WBN2Public Resource

From: Crouch, William D [wdcrouch@tva.gov]
Sent: Wednesday, May 18, 2011 5:06 PM
To: Poole, Justin; Milano, Patrick; Campbell, Stephen
Cc: Bryan, Robert H Jr; Smith, James D; Smith, James D
Subject: Commitments and SSER Open Items
Attachments: 05-17 - OPEN COMMITMENTS (MAXIMO) - NRR SUBMITTAL REQUIRED.pdf - Adobe Acrobat Professional.pdf; Updated SSER 22-23 Open Items Plan.docx

I had Tommy Elton search our commitment tracking database for commitments where we said we would submit something to NRC. The attached list resulted. It does not have the items for the last week (Tommy is behind since he is working on the Tech Spec revision) and it has some items where we have already made the submittal but have not closed the item in the database. I have someone working on cleaning these items up and documenting that they are complete.

I have also attached our version of SSER 22/23 Appendix HH Open Items. The due dates shown are the dates when items have been promised to be provided to TVA Licensing. In general, the date to you would be within about one week of that date. Items shown as "Complete" means that TVA Licensing has the input and will include the item in the next closure letter. When an item has been submitted to you I remove it from this list. When the organization is highlighted in yellow, the item is an inspection item rather than a submittal item. For these, a package will be provided to the appropriate NRC person.

In the near future we need to start statusing these lists as well as the Bucket List.

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MESSAGE	1258	5/18/2011 5:06:16 PM
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Updated SSER 22-23 Open Items Plan.docx	32428	

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OPEN COMMITMENTS (ON MAXIMO) - NRR SUBMITTAL REQUIRED

RESPONSIBLE	IPS #	MAXIMO #	SOURCE	DUE DATE / MILESTONE	PKG REC'D / CLOSED*	REQUIRED ACTION
Engineering - Civil		111027893	IPEE ---------- NRR	/ PRIOR to fuel load		Prior to fuel load, a final report will be submitted following certain validation activities as described in the IPEEE Design Report (Enclosure 1). [Item 1 of Enclosure 2 of letter T02 100430 002]
Engineering - Electrical		112145148	RAI Response - SSER22 Open Items ---------- NRR			NRC will be notified when the physical work has been completed for DCNs 53421 and 54636. (response to action item 33) [Item 2. of Enclosure 4 of letter T02 110406 004]
Engineering - I and C		111900262	RAI Response - I and C ---------- NRR	01/31/2011		The OM interface, however, creates an additional digital communications path to a non-safety-related system. During the design review, TVA commented that the path needed to be eliminated or isolated. The final determination was made to eliminate the path. Westinghouse will eliminate the description of this path from the associated documentation by January 31, 2011 [Letter Item 18]. [Item 22 of Enclosure 4 of letter T02 101005 001]
Engineering - I and C		111901446	RAI Response - I and C ---------- NRR			The Common Q PAMS document discrepancies identified in TVA letter to NRC dated December 22, 2010, Attachment 15, will be corrected in the next revision of the identified documents. TVA will submit the revised documents within two weeks of receipt from Westinghouse. (Item 5. of Enclosure 4 of T02 101222 006)
Engineering - I and C		112116781	FSAR RAI ---------- NRR			Attachment 8 contains the proprietary version of the GA-ESI qualification report 04508903-1TR, "Seismic Qualification Test Results RM-1000 and Current-to Frequency (I/F) Converter," original release, dated April 1999. TVA will submit the nonproprietary version of this GA-ESI qualification report and its affidavit for withholding information from public disclosure within two weeks of receipt from the vendor. (Enclosure 4 of letter T02 110331 005)
Engineering - I and C		112177792	FSAR RAI ---------- NRR			TVA Engineering reviewed and approved proprietary versions of GA-ESI documents 04507007-1TR, 04508005 and 04508006 and these documents will be submitted within two weeks of receipt from GA-ESI. (Letter Item #2 [OI-346]) [Item 4. of Enclosure 4 of letter T02 110415 001]
Engineering - I and C		111334414	RAI Response - FSAR ---------- NRR	11/30/2010		A non-proprietary version of and an affidavit for withholding for 16690-QTR, Revision 0 will be submitted to the NRC by November 30, 2010. [Item 6. of Enclosure 2 of letter T02 100731 001]

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Engineering - I and C		111620753	RAI Response - I and C ---------- NRR	11/30/2010		Item (4) will be addressed by Westinghouse developing a WBN Unit 2 Common Q PAMS Specific Test Plan to compensate for the fact that NRC disapproved WNA-PT-00058-GEN during the original Common Q review. TVA will submit the test plan document to NRC by November 30, 2010. NRC RAI Matrix Item 245 tracks the commitment to develop and submit the WBN Unit 2 Specific Test Plan [Letter Item 8]. [Item 4. of Enclosure 4 of letter T02 101005 001]
Engineering - I and C		111620928	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of "Nuclear Automation Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System - System Requirements Specification," WNA-DS-01617-WBT, Revision 2 dated August 2010. [Item 1.f. of Enclosure 2 of T02 101026 011]
Engineering - I and C		111331649	RAI Response - I and C ---------- NRR	03/11/2011		Hardware details will be provided when the hardware drawings are updated to the as-built configuration. Westinghouse currently shows this activity to complete September 15, 2010. TVA will submit a hardware listing by October 1, 2010, two weeks after TVA receipt from Westinghouse. (RAI Item Number 14 [Matrix Item 120]) [Item 5. from Enclosure 2 of letter T02 100730 002) ---------- 10/05/2010 Letter to the NRC (T02 101005 001) changed the due date to 03/11/2011.
Engineering - I and C		112250471	RAI ----- NRR			The Westinghouse qualification report for the IITAs has not been completed. The proprietary and non-proprietary versions and the affidavit for withholding will be submitted within two weeks of receipt from Westinghouse. (Letter Item #14/375 [Item 3]) [Item 7 of Enclosure 4 of letter T02 110506 002]
Engineering - I and C		112177783	FSAR RAI ---------- NRR			The non-proprietary version of GA-ESI report 04509050, RM-1000 EMC Test Report and affidavit for withholding will be submitted within two weeks of receipt from GA-ESI. (Letter Item #1 [OI-340]) [Item 3. of Enclosure 4 of letter T02 110415 001]
Engineering - I and C		111620935	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of "Nuclear Automation Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System - System Design Specification," WNA-DS-01667-WBT, Revision 2, dated September 2010. [Item 1.g. of Enclosure 2 of T02 101026 011]

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Engineering - I and C		10174938	Eagle-21 Process Protection System ---------- NRR	/ PRIOR to fuel load		The last part of item 4 of enclosure 2 of the reference reads "TVA will submit the results of this survey to the NRC. The submittal will include a description of the methodologies and test equipment that were used to perform the survey, a comparison between on-site and factory EMI/RFI test results, and an assessment of the margin between the measured EMI/RFI spectrum and a conservative threshold above which EMI/RFI problems could occur."
Engineering - I and C		111334372	RAI Response - FSAR ---------- NRR	01/14/2011		The qualification for PAMS Cabinet and Components and Main Control Room Components will be submitted to the NRC by January 14, 2011. [Item 3. of Enclosure 2 of letter T02 100731 001]
Engineering - I and C		112177753	FSAR RAI ---------- NRR			TVA will perform an EMI survey of the containment high range radiation monitors after they are installed in WBN Unit 2 and submit the results to the NRC within two weeks of the survey being completed. (Letter Item #4 [OI-355]) [Item 1. of Enclosure 4 of letter T02 110415 001]
Engineering - I and C		112177768	FSAR RAI ---------- NRR	04/30/2011		Based on the above action plan, TVA will resolve the issues with the GA-ESI CGD of CGI used in the WBN Unit 2 monitors and submit documentation of the resolution to the NRC by: GA-ESI procedure OP-7.3-240 revision: April 30, 2011 (Letter Item #3 [OI-353]) [Item 2. - first part of Enclosure 4 of letter T02 110415 001]
Engineering - I and C		111620882	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of “Tennessee Valley Authority (TVA), Watts Bar Unit 2 (WBN2), Post-Accident Monitoring System (PAMS), Licensing Technical Report,” Revision 1, WNA-LI-00058-WBT-P, dated October 2010. [Item 1.a. of Enclosure 2 of T02 101026 011]
Engineering - I and C		111620889	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of “Nuclear Automation, Watts Bar 2 NSSS Completion Program, I&C Projects, Software Requirements Specification for the Post Accident Monitoring System,” WNA-SD-00239-WBT, Revision 2, dated September 2010. [Item 1.b. of Enclosure 2 of T02 101026 011]

