A112), insert the following after Item (4): "The non-seismically qualified portion of the RCW supply line from the Turbine Building to the Auxiliary Building includes two in-parallel booster pumps. The booster pumps are (i) located in the Turbine Building, (ii) locally controlled, and (iii) powered by non-safety related electric power supplies. The same non-seismically qualified portion of the RCW supply line from the Turbine Building to the Auxiliary building includes a bypass from the flow path of the installed booster pumps. Operation of one of the two booster pumps supports the nonessential source of water to the Auxiliary and Additional Equipment Buildings during operation of both WBN units." 3. On Page 9.2-40 (A112), insert the following after the second sentence of the second paragraph under Section heading 9.2 8.3: "Within the Turbine Building, the RCW booster pumps for the RCW supply line from the Turbine Building to the Auxiliary Building are separated from any safety-related equipment." 4. On Page 9.2-41 (A112), insert the phrase, "(Seismic Category (IL)) between the words, "qualified" and "portion" in the first sentence of the last paragraph of Section 9.2.8.3. 5. On Page 9.2-41 (A112), insert the following sentence after the first paragraph of Section 9.2.8.4: "A diver protection barrier is installed in the pump bay to facilitate the inspection of the RCW pumps."	2-113-09

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
10.	Section 4.2.3.2.2 Section 5.2.1.4	1 In FSAR Section 4.2.3.2.2 on Page 4.2-37 (A112), change the ASME Code Case identified in the last sentence of the first paragraph from "1337-8" to "1337-3." 2. In FSAR Section 5.2.1.4 on Page 5.2-4 (A112), change the ASME Code Case identified in the Unit #2 column for the "drive mechanism housings, part length" from "1337-5" to "1337-3." 3. In FSAR Section 5.2.1.4 on Page 5.2-4 (A112), add code case 1649 to the Unit #2 column for the ""drive mechanism housings, part length."	2-113-10
11.	Section 3.12.4.1	In FSAR Section 3.12.4.1, on Page 3.12-3 (A112), under Guideline 4 - "Special Lifting Devices," change "WCAP-10346" to "WCAP-10313, including Addenda 1, 2 and 3."	2-113-11
12.	Sections 9.4.7.1 9.4.7.2.1	1 In FSAR Section 9.4.7.1 on Page 9.4-43 (A112), change the last sentence of the second paragraph to read "Four 33-1/3% capacity LCC fan coil assemblies are provided to allow three or less to operate during reactor normal operation with one or more on standby." 2. In FSAR Section 9.4.7.2.1 on Page 9.4-45 (A112), delete the last sentence of the first paragraph.	2-113-12
13.	Table 14.2-2	For Table 14.2-2, Sheet 8 of 39 on Page 14.2-134 (A112), delete the word 'individually" from the first sentence of the TEST METHOD.	2-113-13
14.	Table 14.2-2	For Table 14.2-2, on Page 14.2-136 (A112), Sheet 10 of 39, 1. Delete the words "with minimum overlap settings" from the fourth sentence of the TEST METHOD. 2. Replace the word "Sufficient" with the word "Rod" in the fifth sentence of the TEST METHOD.	2-113-14

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
15.	Sections 14.2.2.2 14.2.2.2.1 Table 14.2-2	I. For Sections 14.2.2.2 and 14.2.2.2.1 on Page 14.2-5 (A112), 1. Replace the words "Plant Manager" with "Site Vice President" in the second sentence of the first paragraph under 14.2.2.2. 2. Delete the words "management of ' from the second sentence of the first paragraph under 14.2.2.2. 3. Replace the words "and directly reports to the WBN Vice President" with "implementation" from the second sentence of the first paragraph under 14.2.2.2. 4. Delete the words "reports to the Plant Manager and" in the first sentence of the first paragraph under 14.2.2.2.1 II. For Table 14.2-2 (Sheet 32 of 39) on Page 14.2-158 (A112), 1. Delete the words "Technical Specifications" from item #2 under PREREQUISITES 2. Delete the words 'Technical Specifications" from item #1 under ACCEPTANCE CRITERIA 3. Replace "50EF" with "50 degrees F" in item #2 under ACCEPTANCE CRITERIA	2-113-15
16.	Table 14.2-2	For Table 14.2-2, Sheet 9 of 39 on Page 14.2-135 (A112), delete the word "partially" from the first sentence of the TEST METHOD.	2-113-16
17.	Section 3.1.2.1	In FSAR Section 3.1.2.1 on Page 3.1-5 (A112), delete the last two sentences of the first paragraph under the "Compliance" discussion for "Criterion 5 - Sharing of Structures, Systems, and Components."	2-113-17

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
18.	Table 9.3-7	1. Add the Failure Modes and Effects Analysis of valves 0-CKV-32-1316 and 0-32-635 from Insert A to FSAR Table 9.3-7, Sheet 19 of 45 on Page 9.3-91 (A112), as Items 33a and 33b. 2. Revise the "Remarks" column for Item 41 on FSAR Table 9.3-7, Sheet 23 of 45 on Page 9.3-95 (A112), by changing which compressor when started will return valves 0-FCV-32-94 and 0-FCV-32-95 to normal automatic operation from "A-A to "B-B." 3. Revise the "Remarks" column for Item 42 on FSAR Table 9.3-7, Sheet 24 of 45 on Page 9.3-96 (A112), by changing which compressor when started will return valves 0-FCV-32-94 and 0-FCV-32-95 to normal automatic operation from "A-A" to "B-B." 4. Revise the "Remarks" column for Item 43 on FSAR Table 9.3-7, Sheet 25 of 45 on Page 9.3-97 (A112), by changing which compressor when started will return valves 0-FCV-32-96 and 0-FCV-32-97 to normal automatic operation from "A-A" to "B-B." 5. Revise the "Remarks" column for Item 44 on FSAR Table 9.3-7, Sheet 26 of 45 on Page 9.3-98 (A112), by changing which compressor when started will return valves 0-FCV-32-96 and 0-FCV-32-97 to normal automatic operation from "A-A" to "B-B." 6. Add the Failure Modes and Effects Analysis of valves 0-CKV-32-1317 and 0-32-637 from Insert 8 to FSAR Table 9.3-7, Sheet 37 of 45 on Page 9.3-109 (A112), as Items 66a and 66b. 7. Revise the "Remarks" column for Item 67 on FSAR Table 9.3-7, Sheet 38 of 45 on Page 9.3-110 (A112), by changing the valve used to manually isolate the control air line from valve "0-ISV-32-1013" to valve "0-ISV-32-4105." 8. Revise the "Remarks" column for Item 80 on FSAR Table 9.3-7, Sheet 45 of 45 on Page 9.3-117 (A112), by changing the valve used to manually isolate the control air line from valve "0-ISV-32-1013" to valve "0-ISV-32-4108."	2-113-18

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
19.	Section 6.2.4 Table 9.2-2	1. In FSAR Section 6.2.4.2 on Page 6.2.4-5 (A112), change the valves identified in the last paragraph of the section from Unit 1 valves "1-FCV-32-110, 1-FCV-67-107, 1-FCV-70-92 or 1-FCV-70-140" to the corresponding Unit 2 valves "2-FCV-32-111, 2-FCV-67-107, 2-FCV-70-92 or 2-FCV-70-140." 2. On FSAR Table 9.2-2, Page 50 of 79 on Page 9.2-94 (A112), revise the "Effect on System" column for Item 45 by correcting the valve number from "1&2-FCV-113" to "1&2-FCV-67-113."	2-113-19
20.	Section 12.5.3	For Section 12.5.3, on Page 12.5-6 (A112), delete the 3rd and 4th sentences in the 4th paragraph and replace the 5th sentence so that the 4th paragraph reads as follows: "Prospective monitoring determinations for internal and external dose monitoring are performed for individuals or group of individuals entering the restricted area. Personnel monitoring for dose from sources external to the body, is conducted using appropriate dosimeters as required by 10CFR20. Dosimeters are processed by a third-party accredited facility. Dose information for whole body (total effective dose equivalent), external exposure of the skin, lens of the eye, and extremities is recorded in a dose tracking system and retained in a permanent historical database for generating required reports. Real time control is generally implemented using information from direct reading dosimeters. Official doses of record are taken from dosimeters. However, doses are calculated when dosimeter results are not available or do not accurately represent actual dose received."	2-113-20
21.	Table 15.5-9	1. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the 2 Hr EAB gamma dose for a loss of coolant accident from "2.12" to "2.33". 2. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the 2 Hr EAB beta dose for a loss of coolant accident from "1.25" to "1.38". 3. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the 30 Day LPZ gamma dose for a loss of coolant accident from "2.18" to "2.28". 4. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the 30 Day beta dose for a loss of coolant accident from "2.61" to "2.68".	2-113-21