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Engineering - I and C		111620770	RAI Response - I and C ---------- NRR	12/07/2010		Revision 2 of the Common Q PAMS Licensing Technical Report will include the applicability of the guidance in the Common Q PAMS Topical Report. Revision 1 [sic 2] of the Licensing Technical Report will be submitted to NRC by December 7, 2010 [Letter Item 66]. [Item 14. of Enclosure 4 of letter T02 101005 001]
Engineering - I and C		111620967	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Affidavit for withholding for "Nuclear Automation Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System - System Design Specification," WNA-DS-01667-WBT, Revision 2, dated September 2010. [Item 1.k. of Enclosure 2 of T02 101026 011]
Engineering - I and C		111900179	RAI Response - I and C ---------- NRR	10/29/2010		The scope of NABU-DP-00014-GEN includes the design and implementation processes for the application development. For a more detailed description of the design process described in NABU-DP-00014-GEN, please refer to the Design Process for AP1000 Common Q Safety Systems, WCAP-15927 on the AP1000 docket. Since this is a Westinghouse process document that is not specifically referenced in the SRS, it will be removed in the next revision of the document. The next revision of the SRS will be submitted to NRC by October 29, 2010 [Letter Item 31(a)]. [Item 17. of Enclosure 4 of letter T02 101005 001]
Engineering - I and C		111620959	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Affidavit for withholding for "Nuclear Automation Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System - System Requirements Specification," WNA-DS-01617-WBT, Revision 2, dated August 2010. [Item 1.j. of Enclosure 2 of T02 101026 011]
Engineering - I and C		111092634	RAI Response - I AND C ---------- NRR	12/03/2010		The report on the final resolution of the Eagle 21 Rack 2 RTD input issue will be provided no later than December 3, 2010. This item has been added to the "Licensee Open Items to be Resolved for SER Approval List," as Item 128. [Item 6. of Enclosure 2 of letter T02 100621 001]
Engineering - I and C		111620761	RAI Response - I and C ---------- NRR	02/14/2011		The scope of the WBN BISI indications are based on engineering calculation WBPEVAR8807025 Rev. 7 (Attachment 10). This calculation has not been updated for Unit 2. The calculation does include Common and Unit 2 equipment required to support Unit 1 operation. The calculation will be submitted to NRC by February 14, 2011 [Letter Item 62F]. [Item 11. of Enclosure 4 of letter T02 101005 001]

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Engineering - I and C		112043571	FSAR RAIs ---------- NRR			The General Atomics Electronics Systems Inc. (GA-ESI) affidavits for withholding and non-proprietary versions of attachments 5, 6, 7, 8 and 23 will be submitted within two weeks of receipt from GA-ESI. [Cover Letter] [Item 2. of Enclosure 4 of letter T02 110225 004]
Engineering - I and C		111620949	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of “Dynamic Similarity Analysis for the Watts Bar Unit 2 Post Accident Monitoring System (PAMS),” CNEQT-10-44, Revision 0, dated September 28, 2010” [Item 1.h of Enclosure 2 of T02 101026 011]
Engineering - I and C		111901406	RAI Response - I and C ---------- NRR	01/28/2011		The RM-1000 qualification reports 04038903-QSR and 04038903-7SP will be submitted no later than January 28, 2011. (Item 4. of Enclosure 4 of T02 101222 006)
Engineering - I and C		112058497	FSAR RAI ---------- NRR	03/29/2011		WNA-LI-00058-WBT-P, “Post-Accident Monitoring System (PAMS) Licensing Technical Report,” Revision 3, (proprietary) dated March 2011, will be submitted no later than March 29, 2011.
Engineering - I and C		10175684	Regulatory Framework ---------- NRR	10/31/2009		Item 4 of Enclosure 1 of the Reference reads "Provide system description and information on QA provisions for the Unit 2 Radiation Monitoring System on or before October 31, 2009."
Engineering - I and C		111620955	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Affidavit for withholding for “Nuclear Automation, Watts Bar 2 NSSS Completion Program, I&C Projects, Software Requirements Specification for the Post Accident Monitoring System,” WNA-SD-00239-WBT, Revision 2, dated September 2010. [Item 1.i. of Enclosure 2 of T02 101026 011]
Engineering - I and C		111901209	RAI Response - I and C ---------- NRR			FSAR Chapter 3.10 will be updated to include the qualified radiation monitoring equipment in a future FSAR amendment. (Item 3. of Enclosure 4 of T02 101222 006)

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Engineering - I and C		112177804	FSAR RAI ---------- NRR			An affidavit for withholding Westinghouse document NO-WBT-002, “Westinghouse Incore Information Surveillance & Engineering (WINCISE™) System Technical Manual,” Section 2, “Hardware Description,” will submitted within two weeks of receipt from Westinghouse. (Letter Item #7 [OI-360]) [Item 5. of Enclosure 4 of letter T02 110415 001]
Engineering - I and C		111620764	RAI Response - I and C ---------- NRR	04/08/2011		Attachment 41 contains the proprietary version of the Common Q Software Requirements Specification Post Accident Monitoring System 00000-ICE-3238 Rev. 5 and the affidavit for withholding. The nonproprietary version will be submitted to NRC by April 8, 2011 [Letter Item 96]. [Item 16. of Enclosure 4 of letter T02 101005 001]
Engineering - I and C		112177773	FSAR RAI ---------- NRR	09/15/2011		Based on the above action plan, TVA will resolve the issues with the GA-ESI CGD of CGI used in the WBN Unit 2 monitors and submit documentation of the resolution to the NRC by: Resolution of CGD of CGI used in WBN Unit 2 RM-1000 monitors: September 15, 2011 (Letter Item #3 [OI-353]) [Item 2. - last part of Enclosure 4 of letter T02 110415 001]
Engineering - I and C		111902413	RAI Response - FSAR ---------- NRR			The nonproprietary version of Enclosure 4 and the applications for withholding will be provided two weeks after receipt from Westinghouse. [RAI 15.0.0 - 1.b] [Item 14. of Enclosure 6 of letter T02 101210 001]
Engineering - I and C		111620766	RAI Response - I and C ---------- NRR	02/11/2011		The next IV&V report will include the Design Phase Requirements Traceability Matrix. The Design Phase IV&V Report will be submitted to NRC by February 11, 2011 [Letter Item 15]. [Item 20. of Enclosure 4 of letter T02 101005 001]
Engineering - I and C		111620901	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of Common Q PAMS Comparison of Tested Conditions for the AI687 and AI688 Common Q Modules to the Watts Bar Unit 2 (WBT) Requirements (EQ-EV-62-WBT, Revision 0), dated September 10, 2010. [Item 1.d. of Enclosure 2 of T02 101026 011]

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Engineering - I and C		111620894	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of "AI687 and AI688 for use in Common Q PAMS EMC Test Report and Installation Limitations," (EQ-QR-64- GEN, Revision 0), dated September 10, 2010. [Item 1.c. of Enclosure 2 of T02 101026 011]
Engineering - I and C		111331664	RAI Response - I and C ---------- NRR	02/25/2011		Westinghouse is scheduled to issue the FAT report to TVA on October 22, 2010. TVA will submit this report by November 8, 2010, two weeks after receipt from Westinghouse. (RAI Item Number 14 [Matrix Item 120] [Item 6. from Enclosure 2 of letter T02 100730 002) ---------- 10/05/2010 Letter to the NRC (T02 101005 001) changed the due date to 02/25/2011.
Engineering - I and C		111621260	RAI Response - I and C ---------- NRR	04/29/2011		(Letter Item 9) - This item will be corrected by a design change based on the following: The Unit 1/Unit 2 Eagle 21 configuration has a sufficient number of spare Narrow Range (NR) and Wide Range (WR) RTD inputs available on the installed ERI-01 and ERI-02 boards to wire these spare inputs to the active channels. The spare input will provide the parallel resistance to resolve the problem. The WR RTD inputs provide the same input impedance as the NR RTD inputs. Jumpers will be installed at the Eagle 21 termination frame to provide a parallel connection from each existing NR RTD input to an existing spare input, thus simulating the hardware connection for shared RTDs. Therefore, as configured, the Rack 2 Loop Calculation Processor (LCP) will provide the correct temperature calculation for the NR RTDs. The design change will be issued by April 29, 2011. (first part of Item 5. of Enclosure 4 of letter T02 101029 002)
Engineering - I and C		111334376	RAI Response - FSAR ---------- NRR	11/30/2010		A non-proprietary version of and an affidavit for withholding for EQ-EV-39-WBT, Revision 1 will be submitted to the NRC by November 30, 2010. [Item 4. of Enclosure 2 of letter T02 100731 001]
Engineering - I and C		111620922	RAI Response - I and C ---------- NRR	04/29/2011		By April 29, 2011, the demarcated proprietary documents, nonproprietary documents, as well as the withholding affidavits for the proprietary documents listed in commitments i, j and k below, will be provided to NRC. Demarcated proprietary and nonproprietary versions of "Environmental and Seismic Test Report, AI687 & AI688 Modules for use in Common Q PAMS," (EQLR-171, Revision 0), dated September 10, 2010. [Item 1.e. of Enclosure 2 of T02 101026 011]