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
21. (cont.)	Table 15.5-9	5. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the control room gamma dose for a loss of coolant accident in the "Control Room" column of the first table and in the "Total" column of the second table from "1.05" to "1.09". 6. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the control room beta dose for a loss of coolant accident in the "Control Room" column of the first table and in the "Total" column of the second table from "9.10" to "9.40". 7. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the airborne control room gamma dose for a loss of coolant accident in the "Breakdown of Control Room Personnel Dose" table from "1.02" to "1.06". 8. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the airborne control room beta dose for a loss of coolant accident in the "Breakdown of Control Room Personnel Dose" table from "9.04" to "9.34". 9. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the shine control room gamma dose for a loss of coolant accident in the "Breakdown of Control Room Personnel Dose" table from "0.005" to "0.006". 10. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the ingress/egress control room gamma dose for a loss of coolant accident in the "Breakdown of Control Room Personnel Dose" table from "0.027" to"0.028". 11. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the control room thyroid (ICRP-30) dose for a loss of coolant accident in the "Control Room" column of the first table and in the "Total" column of the second table from "3.75" to "3.76. 12. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the airborne control room thyroid (ICRP-30) dose for a loss of coolant accident in the "Breakdown of Control Room Personnel Dose" table from "3.66" to "3.67".	2-113-21

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
21 (cont.)	Table 15.5-9	13. On FSAR Table 15.5-9 on Page 15.5-37 (A112), revise the ingress/ egress control room thyroid (ICRP-30) dose for a loss of coolant accident in the "Breakdown of Control Room Personnel Dose" table from "0.090" to "0.091" 14. On FSAR Table 15.5-9 on Page 15.5-37 (A112), add the following note as shown: Note: The limiting gamma and beta doses were determined by an analysis that assumes an EGTS PCO control loop single failure. The limiting thyroid doses were determined by an analysis that assumes a single failure of an EGTS train.	2-113-21
22.	Table 14.2-2	For Table 14.2-2 (Sheet 30 of 39) on Page 14.2-156, delete the word, "setpoint" from three locations at the end of the fourth and sixth sentences under test method heading and from the end of the first sentence of Item 1 under the Acceptance Criteria heading.	2-113-22
23.	Table 9.2-9	1. On FSAR Table 9.2-9 (Page 13 of 28) on Page 9.2-143 (A112), revise the "Function" column for Item C-2 by adding the function "Supply water to CCS Train 1B/2B as replacement for CCS pump C-S". 2. On FSAR Table 9.2-9 (Page 13 of 28) on Page 9.2-143 (A112), revise the "Effect on Plant" column for Item C-2 by adding "None. Redundant CCS Trains 1A & 2A will continue to support CCS safety function (See Note 2)" for the new function added in Item 1 above. 3. On FSAR Table 9.2-9 (Page 13 of 28) on Page 9.2-143 (A112), revise the "Remarks" column for Item C-2 by adding "Safe shutdown function capability is available from CCS Trains 1A and 2A" for the new function added in Item 1 above. 4. On FSAR Table 9.2-9 (Page 14 of 28) on Page 9.2-144 (A112), revise the "Function" column for Item 2C-3A by adding the function "Supply water to CCS Train 1B/2B as replacement for CCS pump C-S". 5. On FSAR Table 9.2-9 (Page 14 of 28) on Page 9.2-144 (A112), revise the "Effect on Plant" column for Item 2C-3A by adding "None. Redundant CCS Trains 1A & 2A will continue to support CCS safety function (See Note 3)" for the new function added in Item 4 above.	2-113-23

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
23. (cont.)	Table 9.2-9	6. On FSAR Table 9.2-9 (Page 14 of 28) on Page 9.2-144 (A112), revise the "Remarks" column for Item 2C-3A by adding "Safe shutdown function capability is available from CCS Trains 1A and 2A" for the new function added in Item 4 above. 7. On FSAR Table 9.2-9 (Page 28 of 28) on Page 9.2-158 (A112), revise Note 2 to delete "Not Used" and add "If CCS Pump 1B-B is used to supply water to Train 1B/2B, opening of locked closed valves 1-FCV-70-26, 27, 64 & 74 and closing of locked open valve 1-FCV-70-34 will be required." 8. On FSAR Table 9.2-9 (Page 28 of 28) on Page 9.2-158 (A112), revise Note 3 to delete "Not Used" and add "If CCS Pump 2B-B is used to supply water to Train 1B/2B, opening of locked closed valves 2-FCV-70-28, 29, 76 & 78 and closing of locked open valve 2-FCV-70-39 will be required."	2-113-23
24.	Table 3.2-7	On FSAR Table 3.2-7, Page 26 of 27, add WB-DC-40-36, Appendix E, Attachment A, Request #WBN-MEB-ASME-0126 and its associated information from Insert A to the table after the entry for Request #WBN-MEB-ASME-0119.	2-113-24
25.	Table 14.2-2	For Table 14.2-2, Sheet 28 of 39, on Page 14.2-154 (A112), remove 3% power and replace with 5% power and change no load temperature and pressure to normal operating temperature and pressure. Replaced 10% with 15% to allow testing at increased power. These changes allow improvements in testing PAT 5.1.	2-113-25
26.	Section 9.2.1.3	1. In FSAR Section 9.2.1.3, change the flow requirement included in the last paragraph on page 9.2-6 from 26,500 gpm to 26,300 gpm. 2. In FSAR Section 9.2.1.3, change the flow requirement included in the first paragraph on page 9.2-7 from 33,000 gpm to 32,700 gpm. 3. In FSAR Section 9.2.1.3, change the flow requirement included in the second paragraph on page 9.2-7 from 19,600 gpm to 19,500 gpm. 4. In FSAR Section 9.2.1.3, change the flow requirement included in the third paragraph on page 9.2-7 from 20,600 gpm to 20,500 gpm.	2-113-26

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
27.	Section 9.2.2.4	1. In FSAR Section 9.2.2.4 on Page 9.2-20 (A112), change the flow requirement included in the third example from 10,200 gpm to 8,100 gpm. 2. In FSAR Section 9.2.2.4 on Page 9.2-20 (A112), change the heat load value included in the third example from 128,700 kBTU/hr to 113,800 kBTU/hr.	2-113-27
28.	Sections 6.2.1 6.8.3	1. In FSAR Section 6.2.1.3.3 on Page 6.2.1-5 (A112), change the amount of ice identified in assumption (2) from "2.26 x 10^6 lbs" to "2.33 x 10^6 lbs." 2. In FSAR Section 6.2.1.3.3 on Page 6.2.1-5 (A112), change the temperature in the ice condenser identified in assumption (2) from "15°F" to "27°F." 3. In FSAR Section 6.2.1.3.3 on Page 6.2.1-6 (A112), change the temperature in the ice condenser identified in assumption (1 0) from "15°F" to "27°F." 4. In FSAR Section 6.2.1.3.3 on Page 6.2.1-8 (A112), change the maximum calculated containment pressure from "12.86" psig to "12.40" psig. 5. In FSAR Section 6.2.1.3.3 on Page 6.2.1-8 (A112), change the time that the maximum calculated containment pressure occurs from approximately "4348" seconds to approximately "4346." 6. In FSAR Section 6.2.1.3.6 on Page 6.2.1-21 (A112), insert the following after the first sentence of the first paragraph: "A corrected version of WCAP-10325-P-A computer codes and input, which removed errors reported in References 29, 30 and 31, was used for the containment LOCA M&E release analysis. The NSAL corrections are corrections to calculations in support of the approved methodology, and not a change in methodology." 7. In FSAR Section 6.2.1.3.11 on Page 6.2.1-50 (A112) add Westinghouse NSAL-06-6, NSAL-11-5 and NSAL-14-2 as references 29, 30, and 31, respectively.	2-113-28

ENCLOSURE 1

WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
28. (cont.)	Sections 6.2.1 6.8.3	8. Replace the values included on FSAR Table 6.2.1-3 on Page 6.2.1-54 (A112) with the revised values provided by Westinghouse in WBT-D-5105. 9. Replace the values included on FSAR Table 6.2.1-4 on Page 6.2.1-55 (A112) with the revised values provided by Westinghouse in WBT-D-5105. Also correct the note to indicate energy content of sump includes active and inactive regions. 10. Replace the figure on FSAR Figure 6.2.1-1 on Page 6.2.1-151 (A112) with the Insert B. 11. Replace the figure on FSAR Figure 6.2.1-2a on Page 6.2.1-152 (A112) with the Insert C. 12. Replace the figure on FSAR Figure 6.2.1-2b on Page 6.2.1-153 (A112) with the Insert D. 13. Replace the figure on FSAR Figure 6.2.1-3 on Page 6.2.1-154 (A112) with the Insert E. 14. Replace the figure on FSAR Figure 6.2.1-4 on Page 6.2.1-155 (A112) with the Insert F. 15. Replace the figure on FSAR Figure 6.2.1-4a on Page 6.2.1-156 (A112) with the Insert G. 16. In FSAR Section 6.8.3 on Page 6.8-2 (A112), change value for peak containment pressure from "12.86" psig to "12.40" psig. 17. In FSAR Section 6.8.3 on Page 6.8-2 (A112), change the time that the maximum calculated containment pressure occurs from approximately "4348" seconds to approximately "4346."	2-113-28
29.	Section 6.3.2	1. In FSAR Section 6.3.2.14 on Page 6.3-22 (A112), under item (1) Residual Heat Removal Pumps, in the third sentence of the paragraph, replace the words "containment over pressure" with "containment accident pressure." 2. In FSAR Section 6.3.2.14 on Page 6.3-22 (A112), under item (1) Residual Heat Removal Pumps, insert the following sentence as the third sentence of the paragraph: "A containment pressure of zero psig (building pressure of 14.3 psia) is used in calculating the most limiting (minimum) NPSHA."	2-113-29

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WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
30.	Section 3.1.2	1. In FSAR Section 3.1.2.1, on Page 3.1-5 (A112), in the second sentence of the "Compliance discussion for "Criterion 5 - Sharing of Structures, Systems, and Components," add "auxiliary control air system (Section 9.3)" to the list of shared safety-related systems. 2. In FSAR Section 3.1.2.4, on Page 3.1-29 (A112), in the third paragraph of the "Compliance" discussion for "Criterion 44 - Cooling Water," replace the word "subsystems" with the word "trains". 3. In FSAR Section 3.1.2.4, on Page 3.1-29 (A112), in the third paragraph of the "Compliance" discussion for "Criterion 44 - Cooling Water," replace the word "necessary" with the word "required". 4. In FSAR Section 3.1.2.4, on Page 3.1-29 (A112), in the third paragraph of the "Compliance" discussion for "Criterion 44 - Cooling Water," delete the period at the end of the sentence and add "that are important to safety."	2-113-30
31.	Section 2.4	Revise Section 2.4, "Hydrologic Engineering, " in accordance with letter to NRC dated 09/30/2014 resulting from Hydrology reevaluation.	2-113-31
32.	Table 9.3-4 Figure 9.3-21	1. On FSAR Table 9.3-4 on Page 9.3-64 (A112), delete the header at the bottom of the table labeled "NOTE". 2. On FSAR Table 9.3-4 on Page 9.3-64 (A112), combine the last three paragraphs on the table. 3. On FSAR Table 9.3-4 on Page 9.3-64 (A112), add a double asterisk to the statement "See Figure 9.3-21 for Requirements" 4. On FSAR Table 9.3-4 on Page 9.3-64 (A112), add the note: "**The minimum required amount of 3.5% to 4.0% boric acid solution specified in the Unit 2 Technical Requirements Manual (TRM) is based on the more restrictive Unit 1 required amount of 3.5% to 4.0% boric acid solution." 5. Replace FSAR Figure 9.3-21 on Page 9.3-158 (A112) with the revised figure.	2-113-32

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WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
33.	Section 2.4.14	1. On Page 2.4-49 (A112), replace paragraph under Section 2.4.14.4.3 that reads: "The steps needed to prepare the plant for flood mode operation can be accomplished with 24 hours of notification that a flood above plant grade is expected. An additional 3 hours are available for contingency margin. Site grading and building design prevent any flooding before the end of the 27 hour preflood period." With the following that reads: "The steps needed to prepare the plant for flood mode operation can be accomplished with 27 hours of notification that a flood above plant grade is expected. The 27 hours allows for a minimum of 10 hours for Stage I flood mode preparations and an additional 17 hours for Stage II flood mode preparations. Site grading and building design prevent any flooding before the end of the 27 hour preflood period." 2. On Page 2.4-52 (A112), replace phrase in the second paragraph under Section 2.4.14.8.1 that reads: "3 hours more than the 24 hours needed." With the following: "(10 hours for Stage I preparations and 17 hours for Stage II preparations)." 3. On Page 2.4-52 (A112), replace phrase in the first paragraph under Section 2.4.14.9.1 that reads: "may take 24 hours to implement." With the following: "can be implemented within 27 hours."	2-113-33

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
34.	Sections 1.1 2.4 3.5 3.9 7.7 8.1 9.2 12.3	1. On Page 1.1-1 (A112), delete from the last two sentences of the first paragraph of section as follows: "and its plans to request an operating license prior to April 1, 2012. TVA expects to place Unit 2 in commercial operation by October 1, 2012." 2. On Page 2.4-36 (A112), replace the word, "change," with the word, "chance" in the third sentence of the first paragraph of Section 2.4.11.1. 3. On Page 3.5-4 (A112), delete the last sentence of the first paragraph of Section 3.5.1.1.7 that reads as follows: "Additionally, a diesel generator C-S which may be substituted for any one of the normally aligned diesel generators is located within the separate Additional Diesel Generator Building. 4. On Page 3.9-30 (A112), remove the extra spaces from between Items 4 and 5 at the top of the page. 5. On Page 3.9-70 (A112), realign the "Actuation" column such that the word "Self Actuated," appears on the same row. 6. On Page 3.9-76 (A112), correct typographical error by replacing the word, "respectivley," with the correct spelling of "respectively" in the first sentence of the note at the bottom of page. 7. On Page 3.9-108 (A112), correct typographical error by replacing the word, "undestood," with the correct spelling of "understood," in the note below Table 3.9-25, Sheet 23 of 23. 8. On Page 6.7-115 (A112), correct value for Item 2.a. Radial Direction from "20,9000" to "20,900 to 40, 410." 9. On Page 7.7-20 (A112), correct typographical error by replacing "th" with "the" in the first sentence of the second paragraph of Section 7.7.1.9.4. 10. On Page 8.1-8 (A112), insert the word, "and" between the words, "guides" and "the" in the first sentence of Section 8.1.5.3.	2-113-34