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Engineering - I and C		112249893	FSAR RAI ---------- NRR			Part III, Sections 2.3 and 3.4.3 provide qualitative statements regarding the need to control RCS pressure to maintain sub-cooling margin such that natural circulation would not be adversely affected by large bubble formation in the reactor vessel. Both statements convey the desired information, but for consistency Section 3.4.3 will be revised to say "minimize void formation" rather than "prevent void formation" and thereby be consistent with Section 2.3. These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Letter Item 33. [NRC Question RAI FPR III-7]) (Item 8. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		111334367	RAI Response - FSAR ---------- NRR	11/30/2010		The analysis for Panels 2-L-11A and 2-L-11B will be submitted to the NRC by November 30, 2010. [Item 2. of Enclosure 2 of letter T02 100731 001]
Engineering - I and C		112249887	FSAR RAI ---------- NRR			It is TVA's position that only qualified personnel are allowed and required to make the decisions as to which of the three conditions apply to each individual circumstance. Only Sections 14.8.1.a and 14.8.1.b apply to ERFBS and radiant energy shields. Section 14.8.1.c does not apply to ERFBS configurations. Section 14.8.1.c will be clarified to denote that it does not apply to ERFBS and radiant energy shields. (Letter Item 27. [NRC Question RAI FPR II-36]) (Item 7. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112249875	FSAR RAI ---------- NRR	/ PRIOR to fuel load		The referenced conflicts and inconsistencies between Part II, Section 14.2 "Water Supply" and the "Fire Pump Inoperability and Compensatory Actions" Table has been reviewed and Section 14.2 and the Table has been revised to reflect consistency between the two parts. The revised table is included as Attachment 2 to this letter and will be incorporated into the FPR as part of the As-Constructed update of the FPR prior to Unit 2 initial fuel load. (Letter Item 24. [NRC Question (RAI FPR II-34)]) (Item 6. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112249865	FSAR RAI ---------- NRR			A review of the HVAC configuration control drawings (47A381 series, 47W866 series, and 47W920 series) has been performed to determine the correct identification number and fire resistance rating of the damper. The correct damper number is 1-ISD-31-2516 and correct fire rating of the damper is 3 hours. A review of the damper information contained in Table 14.8.2 against the Damper tables provided in Part VI has also been completed. The information in the tables (Table 14.8.2 and Part VI Damper tables) has been verified and the discrepancies corrected. These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Letter Item 9. [NRC Question RAI FPR II-19]) (Item 5. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112249861	FSAR RAI ---------- NRR			Part II and Part VI were corrected to show the damper (2-ISD-31-3872) is in the fire barrier separating rooms 713.0-A29 (not 737-A9) and 737.0-A8. These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Letter Item 8. [NRC Question RAI FPR II-18]) (Item 4. of Enclosure 2. of letter T02 110506 001)

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Engineering - I and C		112249919	FSAR RAI ---------- NRR			TVA's response to Letter Item 42 [NRC Question RAI FPR V-3] states: [1] Part IV, Section 3.3 is incorrect. The second sentence should read "The number in ( ) is the number available for shutdown." This deletes the reference to Unit 1 only. [2] A review of the FPR revealed three other places where the discussion concerns both units: 1. Table 14.3, item 14.3.c should read: "… Unit 1 and 2 Containment Purge Air Exhaust Filters, …". 2. Part II, Section 14.3.1.b.1 of the FPR should say "For either Reactor Building…". 3. Part III, section 4.7 is incorrect. The third paragraph should read: "The CCS system provides cooling for the following safe shutdown equipment per unit." The CCS system equipment is for both units. These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Item 10. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112249855	FSAR RAI ---------- NRR			Table 14.1 contains detectors that are for protection of components and areas required for fire safe shutdown. The detection zone 413 contains the detectors provided for the Motor Driven Main Feedwater Pump located in the Turbine Building. The Motor Driven Main Feedwater Pump is not required for fire safe shutdown; therefore, this line item for zone 413 is deleted from Table 14.1. These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Letter Item 6. [NRC Question RAI FPR II-16]) (Item 3. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112249904	FSAR RAI ---------- NRR			TVA's response to Letter Item 39 [NRC Question RAI FPR III-13] states: [1] Part III, Section 4.7 is incorrect and the third paragraph should read "The CCS system provides cooling for the following safe shutdown equipment per unit." The CCS system equipment is for both units. [2] A review of the FPR revealed three other places where the discussion concerns both units: 1. Table 14.3, item 14.3.c should read: "… Unit 1 and 2 Containment Purge Air Exhaust Filters, …". 2. Part IV, Section 3.3, second sentence should read: "The number in ( ) is the number available for shutdown." This deletes the reference to Unit 1 only. 3. Part II, Section 14.3.1.b.1 of the FPR should say "For either Reactor Building…". These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Item 9. of Enclosure 2. of letter T02 110506 001)

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Engineering - I and C		112249845	FSAR RAI ---------- NRR			For dual unit operation, CCS Pump 2B-B will be returned to its Unit 2 functional role and will be included in the Technical Specification Bases Section 3.7.7. (Letter Item 4. [NRC Question RAI FPR II-14]) (Item 2. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112249817	FSAR RAI ---------- NRR			TVA's response to Letter Item 3. [NRC Question RAI FPR II-13] states: [1] Part II, Section 14.3.1.b.1 of the FPR should say "For either Reactor Building…". [2] A review of the FPR revealed three other places where the discussion concerns both units: 1. Table 14.3, item 14.3.c should read "… Unit 1 and 2 Containment Purge Air Exhaust Filters, …". 2. Part III, Section 4.7, third paragraph should read "The CCS system provides cooling for the following safe shutdown equipment per unit." The CCS system equipment is for both units. 3. Part IV, Section 3.3, second sentence should read "The number in ( ) is the number available for shutdown." This deletes the reference to Unit 1 only. These changes will be incorporated into the next revision to the Unit 1/Unit 2 As-Designed FPR. (Item 1. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		111621250	RAI Response - I and C ---------- NRR			(Letter Item 8) - Attachment 4 contains excerpts of EDCR 55385 (i.e., draft Scope, Intent, and Unit Difference and Technical Evaluation). The final excerpts will be submitted within two weeks after issuance of the EDCR. (Item 4. of Enclosure 4 of letter T02 101029 002)
Engineering - I and C		111900989	RAI Response - I and C ---------- NRR	03/11/2011		The qualification information on the LPMS softline cable and charge converter/preamplifier will be submitted by March 11, 2011. (Item 1. of Enclosure 4 of T02 101222 006)
Engineering - I and C		111334387	RAI Response - FSAR ---------- NRR	12/17/2010		A non-proprietary version of and an affidavit for withholding for TR-1136 will be submitted to the NRC by December 17, 2010. [Item 5. of Enclosure 2 of letter T02 100731 001]
Engineering - I and C	166	NCO840165002	Control Room Design Review SP ---------- Generic Communications: NUREG-0737, I.D.1 ---------- Regulatory Framework ---------- NRR	/ AFTER LICENSED		Submit photographs of control panels 120 days after receipt of an operating license.