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
34. (cont.)	Sections 1.1 2.4 3.5 3.9 7.7 8.1 9.2 12.3	11. On Page 9.2-15 (A112), replace "shouid" with "should" to correct typographical error in the last sentence of the first full paragraph at the top of the page. 12. On Pages 9.2-67 and 9.2-68, delete Item number 15 and 16 in Table 9.2-2, Page 23 and 24 of 79 respectively. 13. On Page 9.2-133, in Table 9.2-9, Page 3 of 28, for Items A-4 and 2A-4, replace "1FCV-70-87" and "2FCV-70-87" with "1-FCV-70-87" and 2-FCV-70-87," respectively. 14. On Page 9.2-140, in Table 9.2-9, Page 10 of 28, for Item A-16, replace the word, "insured" with the word, "ensured" in the remarks column. 15. On Page 9.2-143, in Table 9.2-9, Page 13 of 28, delete the period after the word "header" for Item C-2 in the Method of Detection column. 16. On Page 9.2-143, in Table 9.2-9, Page 13 of 28, add a space between "B" and "or" for Item C-3 in the Effect on Plant column. 17. On Page 9.2-144, in Table 9.2-9, Page 14 of 28, replace "Shutdown" with "Safe shutdown" for Item C-5 in the Remarks column 18. On Page 9.2-148, in Table 9.2-9, Page 18 of 28, insert a period after the word "Piping" in the Function column for Items E-1, 2E-1, E-2, 2E-2. Also, delete the period after the end parentheses in the Function column for Items E-1, 2E-1, E-2, 2E-2. 19. On Page 9.2-149, in Table 9.2-9, Page 19 of 28, insert a period after the word "Piping" in the Function column for Items E-3, 2E-3, E-4, 2E-4. Also, delete the period after the end parentheses in the Function column for Items E-3, 2E-3, E-4, 2E-4.	2-113-34

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
34. (cont.)	Sections 1.1 2.4 3.5 3.9 7.7 8.1 9.2 12.3	20. On Page 9.2-150, in Table 9.2-9, Page 20 of 28, insert a period after the word "Piping" in the Function column for Items E-5, 2E-5, E-6, 2E-6. Also, delete the period after the end parentheses in the Function column for Items E-5, 2E-5, E-6, 2E-6. 21. On Page 9.2-151, in Table 9.2-9, Page 21 of 28, insert a period after the word "Piping" in the Function column for Items E-7, 2E-7, E-8, 2E-8. Also, delete the period after the end parentheses in the Function column for Items E-7, 2E-7, E-8, 2E-8. 22. On Page 9.4-7 (A109 - excerpt from Change Package 2-110-09), delete the phrase, "(excluding cooling coils)" from the next to last sentence of the last paragraph of Section 9.4.7.3. 23. On Page 12.3-17, replace "int he" with "in the" in the last sentence of the second full paragraph from top of page.	2-113-34
35.	Table 3.2-7	1. Replace FSAR, Amendment 112, Table 3.2-7, in its entirety. 2. On Page 1 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, move Code Cases "N-192," "N-304," "N-188-1" and "N-514" to the "Source Document" column and insert "N/A" in the "New Source" column. 3. On Page 3 of 16. of the replacement FSAR Table 3.2-7 provided on Insert A, move Code Case "N-341" to the "Source Document" column and insert "N/A" in the "New Source" column. 4. On Page 3 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, add Code Case "N-520" from Page 16 of 16 after Code Case "N-282" (under the "Quality Assurance Related" heading). After adding Code Case "N-520" from Page 16 of 16, delete Code Case "N-520" on Page 16 of 16. 5. On Page 4 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, add source document NCA-1140(a) information from Insert B.	2-113-35

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WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
35. (cont.)	Table 3.2-7	6. On Page 4 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, for "Source Document" identified as "NE-4430," change the "New Source" column from "77W78" to "80S81." 7. On Page 4 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, for "Source Document" identified as "NA," add the words "from NC/ND-3676.3" to the end of the statement in the "Provisions of Later Code" column on Insert A. Also delete the words "Also involved in change number NC/ND3676-1" from the "Examples When Used" column. 8. On Page 5 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, for "Source Document" identified as "NA," change the "New Source" column from "80S81" to "80S80." 9. On Page 5 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, for "Source Document" identified as "NC/ND-3643.1 ," change the "New Source" column from "77S77" to "77S78.". 10. On Page 5 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, for "Source Document" identified as "NC/ND-2311 ," change the "New Source" column from "74W76" to "74S75." 11. On Page 6 of 16 of the replacement FSAR Table 3.2-7 provided, add source document NB-4121.3 and associated information. 12. On Page 8 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, for "Source Document" identified as "NA," change the code of record paragraph identified in the "Provisions of Later Code" column from "4623.1" to "NB-4623.1." Also, change the temperature identified in the "Provisions of Later Code" column from "400" to "600."	2-113-35

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
35. (cont.)	Table 3.2-7	13. On Page 14 of 16 of the replacement FSAR Table 3.2-7 provided on Insert A, add source document NB/NC/ND-4452 and associated information from Insert D. 14. On Page 15 of 16 of the replacement FSAR Table 3.2-7 provided in Insert A, for "Source Document" identified as "NB 2538(a)4," change the "Source Document" column to "NB-2538.4," and change the "New Source" column from "77ED" to "77S78." 15. On Page 16 of 16 of the replacement FSAR Table 3.2-7 provided, add source document N-801 and associated information. 16. On Page 16 of 16 of the replacement FSAR Table 3.2-7 provided, add source document N-802 and associated information.	2-113-35
36.	Table 3.9-17 3.9-26	1. On FSAR Table 3.9-17, Sheet 1 of 9 on Page 3.9-70 (A112), remove Footnote 2 from TVA valve No. CKV-62-543. 2. On FSAR Table 3.9-17, Sheet 9 of 9 on Page 3.9-78 (A112), replace the current Footnote 2 with the words "Footnote 2 deleted by Amendment 113." 3. On FSAR Table 3.9-17, Sheet 9 of 9 on Page 3.9-78 (A112), revise Footnote 4 by deleting the "1-" from valve "1-RFV-63-577." 4. On FSAR Table 3.9-26, Sheet 2 of 6 on Page 3.9-110 (A112), add check valve CKV-62-543 as a Category C, Class B, valve in the Chemical and Volume Control System.	2-113-36
37.	Section 8.3.2	For Section 8.3.2.1.1, on Page 8.3-55 (A112), replace the last sentence of the paragraph with the heading, "Load Time of Application," that reads, "A manual load shedding is required during a SBO within 30 minutes for the SBO period," with the following "A manual load shedding is not required during an SBO."	2-113-37

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
38.	Section 6.2.1.3.10 Tables 6.2.1-1 6.2.1-39 6.2.1-41 6.2.1-42 6.2.1-43 6.2.1-44 Figures 6.2.1-69 6.2.1-70 6.2.1-71 6.2.1-72 6.2.1-73 6.2.1-74	1. In Section 6.2.1.3.10 on Page 6.2.1-34 (A112), under the subsection entitled "Pipe Break Slowdowns - Spectra and Assumptions," change the small split breaks listed in assumption 1(c) from "0.6, 0.35, and 0.1 ft^{2}" to "0.6 and 0.35 ft^{2}. 2. In Section 6.2.1.3.10 on Page 6.2.1-34 (A112), under the subsection entitled "Pipe Break Slowdowns - Spectra and Assumptions," delete the words "the containment model for" in the first sentence of assumption 3. Also delete the last sentence of assumption 3. 3. In Section 6.2.1.3.10 on Page 6.2.1-34 (A112), under the subsection entitled "Pipe Break Slowdowns- Spectra and Assumptions," change the words "split pipe ruptures at 30%" to "split pipe ruptures at 100.6% and 30%" in assumption 5. 4. In Section 6.2.1.3.10 on Page 6.2.1-34 (A112), under the subsection entitled "Pipe Break Slowdowns - Spectra and Assumptions," delete the words "or control valve (FCV)," in assumption 6. 5. In Section 6.2.1.3.10 on Page 6.2.1-34 (A112), under the subsection entitled "Pipe Break Slowdowns - Spectra and Assumptions," reformat assumption 7 to ensure the number "10" is on the same line as the word "minutes." 6. In Section 6.2.1.3.10 on Page 6.2.1-35 (A112), under the subsection entitled "Pipe Break Slowdowns- Spectra and Assumptions," delete the last sentence of assumption 8. 7. In Section 6.2.1.3.10 on Page 6.2.1-35 (A112), under the subsection entitled "Single Failure Effects," reformat item 2 to ensure the number "6.5" is on the same line as the word "seconds."	2-113-38