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Engineering - I and C		112043595	FSAR RAIs ---------- NRR			A FSAR change will be submitted in a future FSAR amendment to change the revision level for WCAP-13869 from 2 back to 1. [Item 11, (Matrix Item 323)] [Item 4. of Enclosure 4 of letter T02 110225 004]
Engineering - I and C		111621236	RAI Response - I and C ---------- NRR			(Letter Item 4) - Attachment 1 contains excerpts of EDCR 52321 (i.e., draft Scope, Intent, and Unit Difference and Technical Evaluation). The final excerpts will be submitted within two weeks after issuance of the EDCR. (Item 1. of Enclosure 4 of letter T02 101029 002)
Engineering - I and C		111334419	RAI Response - FSAR ---------- NRR	11/15/2010		A corrected proprietary version of, a non-proprietary version of, and an affidavit for withholding for Thermo Fisher Scientific Qualification Report No. 864, Rev. 0 will be submitted to the NRC by November 15, 2010. [Item 7. of Enclosure 2 of letter T02 100731 001]
Engineering - I and C		111360873	FSAR - A100 ---------- NRR			A revision to the WBN Unit 2 Technical Specifications will be provided via separate letter to provide consistency with the setpoint methodology changes provided in A100 and Technical Specification Tracking Form 493. [Item 1. of Enclosure 5 of letter T02 100901 002]
Engineering - I and C		111903557	RAI Response - I and C ---------- NRR			The nonproprietary versions of Westinghouse documents Post Accident Monitoring System (PAMS) Test Plan (Attachment 9), PAMS Channel Integration Test/Factory Acceptance Test (Attachment 12), IV&V Summary Reports for PAMS (Attachments 14 and 16), and PAMS Licensing Technical Report (Attachment 19) will be provided upon issuance of the final proprietary documents. (Enclosure 3 of letter T02 101203 001)
Engineering - I and C		112250468	RAI ----- NRR			The non-proprietary version of Westinghouse report DAR-ME-09-10, Revision 0, Qualification Summary Report for the WINCISE Cable and Connector Upgrade at Watts Bar Unit 2 and the affidavit for withholding will be submitted within two weeks of receipt from Westinghouse. (Letter Item #14/375 [Item 3]) [Item 6 of Enclosure 4 of letter T02 110506 002]
Engineering - I and C		112250459	RAI ----- NRR			Common Q PAMS is designed in accordance with RG 1.168, Revision 1, IEEE 1012-1998 and IEEE 1020-1997. These references will be added to FSAR Table 7.1-1. (Letter Item #11/370) [Item 5 of Enclosure 4 of letter T02 110506 002]
Engineering - I and C		111621243	RAI Response - I and C ---------- NRR			(Letter Item 5) - Attachment 2 contains excerpts of EDCR 52351 (i.e., draft Scope, Intent and Unit Difference and Technical Evaluation). The final excerpts will be submitted within two weeks after issuance of the EDCR. (Item 2. of Enclosure 4 of letter T02 101029 002)

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Engineering - I and C		111901163	RAI Response - I and C ---------- NRR			The discrepancies identified in the Contract Compliance Matrix of WNA-LI-00058-WBT-P, Revision 2, "Post-Accident Monitoring System (PAMS) Licensing Technical Report," will be corrected in Revision 3 of the document. (Item 2. of Enclosure 4 of T02 101222 006)
Engineering - I and C		112249939	FSAR RAI ---------- NRR			As described in Enclosure 2 to TVA letter to NRC dated March 31, 2011, most of WBN Unit 2 operator manual actions are preventative rather than reactive. That is, they are driven by procedure rather than reacting to changing plant conditions as indicated by instrumentation and alarms. While there are some actions that are taken in response to the fire itself (de-energize electrical board that is on fire), most WBN Unit 2 actions are in response to tripping the reactor. This clarification of T=0 is being included in the ongoing revision of Part V Section 2 which will be included in the next FPR revision. (Letter Item 43 [NRC Question RAI FPR V-11]) (Item 11. of Enclosure 2. of letter T02 110506 001)
Engineering - I and C		112250458	RAI ----- NRR			The Common Q PAMS will meet the cyber security requirements for the WBN Unit 2 Nuclear Security Program as mandated by 10 CFR 73.54 via WBN Unit 2 Procedure 25402-3DP-G04G-00508, "Cyber Security Program." (Letter Item #10/368) [Item 4 of Enclosure 4 of letter T02 110506 002]
Engineering - I and C		112250453	RAI ----- NRR			The Common Q PAMS and RM-1000 radiation monitors comply with IEEE 344-2004 and with RG 1.100 Revision 3 with the exception of testing above 30Hz. Table 7.1-1 will be updated to reflect conformance. (Letter Item #8/366) [Item 3 of Enclosure 4 of letter T02 110506 002]
Engineering - I and C		112250445	RAI ----- NRR			FSAR Table 7.1-1 will be updated to reference IEEE Std 603-1991 for the Common Q PAMS. (Letter Item #6/34 [Item 2]) [Item 2 of Enclosure 4 of letter T02 110506 002]
Engineering - I and C		112250439	RAI ----- NRR			The non-proprietary version of Westinghouse document "WBT DMIMS-DX™ Seismic Evaluation of the Digital Metal Impact Monitoring System (DMIMS-DX™) for Watts Bar Unit 2," EQ-QR-33-WBT, Revision 0 and affidavit for withholding will be submitted within two weeks of receipt from Westinghouse. (Letter Item #4/362 [Item 1]) [Item 1 of Enclosure 4 of letter T02 110506 002]
Engineering - Mechanical		112145180	RAI Response - SSER22 Open Items ---------- NRR			Amendment 104 to the Unit 2 FSAR will revise Table 3.2-2 to note that TVA Class G and H piping within the SGB System exists downstream of the safety-related containment isolation valves. (response to action item 36) [Item 3. of Enclosure 4 of letter T02 110406 004]
Engineering - Mechanical		112068570	FSAR RAI ---------- NRR	04/29/2011		Response to RAI FPR V-2 will be provided by April 29, 2011. [RAI FPR V-2] [Item 8. of Enclosure 2 of letter T02 110316 004]

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Engineering - Mechanical		111334428	RAI Response - FSAR ---------- NRR			Once the date for issuance of an operating license becomes more certain, TVA will update the sentence regarding the Code of Record in accordance with 10 CFR 50.55a(f)(4)(i). [Item 9. of Enclosure 2 of letter T02 100731 001]
Engineering - Mechanical		112068464	FSAR RAI ---------- NRR	04/29/2011		The "as-designed" Fire Protection Report (FPR) will be provided by March 16, 2011 except for Part V, which will be provided by April 29, 2011. [RAI FPR General - 2 Item A] [Item 1. of Enclosure 2 of letter T02 110316 004] ---------- This tracks the portion due 04/29/2011.
Engineering - Mechanical		112068520	FSAR RAI ---------- NRR	03/16/2011		Attachment 2 contains Figures II-1A thru II-26A, which are the as-designed installed fire detection and suppression system drawings. These drawings will be annotated to reflect changes made to the figures and provided to NRC by March 16, 2011. [RAI FPR General-4] [Item 5. of Enclosure 2 of letter T02 110316 004]
Engineering - Mechanical		112046729	FSAR RAI ---------- NRR			FSAR section 12.3.2.2 will be revised to list any applicable additional areas addressed by the mission dose calculations. (Question 30.1.b) [Item 8. of Enclosure 4 of letter T02 110225 002]
Engineering - Mechanical		112236712	FSAR RAI ---------- NRR			A future amendment to the Unit 2 FSAR will incorporate the Inadvertent ECCS Actuation analysis. [Item 1. of Enclosure 3 of letter T02 110429 003]
Engineering - Mechanical		111903011	Fire Protection Report ---------- NRR	10/01/2011		TVA will issue the as-constructed FPR for WBN Units 1 and 2 by October 1, 2011. (Item 1. of Enclosure 5 of letter T02 101218 001)
Engineering - Mechanical	200	NCO080008033	Generic Communications: GL 1989-04 ---------- Regulatory Framework ---------- NRR	/ six months before receiving an Operating License		GL 1989-04, "Guidelines on Developing Acceptable Inservice Testing Programs" – Submit an ASME Section XI Inservice Test Program for the first ten year interval six months before receiving an Operating License.
Engineering - Mechanical		112236713	FSAR RAI ---------- NRR			A future amendment to the Unit 2 FSAR will incorporate the CVCS Malfunction analysis. [Item 2. of Enclosure 3 of letter T02 110429 003]
Engineering - Mechanical		10175682	Regulatory Framework ---------- NRR	10/31/2009		Item 3 of Enclosure 1 of the Reference reads "Provide system description and information on QA provisions for the Unit 2 Solid Waste Management System and information on the Process Control Program on or before October 31, 2009."