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WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
38. (cont.)	Section 6.2.1.3.10 Tables 6.2.1-1 6.2.1-39 6.2.1-41 6.2.1-42 6.2.1-43 6.2.1-44 Figures 6.2.1-69 6.2.1-70 6.2.1-71 6.2.1-72 6.2.1-73 6.2.1-74	8. In Section 6.2.1.3.10 on Page 6.2.1-36 (A112), under the subsection entitled "Single Failure Effects," delete item 3 and renumber items 4 and 5 as items 3 and 4 respectively. 9. In Section 6.2.1.3.10 on Page 6.2.1-36 (A112), under the subsection entitled "Single Failure Effects," reformat new item 3 to ensure the number "2,250" is on the same line as the word "gpm." 10. In Section 6.2.1.3.10 on Page 6.2.1-36 (A112), under the subsection entitled "Single Failure Effects," delete the comma after the word "consistency" in new item 4. 11. In Section 6.2.1.3.10 on Page 6.2.1-36 (A112), under the subsection entitled "Worst-Case Mass and Energy Releases," replace the words "the AFW runout control system." with "a FIV." in the description of case 1. 12. In Section 6.2.1.3.10 on Page 6.2. 1-37 (A112), under the subsection entitled "Maximum Containment Temperature Analysis for Steam Line Break," replace the words "For the worst case steam line breaks, one" with the word "One" in the first sentence of the last paragraph. Also replace the words "these three" with the word "all" in the last sentence of this paragraph. 13. In Section 6.2.1.3.10 on Page 6.2.1-37 (A112), under the subsection entitled "Containment Transient Calculations," reformat assumption 4 to ensure the number "8" is on the same line as the word "minutes." 14. In Section 6.2.1.3.10 on Page 6.2.1-38 (A112), under the subsection entitled "Containment Transient Calculations," delete the last sentence of assumption 9.	2-113-38

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
38. (cont.)	Section 6.2.1.3.10 Tables 6.2.1-1 6.2.1-39 6.2.1-41 6.2.1-42 6.2.1-43 6.2.1-44 Figures 6.2.1-69 6.2.1-70 6.2.1-71 6.2.1-72 6.2.1-73 6.2.1-74	15. In Section 6.2.1.3.10 on Page 6.2.1-38 (A112), under the subsection entitled "Containment Transient Calculations," reformat assumption 10 to ensure the word "Table" is on the same line as the number "6.2.1-42." 16. In Section 6.2.1 .3.10 on Page 6.2.1-38 (A112), under the subsection entitled "Containment Transient Calculations," reformat assumption 11 to ensure the word "Table" is on the same line as the number "6.2.1-39." 17. In Section 6.2.1.3.10 on Page 6.2.1-38 (A112), under the subsection entitled "Containment Transient Calculations," reformat assumption 12 to ensure the number "72" is on the same line as the units "Btu/hr-ft^2. 18. In Section 6.2.1.3.10 on Page 6.2.1-38 (A112), under the subsection entitled "Large Break," change the calculated peak temperature from "323.9°F" to "324.3°F" and peak pressure from "9.29 psig" to "10.3 psig" in the first sentence. Also replace the words "the AFW runout control system" with the words "a main feedwater isolation valve" at the end of the first sentence and replace the word "transients" with the word "transient" at the end of the second sentence. Additionally, reformat the paragraph, if needed after the above changes, to ensure the word "Figure" is on the same line as the number "6.2.1-69." 19. In Section 6.2.1.3.10 on Page 6.2.1-38 (A112), under the subsection entitled "Small Break," change the peak temperature from "324.4°F" to "325.1°F" and peak pressure from "6.58 psig" to "6.59 psig" in the second sentence of the first paragraph. 20. In Section 6.2.1.3.10 on Page 6.2.1-39 (A112), under the subsection entitled "Small Break," change the peak temperature from "325.1°F" to "325.9°F" and peak pressure from "6.83 psig" to "6.84 psig" in the second sentence of the second paragraph.	2-113-38

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
38. (cont.)	Section 6.2.1.3.10 Tables 6.2.1-1 6.2.1-39 6.2.1-41 6.2.1-42 6.2.1-43 6.2.1-44 Figures 6.2.1-69 6.2.1-70 6.2.1-71 6.2.1-72 6.2.1-73 6.2.1-74	21. On Table 6.2.1-1, on Page 2 of 2, change the area of Slab 13 from "75,865 ft^2" to "75,860 ft^2." 22. On Table 6.2.1-39, on Pages 6.2.1-138 and 6.2.1-139 (A112), revise the title of Run 1 on both pages by changing the words "AFW Runout Protection" with "MFIV." Also change the title of the third column from "Energy Flow Rate (Btu/sec)" to "Enthalpy (Btu/lbm)." 23. On Table 6.2.1-39 on Pages 6.2.1-138 through 6.2.1.143 (A112), replace the values provided for Run 1, 2 and 3 with the values provided on Inserts A, B, and C, respectively. 24. On Table 6.2.1-41 on Page 6.2.1-145 (A112), delete the line break descriptions "100.6% Power- Feed Control Valve (FCV) Failure," "0% Power - Feed Control Valve (FCV) Failure," and "0% Power - Feedwater Isolation Valve (FWIV) Failure." Also revise line break descriptions "100.6% Power - No Failure" and "0% Power - No Failure" by replacing "No Failure" with "Main Steamline Isolation Valve (MSIV) Failure." 25. On Table 6.2.1-42 on Page 6.2.1-146 (A112), delete the small break description "0.1 30% Power-AFW Pump Runout Protection Failure." 26. On Table 6.2.1-43 on Page 6.2.1-147 (A112), delete the case and entries for large break analysis cases "1.4 ft^2, 100.6% Power- FCV Failure,"· "1.4 ft^2, 0% Power - FCV Failure" and "1.4 ft^2, 0% Power - FWIV Failure." Also revise the "Maximum Lower Compartment Temperature (°F)" and "Time, Tmax (sec)" values for the remaining cases.	2-113-38

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
38. (cont.)	Section 6.2.1.3.10 Tables 6.2.1-1 6.2.1-39 6.2.1-41 6.2.1-42 6.2.1-43 6.2.1-44 Figures 6.2.1-69 6.2.1-70 6.2.1-71 6.2.1-72 6.2.1-73 6.2.1-74	27. On Table 6.2.1-44 on Page 6.2.1-148 (A112), delete the case and entries for case "0.1." Also revise the "Maximum Lower Compartment Temperature (°F)" and "Time, Tmax (sec)" values for the remaining cases. Additionally, reformat the footnote to ensure the number "100.6" is on the same line as the word "power." 28. On Figure 6.2.1-69 on Page 6.2.1-221 (A112), change the title from "Compartment Temperature 1.4 ft^2/Loop, 100.6% Power AFW Runout Protection Failure" to "Compartment Temperatures 1.4 ft^2/Loop, 100.6% Power FIV Failure" and replace the figure with Insert D. 29. On FSAR Figure 6.2.1-70 (FSAR page 6.2.1-222), change the title from "Lower Compartment Pressure 1.4 ft^2 Loop, 100.6% Power AFW Runout Protection Failure" to "Lower Compartment Pressure 1.4 ft^2/Loop, 100.6% Power FIV Failure" and replace the figure with Insert E. 30. On Figure 6.2.1-71 on Page 6.2.1-223 (A112), replace the word "Temperature" with the word "Temperatures" in the title and replace the figure with Insert F. 31. On Figure 6.2.1-72 on Page 6.2.1-224 (A112), replace the figure with Insert G. 32. On Figure 6.2.1-73 on Page 6.2.1-225 (A112), replace the word "Temperature" with the word "Temperatures" in the title and replace the figure with Insert H. 33. On Figure 6.2.1-74 on Page 6.2.1-226 (A112), replace the figure with Insert I.	2-113-38
39.	Section 6.7 Table 6.7-18	1. In Section 6.7.4.1 on Page 6.7-16 (A112), under the subsection entitled "Interface Requirements," change the minimum weight of ice contained within the ice baskets in item (4) from "2.26 x 10^6 pounds" to "2.33 x 10^6 pounds." 2. In Section 6.7.6.1 on Page 6.7-22 (A112), under the subsection entitled "Design Conditions," change the minimum total weight of ice in columns in item (2)(A)(ii) from "2.26 x 10^6 lbs." to "2.33 x 10^6 lbs."	2-113-39

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Item No.	Change Area	Change Description	Change Package Number
39.	Section 6.7 Table 6.7-18	3. In Section 6.7.6.1 on Page 6.7-22 (A112), under the subsection entitled "Design Conditions," add an asterisked note to the nominal ice condenser cooling air temperature range of 10°F-15°F in item (2)(A)(iii) to indicate the Technical Specifications limit the maximum ice bed temperature to less than or equal to 27°F. 4. In Section 6.7.6.1 on Page 6.7-23 (A112), under the subsection entitled "Design Conditions," add a sentence to item (2)(C)(ii)(a) to indicate plant Technical Specifications limit the maximum ice bed temperature to less than or equal to 27°F. 5. In Table 6.7-18, Sheet 2 of 2 on Page 6.7-101 (A112), under Item 3.1 , add an asterisk to the value provided for the maximum amount of ice initially stored per unit, "3.0 x 10^6 lbs," to tie it to the asterisked note at the bottom of the table. 6. In Table 6.7-18, Sheet 2 of 2, on Page 6.7-101 (A112), under Item 3.1, change the minimum amount of ice from "2.26 x 10^6 lbs." to "2.33 x 10^6 lbs." 7. In Table 6.7-18, Sheet 2 of 2, on Page 6.7-101 (A112), under Item 3.1, add a double asterisk to the nominal temperature range of 10°F - 15°F provided for the temperature of ice and static air. Also, add a double asterisked note to the bottom of the table to indicate plant Technical Specifications limit the maximum ice bed temperature to less than or equal to 27°F.	2-113-39
40.	Table 9.2-2	1. On Table 9.2-2 (Page 21 of 79) on Page 9.2-65 (A112), change the diesel generator identified in the "Component" column from "DG 1A-A" to "DG 2B-B." 2. On Table 9.2-2 (Page 21 of 79) on Page 9.2-65 (A112), change the ERCW supply header identified in the first sentence of the "Effect on System" column from "header 2B" to "header 2A." Also change the ERCW supply header identified in the last sentence of the "Effect on System" column from "header 1A" to "header 1B." 3. On Table 9.2-2 (Page 22 of 79) on Page 9.2-66 (A112), change the ERCW valve identified in the first sentence of the "Effect on System" column from "1-FCV-067-0068-B" to "2-FCV-067-0065-B." 4. On Table 9.2-2 (Page 22 of 79) on Page 9.2-66 (A112), insert the word "None" into the "Effect on Plant" column.	2-113-40

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Item No.	Change Area	Change Description	Change Package Number
41.	Section 9.3.1.2 Table 9.3-1	1. In Section 9.3.1.2 on Page 9.3-1 (A112), change the word "non-lubricated" to "oil free" in the first sentence of the first paragraph. Also, change the word "reciprocating" to "rotary screw" in the first, second and third sentences of the first paragraph. In addition, change the words "cylinder cooling equipment" to "intercoolers" in the last sentence of the first paragraph. 2. In Section 9.3.1.2 on Page 9.3-2 (A112), replace the words "100% liquid water entrainment and other foreign matter from the compressed airstream down to 2 to 3 micron size" to "99.99% of all liquids and oil and all particulates down to 0.6 microns" in the third sentence of the last paragraph. Also change the word "three" and the number "3" to "0.9" in the last sentence of the last paragraph. 3. In Section 9.3.1.3 on Page 9.3-2 (A112), change the word "reciprocating" to "rotary screw" in the third sentence of the second paragraph. 4. In Section 9.3.1.3 on Page 9.3-3 (A112), change the word "reciprocating" to "rotary screw" in the third sentence of the second paragraph on the page. Also, replace the words "between the reciprocating compressor and" with "downstream of" in the third sentence of the second paragraph on the page. 5. On Table 9.3-1 on Page 9.3-43 (A112), under the heading "Station Air Compressors," change the "Type" from "3 Reciprocating, 1 centrifugal" to "3 Rotary Screw, 1 centrifugal." 6. On Table 9.3-1 on Page 9.3-43 (A112), under the heading "Station Air Compressors," change the "Discharge Temperature" from "110" to "100." 7. On Table 9.3-1 on Page 9.3-43 (A112), under the heading "Station Air Compressors," change "Capacity, scfm, total" to "Capacity, acfm (nominal), total." Also change the value provided for capacity from "610" to "691." 8. On Table 9.3-1 on Page 9.3-43 (A112), change the heading "Station Air Compressors A, B, C (reciprocating) Aftercoolers" to "Station Air Compressors A, B, C (rotary screw) Coolers." 9. On Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B, C (rotary screw) Coolers," change "Number" and "1 per compressor" to "Intercooler/Aftercooler" and "Integral."	2-113-41

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WBN Unit 2 FSAR A113

"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
41. (cont.)	Section 9.3.1.2 Table 9.3-1	10. On Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B , C (rotary screw) Coolers,· change the units for "Tube side flow" from "scfm (air)" to "gpm (water)." Also change the units for "Shell side flow" from "gpm (water)" to "acfm (air)." 11. On Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B, C (rotary screw) Coolers," change the "Tube side flow" from "610" to "54." Also change the "Shell side flow" from "12.4" to "691." 12. On Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B, C (rotary screw) Coolers," delete the entries for shell side design pressure and tube side design pressure. 13. On Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B, C (rotary screw) Coolers," change the "Shell material" from "Carbon steel" to "Stainless steel," the "Tube material" from "Admiralty" to "Stainless steel," and the "Design code" from "ASME VIII" to "Manufacturer's standard." 14. On FSAR Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B, C (rotary screw) Coolers," change the "Discharge Temperature" from "110" to "105." 15. On FSAR Table 9.3-1 on Page 9.3-43 (A112), under the revised heading "Station Air Compressors A, B, C (rotary screw) Coolers," change the "Design Temperature" from "340" to "428."	2-113-41
42.	Table 3.9-26	On Table 3.9-26 (Sheet 5 of 6) on Page 3.9-113 (A112), add valves FCV-43-433, FCV-43-434, 1-FCV-43-435 and 1-FCV-43-436 as Category A, Class B, valves for the Radiation Sampling System.	2-113-42
43.	Section 9.2.7.1	In FSAR Section 9.2.7.1 on Page 9.2-40 (A112), add a reference, at the end of the first paragraph on Page 9.2-40 (A112), to Westinghouse Letters WBT-D-5007, dated August 21, 2014; WBT-D-5096, dated October 24, 2014; and WBT-D-5142, dated December 4, 2014.	2-113-43
44.	Section 9.2.2.4	1. In FSAR Section 9.2.2.4 on Page 9.2-20 (A112), change the description of the conditions for the highest flow demand under design basis accident conditions with offsite power available in example (2) from "one unit in startup and the other in LOCA Recirculation" to "Unit 2 in startup and Unit 1 in LOCA Recirculation."	2-113-44