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RESPONSIBLE	IPS #	MAXIMO #	SOURCE	DUE DATE / MILESTONE	PKG REC'D / CLOSED*	REQUIRED ACTION
Engineering - Mechanical	213	112054436	Generic Communications: GL 2008-01 ---------- Regulatory Framework ---------- NRR	/ within 6 months of NRC approval of the Traveler		TVA will evaluate adopting the revised ISTS SR 3.5.2.3 (NUREG 1431) at WBN within 6 months of NRC approval of the Traveler. (item 1. of Enclosure 3 of letter T02 110311 005)
Engineering - Mechanical		111895229	RAI - SAMA ---------- NRR			TVA is awaiting a response to its request of NRC to provide the basis for its assertion that a HCLPF of 0.7g corresponds to a seismic induced core damage frequency approximately equal to the internal events CDF. The basis for the seismic hazard curves and associated response spectra used in the development of this value are especially of interest. TVA will evaluate the requested information upon receipt and determine if a HCLPF of < 0.7 g is applicable to WBN Unit 2. A response will be provided following this evaluation. (RAI 4.c Response) [Item 8. of Enclosure 2 of T02 110131 001]
Engineering - Mechanical		112046718	FSAR RAI ---------- NRR			TVA has reviewed the FSEIS and found Table 3-20 to be in error. This was caused by the use of values contained in FSAR Table 11.3.7 instead of values contained in FSAR Table 11.3.7c. The correct source term used for calculating the site boundary doses is FSAR Table 11.3.7c. As a result, this accounts for the dose values being same between the FSEIS and the FSAR Table 11.3-10. (Question 15) [Item 3. of Enclosure 4 of letter T02 110225 002]
Engineering - Mechanical		112061258	Fire Protection Report ---------- NRR	04/29/2011		FPR Part V is undergoing revision in accordance with the commitment made in Reference 2 to incorporate criteria and assumptions used to ensure that Unit 2 manual actions (including manual actions for alternate or dedicated shutdown) are feasible and reliable. FPR Part V will be submitted to NRC by April 29, 2011. [from Enclosure 5 of letter T02 110316 005]
Engineering - Mechanical		PER 172598	Fire Protection CAP ---------- NRR			NCO840187004: Submit cable separation drawings to NRC in conjunction with the detailed Appendix R reanalysis report.
Engineering - Mechanical	209	111029357	Generic Communications: GL 2004-02 ---------- Regulatory Framework ---------- NRR	/ PRIOR to fuel load		TVA will provide a closure document similar to Reference 1 for WBN Unit 2 GL 2004-02 prior to fuel load.
Engineering - Mechanical		112068737	FSAR RAI ---------- NRR			The FPR will be revised to clarify that this reduction only applies to areas and/or equipment affecting the unit in Modes 5, 6, and core empty and does not apply to areas where the other unit is in Modes 1 to 4 inclusive. [RAI FPR II-8] [Item 11. of Enclosure 2 of letter T02 110316 004]

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Engineering - Mechanical		111091647	RAI Response - IPE ---------- NRR			TVA will provide information regarding how the model and the peer review process addressed the items in the Regulatory Guide 1.200 Revision 2 tables related to internal events including internal flooding for which the NRC position was stated as "Qualification." [Item . 1 of Enclosure 4 of T02 100608 001.]
Engineering - Mechanical	213	NCO081006001	Generic Communications: GL 2008-01 ---------- Regulatory Framework ---------- NRR	/ 90 days PRIOR to fuel load		Item 2 of Enclosure 2 stated "WBN Unit 2 will complete the required modifications and provide a submittal consistent with the information requested in the GL 90 days prior to fuel load. The submittal will provide: a statement regarding which actions were completed, the schedule for completing the remaining actions, and the basis for that schedule."
Engineering - Mechanical		112068578	FSAR RAI ---------- NRR			Upon performing the final plant walkdowns as prescribed in FPR Sections 2.1.1, 2.4.3, and 2.3, TVA will review the information and submit the results for NRC approval if they differ from the assumptions and details provided in Part V or the other parts of the FPR. Otherwise, TVA will inform the NRC when the walkdowns are complete and that no revisions to the FPR were required. [RAI FPR V-3] [Item 9. of Enclosure 2 of letter T02 110316 004]
Engineering - Mechanical		112068531	FSAR RAI ---------- NRR			Figures representing the as-constructed plant configuration will be provided after construction completion. [RAI FPR General - 4] [Item 6. of Enclosure 2 of letter T02 110316 004]
Insp. Services		NCO080008038	Regulatory Framework ---------- NRR	/ within 6 months after receiving an operating license		Submit Inservice inspection (ISI) program within 6 months after receiving an operating license.
Insp. Services		112047866	ASME - Section III to Section XI ---------- NRR	/ within 90 days following Unit 2 commercial operation		An Owners Summary Report shall be issued within 90 days following Unit 2 commercial operation for those repairs or replacements, if any, which were performed under Section XI on Unit 2 prior to commercial operation. [Enclosure 2 of T02 101012 001]
Licensing - Mechanical		112164522	FSAR RAI ---------- NRR			A future amendment to the Unit 2 FSAR will revise Section 9.2.1.3 as delineated in the response to Section 9.2.1 - Question (f). (Item 1. of Enclosure 2 of letter T02 110413 001)
Licensing - Mechanical		112164540	FSAR RAI ---------- NRR			A future amendment to the Unit 2 FSAR will revise Section 9.2.2.4 as delineated in the response to Section 9.2.2 - Question (d). (Item 2. of Enclosure 2 of letter T02 110413 001)

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NGD		112179288	FSAR RAI ---------- NRR			In Amendment 104 of the WBN Unit 2 FSAR, TVA will provide an update describing the increased height at Fort Loudoun, Cherokee, WBN and Tellico dams as the current licensing basis for WBN Unit 2. [Item 4. of Enclosure 2 of letter T02 110420 003]
NGD		112179285	FSAR RAI ---------- NRR	10/31/2011		TVA will report the results of the hydrology analysis without use of sand baskets or the seismic test of the sand baskets to the NRC by October 31, 2011. [Item 1. of Enclosure 2 of letter T02 110420 003]
NGD		112179286	FSAR RAI ---------- NRR	08/31/2011		TVA will provide an update of the WBN Unit 2 FSAR to describe the long-term stability analysis methodology following the completion of the finite element analyses by August 31, 2012. [Item 2. of Enclosure 2 of letter T02 110420 003]
NGDC Licensing		111906320	RAI ---------- NRR	/ PRIOR to receipt of source		The Cf-252 sources are to be used as start-up sources for the Unit 2 reactor and have not been fabricated to date. The source capsule will be labeled with a unique serial number when fabricated. The forecast delivery date of these sources from the vendor is August 15, 2011. TVA will submit an amendment to the license requesting to add the Cf-252 sources prior to receipt.
Operations		111880355	SAMA ---------- NRR	09/01/2011		TVA commits to submit the revision to procedure FR-H.1 to the Pressurized Water Reactor Owners Group prior to September 1, 2011 (SAMA 300). [Item 10. of Enclosure 2. of letter T02 101014 003]
Security		110850749	RAI Response - Physical Security Plan ---------- NRR			TVA will inform the NRC when the WBN Unit 2 Reactor Building is re-vitalized.
Unit 1 Radiation Protection		112046612	FSAR RAI ---------- NRR			TVA will provide an update in a future FSAR amendment. (Questions 22, 23, 28, and 29) [Item 7. of Enclosure 4 of letter T02 110225 002]
Unit 2 Licensing		111364245	RAI Response - FSAR ---------- NRR			Amendment 101 to the Unit 2 FSAR will implement changes as noted in the applicable responses. [Item 1. of Enclosure 3 of letter T02 100830 004]
Unit 2 Licensing		111517786	RAI Response - FSAR ---------- NRR			Amendment 101 to the Unit 2 FSAR will implement changes as noted in responses to the following RAIs: 2.3.2 - 9, 2.3.2 - 10, 2.3.2 - 11, 2.3.2 - 13 - 1, 2.3.2 - 13 - 2, 2.3.2 - 13 - 3, 2.3.2 - 13 - 4, 2.3.2 - 13 - 5, 2.3.2 - 13 - 6, 2.3.2 - 13 - 7, 2.3.2 - 13 - 8, 11 - 2.a, and 11 -2.c. [Item 1. of Enclosure 4 of letter # T02 101004 002]