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
44. (cont.)	Section 9.2.2.4	2. In FSAR Section 9.2.2.4 on Page 9.2-20 (A112), change the description of the conditions for the highest heat removal demand under design basis accident conditions with offsite power available in example (2) from "one unit in cold shutdown and the other unit in LOCA Recirculation" to "Unit 2 in Cold Shutdown and Unit 1 in LOCA Recirculation." 3. In FSAR Section 9.2.2.4 on Page 9.2-20 (A112), change the highest flow demand in example (3) from 10,200 gpm to 7,900 gpm. 4. In FSAR Section 9.2.2.4 on Page 9.2-20 (A112), change the description of the conditions for the highest heat removal demand under design basis accident conditions with a LOOP coupled with a Loss of Train A in example (3) from "one unit in cold shutdown and the other unit in LOCA Recirculation" to "Unit 2 in either Cold Shutdown or Initial Refueling (equally demanding) and Unit 1 in LOCA Recirculation or Unit 1 in Initial Refueling and Unit 2 in LOCA Recirculation." 5. In FSAR Section 9.2.2.4 on Page 9.2-21 (A112), change the description of the conditions for the highest flow demand under design basis accident conditions with a LOOP coupled with a Loss of Train B in example (4) from "one unit in either cold shutdown or initial refueling (equally demanding) and the other in LOCA Recirculation" to "Unit 2 in either cold shutdown or initial refueling (equally demanding) and Unit 1 in LOCA Recirculation."	2-113-44

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
44. (cont.)	Section 9.2.2.4	6. In FSAR Section 9.2.2.4 on Page 9.2-21 (A112), change the description of the conditions for the highest heat removal demand under design basis accident conditions with a LOOP coupled with a Loss of Train B in example (4) from "one unit in cold shutdown and the other unit in LOCA Recirculation" to "Unit 1 in cold shutdown and Unit 2 in LOCA Recirculation." 7. In FSAR Section 9.2.2.4 on Page 9.2-21 (A112), change the highest heat removal demand in example (4) from 153,600 kBTU/hr to 136,800 kBTU/hr.	2-113-44
45.	Table 6.2.4-1	1. On FSAR Table 6.2.4-1 , Page 57, revise the sketch for containment penetrations X-99 and X-100 by deleting the words "Closed System Outside Containment." 2. On FSAR Table 6.2.4-1, Page 57, delete the reference to Note 15 included in the "Notes" column for containment penetrations X-99 and X-100.	2-113-45
46.	Table 3.9-25	On FSAR Table 3.9-25 (Sheet 16 of 23) on Page 3.9-101 (A112), entitled "Valves Required To Be Active For Design Basis Events," delete the entries for valves FCV-67-223 and 1-FCV-67-458.	2-113-46
47.	Table 14.2-1	1. On FSAR Table 14.2-1 (Sheet 22 of 89) on Page 14.2-59 (A112), revise Prerequisite 2 by deleting the period at the end of the first sentence and adding the words "for the primary SIS to reactor coolant loop check valves on the charging lines. The RCS is at a pressure of ≥ 1380 psig and a temperature of ≥ 527°F for the remaining primary safety injection cold and hot leg check valves and the accumulator discharge check valves." 2. On FSAR Table 14.2-1 (Sheet 23 of 89) on Page 14.2-60 (A112), revise Test Method 6 by inserting the words "on the charging lines" between the words "valves" and "will open." Also, revise Test Method 6 by deleting the period at the end of the first sentence and adding the words "and the remaining primary safety injection to reactor coolant loop check valves will open with the RCS at a pressure of ≥ 1380 psig and a temperature of ≥ 527°F." 3. On FSAR Table 14.2-1 (Sheet 24 of 89) on Page 14.2-61 (A112), revise Acceptance Criteria 5 by inserting the words "on the charging lines" between the words "valves" and "will open." Also, revise Acceptance Criteria 5 by deleting the period at the end of the first sentence and adding the words "and the remaining primary SIS to RCS check valves and the accumulator discharge check valves will open with the RCS at a pressure of ≥ 1380 psig and a temperature of ≥ 527°F."	2-113-47

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
48.	Sections 8.1.2 8.2.1	1. For Section 8.1.2, on Page 8.1-1 (A112), insert the word, "normally" between the words, "power" and "supplies" in third sentence of the first paragraph. 2. For Section 8.1.2 on Page 8.1-1 (A112), insert the following sentence between third and fourth sentences of the first paragraph: "Alternatively, offsite power to the Class 1E system can also be supplied though CSSTs B or A, but not both simultaneously, if the normal CSST is unavailable." 3. For Section 8.2.1, on Page 8.2-1 (A112), replace the phrase, "also been made that show" with the phrase, "shown that" in the second sentence of the fifth paragraph. 4. For Section 8.2.1, on Page 8.2-1 (A112), replace the word, "transformer" in two places with "CSST" in the second sentence of the fifth paragraph. 5. For Section 8.2.1.2, on Page 8.2-3 (A112), insert the following sentence at the end of the second paragraph of the section: "The primary winding of each transformer has an automatic load-tap changer unit which will adjust voltage based on the normally connected start bus." 6. For Sections 8.2.1.3 and 8.2.1.4, on Page 8.2-5 (A112), capitalize "turbine building" (two places on page) and "auxiliary building" (once on page). 7. For Section 8.2.1.5, on Page 8.2-6 (A112), insert the word, "also" between the words, "can" and "be" in the second sentence of the first paragraph at the top of page. 8. For Section 8.2.1.5, on Page 8.2-6 (A112), delete the word, "either" and the phrase, "or one immediate and one delayed access circuit in accordance with Regulatory Guide 1.32, position C.1.a, requirements for acceptable designs," in the second sentence of the first paragraph at the top of page.	2-113-48

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
48. (cont.)	Sections 8.1.2 8.2.1	9. For Section 8.2.1.5, on Page 8.2-8 (A112), insert the phrase, "of the Class 1E power system," between the words, "transfers" and "are" in the last sentence of the second paragraph from the top of the page. 10. For Section 8.2.1.6, on Page 8.2-9 (A112), add "s" to make plural the word, "Board" in the bold section subtitle entitled, "**6.9kV Common Switchgear C and D and Start Board A and B**." 11. For Section 8.2.1.6, on Page 8.2-10 (A112), capitalize the word "class" in the first sentence of the next to last paragraph at the bottom of the page. 12. For Section 8.2.1.6, on Page 8.2-11 (A112), insert the word, "Building" between the words, "Turbine" and "Distribution," in the first sentence of the second paragraph under the subtitle entitled, "**6.9kV Start Boards A & B, Unit Boards and Common Boards Control Power**." 13. For Section 8.2.1.6, on Page 8.2-12 (A112), delete the "s" from the word "breakers" in the second sentence of the first paragraph under the subtitle entitled, "**6.9kV Unit Board 1B, 1C, 2B, 2C Breaker Control**" at the top of the page. 14. For Section 8.2.1.8, on Page 8.2-17 (A112), relocate the last sentence of the third paragraph that reads, "A load shedding scheme is provided to reduce the BOP loads under certain conditions, but no credit is taken for load shedding in the TSS" to the beginning of the fifth paragraph. 15. For Section 8.2.1.8, on Page 8.2-17 (A112), delete the phrase, "(but not both simultaneously)" from the first sentence of the fourth paragraph. 16. For Section 8.2.1.8, on Page 8.2-17 (A112), replace the phrase, "an immediate or delayed source" with the word, "a" in the first sentence in the fourth paragraph.	2-113-48

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"Summary Listing of A113 FSAR Changes"

Item No.	Change Area	Change Description	Change Package Number
48. (cont.)	Sections 8.1.2 8.2.1	17. For Section 8.2.1.8, on Page 8.2-17 (A112), replace the phrase, "used as a delayed source," in the third sentence of the fourth paragraph with the phrase, "USSTs are used." 18. For Section 8.2.1.8, on Page 8.2-17 (A112), insert the following sentence between the fourth and fifth sentences of the fourth paragraph, "Due to independence limitations, CSST A and B cannot be credited for supply of both offsite power sources simultaneously." 19. For Section 8.2.1.8, on Page 8.2-18 (A112), delete the phrase, "with one exception." from the first sentence of the second paragraph from top of page and delete the second sentence of same paragraph that begins, "The diesel generator..." 20. For Section 8.2.1.8, on Page 8.2-19 (A112), replace "1E" with "Class 1E" in five locations in the fourth and fifth paragraphs from top of the page.	2-113-48
49.	Table 9.2-18	1. On FSAR Table 9.2-8, Page 9.2-129 (A112), add a reference to a new Note 1 to the subheading for the Component Cooling Pumps. 2. Also add Note 1 to the bottom of the Table 9.2-8, Page 9.2-129 (A112), indicating the rated capacity of 6000 gpm at 190 feet of head provided in the table for the Component Cooling Pumps is the original design point for the pumps however, the pumps are capable of providing a flow of 8650 gpm at 128.4 feet of head.	2-113-49