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Unit 2 Licensing		112046368	FSAR RAI ---------- NRR			Table 11.3-10 of the FSAR will be corrected to reflect the 2007 feeding factors and the offsite radiation doses calculated without terrain adjustment factors. These changes to Table 11.3-10 will be reflected in Amendment 103. (Question 14) [Item 2. of Enclosure 4 of letter T02 110225 002]
Unit 2 Licensing		112046332	FSAR RAI ---------- NRR			In the footnote added to Table 11.2-5 by Amendment 102, the term “F/H1D” in the formulation of Column 5 and “Mobi”le” in the definition of “D” should be, “F/H/D” and “Mobile”, respectively. These items will be corrected in FSAR Amendment 103. (Question 9) [Item 1. of Enclosure 4 of letter T02 110225 002]
Unit 2 Licensing		111028208	Regulatory Framework ---------- NRR			TVA will provide periodic reports at approximately six month intervals on the status of the NUREG-0847 review topics as part of the construction completion and licensing of WBN Unit 2.
Unit 2 Licensing		111033038	RAI Response - Radiological Emergency Plan ---------- NRR	08/06/2010		TVA has revised the Security classification scheme to be consistent with changes being made to the WBN Security Plan in accordance with NEI 03-12. These changes completely eliminate the use of the phrase "Other security events as determined from (site-specific) Safeguards Contingency Plan," (HS1, HA4). TVA will provide the NRC staff an updated classification scheme that reflects these changes for WBN Unit 2. [RAI Response 3.r of Enclosure 2. of T02 100427 001]
Unit 2 Licensing		111948132	TS - TS Bases Supplemental Information ---------- NRR			A future Developmental Revision to the Unit 2 TS Bases will remove the "Prior to performance of this SR in Modes 1 or 2, actions are taken to establish that adequate conditions exist for performance of the SR. The required actions are defined in Bases Table 3.8.1-2." wording from the TS Bases for SR 3.8.1.14. (Item 2. Of Enclosure 5 of letter T02 110216 004)
Unit 2 Licensing		112046424	FSAR RAI ---------- NRR			TVA has reviewed the FSEIS and found the land use data presented in Table 3-19 to be in error. The land use survey used to develop Table 11.3-10 was from 2007. Table 11.3-10 of the FSAR will be revised to include 2007 feeding factors and the offsite radiation doses being calculated without terrain adjustment factors. These changes to Table 11.3-10 will be reflected in Amendment 103. (Question 21) [Item 6. of Enclosure 4 of letter T02 110225 002]
Unit 2 Licensing		112053537	FSAR ---------- NRR			If found acceptable by the staff, final Chapter 11 updates will be provided in A104. (last part of item 1. of Enclosure 5 of letter T02 110315 001)
Unit 2 Licensing		111948124	TS - TS Bases Supplemental Information ---------- NRR			A future Developmental Revision to the Unit 2 TS will correct the "58%" value in Unit 2 TS LCO 3.7.1, REQUIRED ACTION A.1 to "59%." (Item 1. Of Enclosure 5 of letter T02 110216 004)

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Unit 2 Licensing		NCO080008102	Regulatory Framework ---------- NRR	10/23/2009		TVA plans to submit a waiver request to allow operators to hold a combined operating license for WBN Unit 1 and Unit 2 on or before October 23, 2009.
Unit 2 Licensing		112046406	FSAR RAI ---------- NRR			Further, comparisons with other models determined that MESOPUFF II is not suitable for calculating χ/Q values at WBN receptors, and that GELC adequately estimates χ/Q for WBN receptors, without any need for adjustments. Therefore, WBN can eliminate the use adjustment factors and use GELC results directly. These changes will be reflected in Table 11.3-8 in FSAR, Amendment 103. (Question 20) [Item 5. of Enclosure 4 of letter T02 110225 002]
Unit 2 Licensing		112046388	FSAR RAI ---------- NRR			FSAR Section 11.3.10.1, "Assumptions and Calculation Methods" incorrectly states the dose to the critical organ from radioiodines, tritium, and particulates is calculated for real pathways existing at the site during a land use survey conducted in 1994. The feeding factor of 70% is the feeding factor associated with the 1994 land use survey. The feeding factor of 65% listed in Table 3-21 of the FSEIS is in error and should be 0.33%. These changes to FSAR Section 11.3.10.1 will be reflected in Amendment 103. (Question 18) [Item 4. of Enclosure 4 of letter T02 110225 002]
Unit 2 Licensing		112053527	FSAR ---------- NRR			TVA will provide an advance version of Chapter 11 along with answers to the remaining RAI questions in separate correspondence. (first part of item 1. of Enclosure 5 of letter T02 110315 001)
Unit 2 Licensing		111360889	FSAR - A100 ---------- NRR	/ AFTER LICENSED		TVA will submit a combined Unit 1 and Unit 2 FSAR with the first update of the Unit 1 UFSAR after Unit 2 is licensed. [Item 2 of Enclosure 5 of letter T02 100901 002]
Unit 2 Licensing		111877289	RAI ---------- NRR			If necessary, any revisions resulting from the above reviews will be provided in a later FSAR amendment. (Item 3. of Enclosure 3 of letter T02 110124 001)
Unit 2 Licensing		112145218	List of Design Differences ---------- NRR			Additional unit differences could emerge through field implementation. If significant unit differences emerge, then TVA will provide another updated list, if necessary, when field implementation is complete. [Item 1. of Enclosure 2 of letter T02 110406 005]
Unit 2 Licensing		111027916	Regulatory Framework ---------- NRR	07/30/2010		TVA will provide updates to the status of the Regulatory Framework and Generic Communications tables quarterly, within 30 days of the end of the quarter. [Revision 3 is due 07/30/2010]

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Unit 2 Licensing		111032952	RAI Response - Radiological Emergency Plan ---------- NRR	08/06/2010		TVA submits all changes to the TVA REP in accordance with 10 CFR 50.4, Appendix E. TVA will provide the NRC with the latest revised information in Appendix C (WBN 1/2) to the REP when we submit the updated plan as committed to in these RAI responses. If changes are made after NRC review of the plan, TVA will provide the NRC with updates of all changes made to the WBN Unit 1/2 REP to ensure that the NRC staff has accurate and complete information. [RAI Response 1. of Enclosure 2. of T02 100427 001]
Unit 2 Licensing		112046353	FSAR RAI ---------- NRR			The FSAR will be revised to eliminate the adjustment factors and use GELC results directly. Specifically, Table 11.3-10 (Unit 2 only) dose values for Noble Gases and Iodines/Particulates will be revised. In addition, due to elimination of the terrain adjustment factors, the highest dose pathway becomes vegetable ingestion instead of the cow milk with feeding factor. Doses reflected in this table will be of one unit (Unit 2) without a Tritium Producing Core. These changes will be submitted as part of Unit 2 FSAR, Amendment 103. (Enclosure 2 - Question 11.3.a) [Item 12. of Enclosure 4 of letter T02 110225 002]