ENCLOSURE 2

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"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)

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"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)
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3	3.8.4-109	3.8.4	3.8.4-17	Security Related, 10CFR2.390(d)(1)
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3	3.8.4-111	3.8.4	3.8.4-19	Security Related, 10CFR2.390(d)(1)
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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)
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8	8.1-21	8.1	8.1-1	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 A113
"Summary of Redacted Pages"

Chapter	Page(S)	Section No.	Figure No.	Basis For Redaction
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	12.4-7	12.4	12.4-1	Security Related, 10CFR2.390(d)(1)

ENCLOSURE 3

WBN Unit 2 FSAR A113
"List of Files And File Sizes
On The Security-Related OSM (OSM #1)"

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
TVA_WBN-2_FSAR_Files	
001_TVA_WB_FSAR_TOC.pdf	369,627
002_TVA_WB_FSAR_LRP.pdf	74,271
003_TVA_WB_FSAR_Section_1.pdf	4,370,408
004_TVA_WB_FSAR_Section_2_A.pdf	17,779,331
005_TVA_WB_FSAR_Section_2_B_Part_1_of_9.pdf	41,041,945
005_TVA_WB_FSAR_Section_2_B_Part_2_of_9.pdf	16,705,799
005_TVA_WB_FSAR_Section_2_B_Part_3_of_9.pdf	48,336,088
005_TVA_WB_FSAR_Section_2_B_Part_4_of_9.pdf	36,803,033
005_TVA_WB_FSAR_Section_2_B_Part_5_of_9.pdf	42,823,124
005_TVA_WB_FSAR_Section_2_B_Part_6_of_9.pdf	49,064,255
005_TVA_WB_FSAR_Section_2_B_Part_7_of_9.pdf	45,916,764
005_TVA_WB_FSAR_Section_2_B_Part_8_of_9.pdf	47,912,599
005_TVA_WB_FSAR_Section_2_B_Part_9_of_9.pdf	21,866,631
006_TVA_WB_FSAR_Section_2_C.pdf	1,040,985
007_TVA_WB_FSAR_Section_2_D.pdf	30,357,493
008_TVA_WB_FSAR_Section_2_E.pdf	46,980,670
009_TVA_WB_FSAR_Section_3_A.pdf	1,984,292
010_TVA_WB_FSAR_Section_3_B.pdf	7,112,568
011_TVA_WB_FSAR_Section_3_C.pdf	29,390,485
012_TVA_WB_FSAR_Section_3_D.pdf	10,885,963
013_TVA_WB_FSAR_Section_4.pdf	25,447,063
014_TVA_WB_FSAR_Section_5.pdf	9,429,596
015_TVA_WB_FSAR_Section_6_A.pdf	24,659,066
016_TVA_WB_FSAR_Section_6_B.pdf	9,768,066
017_TVA_WB_FSAR_Section_7.pdf	13,997,138
018_TVA_WB_FSAR_Section_8.pdf	29,377,113

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
019_TVA_WB_FSAR_Section_9_A.pdf	23,758,518
020_TVA_WB_FSAR_Section_9_B.pdf	15,364,325
021_TVA_WB_FSAR_Section_10.pdf	13,805,875
022_TVA_WB_FSAR_Section_11.pdf	3,331,906
023_TVA_WB_FSAR_Section_12.pdf	5,668,327
024_TVA_WB_FSAR_Section_13.pdf	3,173,709
025_TVA_WB_FSAR_Section_14.pdf	958,372
026_TVA_WB_FSAR_Section_15A.pdf	28,076,049
026_TVA_WB_FSAR_Section_15B.pdf	35,824,745
027_TVA_WB_FSAR_Section_16.pdf	176,612
028_TVA_WB_FSAR_Section_17.pdf	178,496
Total	**743,811,307**
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

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
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
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**

ENCLOSURE 3
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 - List of Files on *Security-Related OSM*

File Name	File Size - Bytes
TVA_WBN-2_Oversized_FSAR_Table	
001_TVA_WB_FSAR_Table_6.2.4-1.pdf	1,281,259
Total	**1,281,259**

ENCLOSURE 4

WBN Unit 2 FSAR A113
"List of Files And File Sizes
On The Publicly Available OSM (OSM #2)"

ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
TVA_WBN-2_FSAR_Files	
001_TVA_WB_FSAR_TOC.pdf	369,627
002_TVA_WB_FSAR_LRP.pdf	74,271
003_TVA_WB_FSAR_Section_1.pdf	564,341
004_TVA_WB_FSAR_Section_2_A.pdf	17,443,267
005_TVA_WB_FSAR_Section_2_B_Part_1_of_9.pdf	39,958,219
005_TVA_WB_FSAR_Section_2_B_Part_2_of_9.pdf	16,705,799
005_TVA_WB_FSAR_Section_2_B_Part_3_of_9.pdf	48,336,088
005_TVA_WB_FSAR_Section_2_B_Part_4_of_9.pdf	36,803,033
005_TVA_WB_FSAR_Section_2_B_Part_5_of_9.pdf	42,823,124
005_TVA_WB_FSAR_Section_2_B_Part_6_of_9.pdf	49,064,255
005_TVA_WB_FSAR_Section_2_B_Part_7_of_9.pdf	39,226,159
005_TVA_WB_FSAR_Section_2_B_Part_8_of_9.pdf	41,654,743
005_TVA_WB_FSAR_Section_2_B_Part_9_of_9.pdf	21,866,631
006_TVA_WB_FSAR_Section_2_C.pdf	1,040,985
007_TVA_WB_FSAR_Section_2_D.pdf	30,357,493
008_TVA_WB_FSAR_Section_2_E.pdf	45,601,714
009_TVA_WB_FSAR_Section_3_A.pdf	1,692,842
010_TVA_WB_FSAR_Section_3_B.pdf	5,711,979
011_TVA_WB_FSAR_Section_3_C.pdf	24,558,428
012_TVA_WB_FSAR_Section_3_D.pdf	10,616,956
013_TVA_WB_FSAR_Section_4.pdf	25,447,063
014_TVA_WB_FSAR_Section_5.pdf	9,429,596
015_TVA_WB_FSAR_Section_6_A.pdf	21,777,597
016_TVA_WB_FSAR_Section_6_B.pdf	9,768,066
017_TVA_WB_FSAR_Section_7.pdf	13,997,138
018_TVA_WB_FSAR_Section_8.pdf	26,416,969

Note: Byte amounts in italics are redacted files.

ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
019_TVA_WB_FSAR_Section_9_A.pdf	23,497,120
020_TVA_WB_FSAR_Section_9_B.pdf	14,149,080
021_TVA_WB_FSAR_Section_10.pdf	13,805,875
022_TVA_WB_FSAR_Section_11.pdf	3,331,906
023_TVA_WB_FSAR_Section_12.pdf	1,400,992
024_TVA_WB_FSAR_Section_13.pdf	3,173,709
025_TVA_WB_FSAR_Section_14.pdf	958,372
026_TVA_WB_FSAR_Section_15A.pdf	28,076,049
026_TVA_WB_FSAR_Section_15B.pdf	35,824,745
027_TVA_WB_FSAR_Section_16.pdf	176,612
028_TVA_WB_FSAR_Section_17.pdf	178,496
Total	**705,879,339**
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

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ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
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
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**

Note: Byte amounts in italics are redacted files.

ENCLOSURE 4
TVA Watts Bar Nuclear Plant Unit 2
FSAR Amendment 113 List of Files on *Publicly Available OSM*

File Name	File Size - Bytes
TVA_WBN-2_Oversized_FSAR_Table	
001_TVA_WB_FSAR_Table_6.2.4-1.pdf	1,281,259
Total	**1,281,259**

Note: Byte amounts in italics are redacted files.