TOTAL NUMBER OF OPEN ITEMS: 125

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SSER 22/23 Open Item Plan

Item	Question/Issue	Lead	Action Plan
(1) letter in folder	Review evaluations and corrective actions associated with a power assisted cable pull. (NRC safety evaluation dated August 31, 2009, ADAMS Accession No. ML092151155)	Const	Complete - Addressed by Maximo Commitment Closure package 10181059
(2) letter in folder	Conduct appropriate inspection activities to verify cable lengths used in calculations and analysis match as-installed configuration. (NRC safety evaluation dated August 31, 2009, ADAMS Accession No. ML092151155)	Elec	Provide NRC Residents access to as-constructed ICRDS database and associated calcs. Due date:02/29/2012 (Khan) Note: Pending completion of the cable pull effort and updating ICRDS for as-installed cable lengths by construction.
(4) letter in folder	Conduct appropriate inspection activities to verify that TVA's maximum SWBP criteria for signal level and coaxial cables do not exceed the cable manufacturers maximum SWBP criteria. (NRC safety evaluation dated August 31, 2009, ADAMS Accession No. ML092151155)	Elec/ Const	Complete - Close to Inspection Report 20100604
(7) letter in folder	Verify commitment completion and review electrical design calculations. (TVA letter dated October 9, 1990, ADAMS Accession No. ML073551056)	Elec	See commitments in TVA Letter. Provide NRC Residents a copy of related electrical calculation procedures and provide NRC access to calculations Due date: 8/1/11 (Khan)
(9) pg 13-2	Confirm that education and experience of management and principal supervisory positions down through the shift supervisory level conform to Regulatory Guide 1.8. (Section 13.1.3)	Lic	Obtain education and experience information from WBN Human Resources and provide info to NRC Residents. Due date: 7/15/11 (Elton)
(10) pg 13-2	Confirm that TVA has an adequate number of licensed and non-licensed operators in the training pipeline to support the preoperational test program, fuel loading, and dual unit operation. (Section 13.1.3)	Ops	Provide submittal that confirms we have adequate personnel in the pipeline. Due date: 7/15/11 (Wallace)
(11) pg 13-2	The plant administrative procedures should clearly state that, when the Assistant Shift Engineer assumes his duties as Fire Brigade Leader, his control room duties are temporarily assumed by	Ops	Provide NRC Residents copy of procedure that provides the controls of this function. Due date: 7/15/11 (Wallace)

	the Shift Supervisor (Shift Engineer), or by another SRO, if one is available. The plant administrative procedures should clearly describe this transfer of control room duties. (Section 13.1.3)		
(12) pg 25-3	TVA's implementation of NGDC PP-20 and EDCR Appendix J is subject to future NRC audit and inspection. (Section 25.9)	LIC	Provide self assessment related PER closure packages to Licensing for NRR review. Due date: 6/15/11 (Smith)
(13) pg 3-11	TVA is expected to submit an IST program and specific relief requests for WBN Unit 2 nine months before the projected date of OL issuance. (Section 3.9.6)	ISO	Provide submittal addressing IST program and relief requests. Due date: 7/15/11 (Tinley)
(16) pg 3-12 3-13	Based on the uniqueness of EQ, the NRC staff must perform a detailed inspection and evaluation prior to fuel load to determine how the WBN Unit 2 EQ program complies with the requirements of 10 CFR 50.49. (Section 3.11.2)	Elec	Provide NRC Residents copies of EQ documents as requested for the onsite inspections. Due date: Ongoing Inspection (Khan)
(17) pg 3-13	The NRC staff should verify the accuracy of the WBN Unit 2 EQ list prior to fuel load. (Section 3.11.2.1)	Elec	Provide NRC Residents copies of EQ documents as requested for the onsite inspections. Due date: Ongoing Inspection (Khan)
(19) pg 3-14	The NRC staff should complete its review of TVA's EQ Program procedures for WBN Unit 2 prior to fuel load. (Section 3.11.2.2.1)	Elec	Provide NRC Residents copies of EQ documents as requested for the onsite inspection Complete - Expect NRC to close in next inspection report
(21) pg 3-14	The NRC staff should confirm that the Electrical Penetration Assemblies (EPAs) are installed in the tested configuration, and that the feedthrough module is manufactured by the same company and is consistent with the EQ test report for the EPA. (Section 3.11.2.2.1)	Elec	Provide NRC Residents copies of EQ documents as requested for the onsite inspection Due date: 5/20/11 (Khan)
(25) pg 22-1	Prior to the issuance of an operating license, TVA is required to provide satisfactory documentation that it has obtained the maximum secondary liability insurance coverage pursuant to 10 CFR 140.11(a)(4), and not less than the amount required by 10 CFR 50.54(w) with respect to property insurance, and the NRC staff has reviewed and approved the documentation. (Section 22.3)	Lic	Provide Insurance coverage submittal. Due date: 10/1/11 (Smith)

(29) pg 8-8	Provide a detailed description of the transmission system grid conditions and the operating characteristics of the offsite power supply at the Watts Bar Hydro (for dual-unit operation), including the operating voltage range, post contingency voltage drops (including bounding values and post-unit trip values), and operating frequency range. Provide the design operating voltage range of the shutdown boards (minimum and maximum voltage) and information regarding how low the Watts Bar Hydro Station voltage could drop (assuming operation of the LTCs) while still supplying the worst-case shutdown board loads at the minimum design voltage of the shutdown boards. The summary of the grid studies should address dual-unit operation, the transmission network interface available fault current changes, and the impact on the switchyard and plant switchgear and cabling. (Section 8.2.2)	Elec	Provide response for submittal to NRR Due date: 7/15/11 (Hilmes)
(30) pg 8-10	TVA should confirm that all other safety-related equipment (in addition to the Class 1E motors) will have adequate starting and running voltage at the most limiting safety related components (such as motor operated valves, contactors, solenoid valves or relays) at the degraded voltage relay setpoint dropout setting. TVA should also confirm that the final Technical Specifications are properly derived from these analytical values for the degraded voltage settings. (Section 8.3.1.2)	Elec	Provide response for submittal to NRR. Due date: 8/1/11 (Hilmes) Note: This issue is with Corporate Licensing to resolve on Unit 1. Unit 2 resolution will be the same as it is for Unit 1.
(32) pg 8-14	TVA should provide to the NRC staff the details of the administrative limits of EDG voltage and speed range, and the basis for its conclusion that the impact is negligible, and describe how it accounts for the administrative limits in the Technical Specification surveillance requirements for EDG voltage and frequency. (Section 8.3.1.14)	Elec	Provide response for submittal to NRR. Due date: 8/1/11 (Hilmes)
(35) pg 10-9	TVA should provide information to the NRC staff that the CCS will produce feedwater purity in accordance with BTP MTEB 5-3 or, alternatively, provide justification for producing feedwater purity to another acceptable standard. (Section 10.4.6)	Mech/ Chem	Complete - A104 Update received

(37) pg 13-8	The NRC staff will review the combined WBN Unit 1 and 2 Appendix C prior to issuance of the Unit 2 OL to confirm (1) that the proposed Unit 2 changes were incorporated into Appendix C, and (2) that changes made to Appendix C for Unit 1 since Revision 92 and the changes made to the NP-REP since Revision 92 do not affect the bases of the staff's findings in this SER supplement. (Section 13.3.2)	REP	Submit final Unit 1/2 REP to NRC Due date: October 1, 2011
(38) pg 13-14	The NRC staff will confirm the availability and operability of the ERDS for Unit 2 prior to issuance of the Unit 2 OL. (Section 13.3.2.6)	REP	The Emergency Response Data System software has previously been modified and tested for the Watts Bar Unit 2 addition. This unit can be selected from the ERDS menu to send data to the NRC at this time. In addition, the software has been developed and tested to send data from the WBN PEDS to the CECC. However, the official list of points for Watts Bar Unit 2 has not been provided by Unit 2 Design Engineering and, until this has been completed and submitted to the Computer Engineering Group for addition to the ERDS software, official testing of the software for this unit cannot be completed with the NRC in order to declare the WBN ERDS Unit 2 operational. This list is derived from the official Data Point List. Once developed, Unit 2 Licensing submits the data to the NRC. Once this list has been received by the NRC, it would require one month to add the list to the NRC data systems, write the test, schedule the test with TVA/NRC, run the test, and TVA submit the results. Due date: 10/1/11
(39) pg 13-14	The NRC staff will confirm the adequacy of the communications capability to support dual unit operations prior to issuance of the Unit 2 OL. (Section 13.3.2.6)	REP	Provide NRC Residents copies of related documents as requested for the onsite inspection. This item is covered by the response to Item 38 Due date: See Item 38
(40) pg 13-15	The NRC staff will confirm the adequacy of the emergency facilities and equipment to support dual unit operations prior to issuance of the Unit 2 OL. (Section 13.3.2.8)	REP	Perform self assessment to verify processes and materials in main control room, TSC, OSC, EOF and local recivery facility. Provide NRC Residents copies of self assessment documents

			for the onsite inspection. Due date: 10/1/11
(41) pg 13-16	TVA committed to (1) update plant data displays as necessary to include Unit 2, and (2) to update dose assessment models to provide capabilities for assessing releases from both WBN units. The NRC staff will confirm the adequacy of these items prior to issuance of the Unit 2 OL. (Section 13.3.2.9)	Computer Eng REP	1) Provide demonstration of capability of SPDS, ICS and PEDS data system displays for Unit 2. Due date: 2) Submit EPIP-13. Describe RED, FRED and BRED data systems.. Due date: 10/1/11
(42) pg 13-16	The NRC staff will confirm the adequacy of the accident assessment capabilities to support dual unit operations prior to issuance of the Unit 2 OL. (Section 13.3.2.9)	Computer Eng	Covered by Item 41 (1) Due date: See Item 41(1)
(43) pg 13-23	Section V of Appendix E to 10 CFR Part 50 requires TVA to submit its detailed implementing procedures for its emergency plan no less than 180 days before the scheduled issuance of an operating license. Completion of this requirement will be confirmed by the NRC staff prior to the issuance of an operating license. (Section 13.3.2.18)	REP	Submit Unit 1/2 REP implementing procedures (EPIP-1 thru EPIP-17) to NRC Due date: October 1, 2011 (Detchemendy)
(47) pg 6-12	The NRC staff noted that TVA's changes to Section 6.2.6 in FSAR Amendment 97, regarding the implementation of Option B of Appendix J, were incomplete, because several statements remained regarding performing water-sealed valve leakage tests "as specified in 10 CFR [Part] 50, Appendix J." With the adoption of Option B, the specified testing requirements are no longer applicable; Option A to Appendix J retains these requirements. The NRC discussed this discrepancy with TVA in a telephone conference on September 28, 2010. TVA stated that it would remove the inaccurate reference to Appendix J for specific water testing requirements in a future FSAR amendment. (Section 6.2.6)	Lic	Complete - A104 Update received
(48) pg 6-15	The NRC staff should verify that its conclusions in the review of FSAR Section 15.4.1 do not affect the conclusions of the staff regarding the acceptability of Section 6.5.3. (Section	LIC	Complete - No TVA action Licensing to address in next SSER update letter

	6.5.3)		
(49) letter in folder	The NRC staff was unable to determine how TVA linked the training qualification requirements of ANSI N45.2-1971 to TVA Procedure TI-119. Therefore, the implementation of training and qualification for inspectors will be the subject of future NRC staff inspections. (NRC letter dated July 2, 2010, ADAMS Accession No. ML101720050)	Mech	Provide NRC Residents how the refurb training requirements are linked to the ANSI standard. Provide the training records for refurb inspectors. Due date: June 15, 2011 (Moll)
(50) letter in folder	TVA stated that about 5 percent of the anchor bolts for safety-related pipe supports do not have quality control documentation, because the pull tests have not yet been performed. Since the documentation is still under development, the NRC staff will conduct inspections to follow-up on the adequate implementation of this construction refurbishment program requirement. (NRC letter dated July 2, 2010, ADAMS Accession No. ML101720050)	Const	Notify NRC Residents of anchor bolt pull tests. Due date: July 1, 2011 (Adair)
(51) letter in folder	The implementation of TVA Procedure TI-119 will be the subject of NRC follow-up inspection to determine if the construction refurbishment program requirements are being adequately implemented. (NRC letter dated July 2, 2010, ADAMS Accession No. ML101720050)	Mech	Provide NRC Residents the results of the refurb program. Due date: Ongoing Inspection (Moll)
52 draft	TVA should provide an update to the FSAR replacing Table 12.2-3 with the expected source strength values of the freshly irradiated IITAs. (Section 12.3)	I&C	Complete - A104 Update received
53 draft	TVA should provide an update to the FSAR reflecting the information provided in its letter dated October 4, 2010, regarding the WBN radiation protection design features, including controlled access areas, decontamination areas, and onsite laboratories and counting rooms. (Section 12.4)	Rad Pro	Provide update to FSAR based on 10/4/10 letter to NRC. Due Date: June 15, 2011 (Grim)
54 draft	TVA should provide adequate technical justification to the staff to relax the frequency of the radiation monitor channel quarterly operability tests. TVA should provide sufficient information to the staff to determine that the protable airborne radiation monitors comply with the requirements of 10 CFR 20.1501. TVA should provide sufficient information for the	I&C	Provide requested info using correct methodology Due Date: June 30, 2011 (Hilmes)

	staff to determine that the licensing or TVA program requirements for the calibration and operability testing of area radiation monitors are sufficient to meet the regulatory requirements of 10 CFR 20.1501. (Section 12.4)		
55 draft	TVA should provide sufficient information to the staff to demonstrate that the two area radiation monitors for the Spent Fuel Pit comply with the requirements of 10 CFR 70.24 and 10 CFR 50.68 for radiation monitoring in areas where fuel is handled or stored. (Section 12.4)	Lic	Complete - Info provided by Question 27 of 2/25/11 letter
56 draft	TVA should update the FSAR to reflect the information regarding the dose assessment program provided in its letter the NRC dated June 3, 2010. (Section 12.5)	Lic	Complete - TVA does not believe an FSAR update is warranted. The info in the 6/3/10 letter is merely confirming that the WBN Unit 1/2 history meets the requirements of the FSAR.
57 draft	TVA should update the FSAR to reflect the qualification standards of the RPM as provided in its letter to the NRC dated October 4, 2010. (Section 12.6)	Lic	Develop FSAR change from 10/4/10 submittal - Question 12-13. Due Date: 5/27/11 (Stockton)
58 draft	The staff has insufficient information to conclude that TVA has taken appropriate actions to reduce radiation levels and increase the capability of operators to control and mitigate the consequences of an accident at WBN Unit 2, in accordance with the guidance of NUREG-0737, Item II.B.2, or can maintain occupational doses to plant operators within the requirements of GDC 19. Therefore, the staff cannot conclude that the plant shielding for WBN Unit 2 is acceptable. (Section 12.7.1)	Lic	Discussion in progress with NRC regarding this item versus Item 53 (apparent contradiction in the questions). Provide requested info Due Date:
59 draft	The staff's evaluation of the compatibility of the ESF system materials with containment sprays and core cooling water in the event of a LOCA is incomplete pending resolution of GSI-191 for WBN Unit 2. (Section 6.1.1.4)	Mech	Complete - Addressed by TVA letter dated 3/4/11, question 3.o.1
60 draft	TVA should amend the FSAR description of the design and operation of the spent fuel pool cooling and cleanup system in FSAR Section 9.1.3 as proposed in its December 21, 2010, letter to the NRC. (Section 9.1.3)	Lic	Complete - A103 provided update
61 draft	TVA should provide information to the NRC staff to demonstrate that PAD 4.0 can conservatively calculate the fuel temperature and other impacted variables, such as stored energy, given the lack of a fuel thermal conductivity degradation model.	Lic	Complete - This will be addressed by a License Condition

	(Section 4.2.2.1)		
62 draft	Confirm TVA's change to FSAR Section 10.4.9 to reflect its intention to operate with each CST isolated from the other. (Section 10.4.9)	Lic	Complete - A103 provided update
63 draft	TVA should confirm to the NRC staff that testing prior to Unit 2 fuel load has demonstrated that two-way communications is impossible with the Eagle 21 communications interface. (Section 7.2.1.1)	I&C	Provide requested info Due Date: 6/16/11 for plan
64 draft	TVA stated that, "Post modification testing will be performed to verify that the design change corrects the Eagle 21, Rack 2 RTD accuracy issue prior to WBN Unit 2 fuel load." The issue is open pending NRC staff review of the testing results. (Section 7.2.1.1)	I&C	Provide requested info Due Date: Need FDCN date from Westinghouse
65 draft	TVA should provide justification to the staff regarding why different revisions of WCAP-13869 are referenced in WBN Unit 1 and Unit 2. (Section 7.2.1.1)	I&C	Provide requested info Due Date: 6/15/11 (Hilmes)
66 draft	TVA should clarify FSAR Section 9.2.5 to add the capability of the UHS to bring the non accident unit to cold shutdown within 72 hours. (Section 9.2.5)	Lic	Complete - A102 provided update to FSAR Section 9.2.2.4 to cover this question for both ERCW and CCS.
67 draft	TVA should confirm, and the NRC staff should verify, that the component cooling booster pumps for Unit 2 are above PMF level. (Section 9.2.2)	Civil	Provide EDCR closure documentation for installation of CCS thermal barrier booster pump dike. Due Date:
68 draft	TVA should clarify to the NRC staff how the CSS complies with GDC 5. (Section 9.2.2)	Lic	Complete - A102 provided update
69 draft	The WBN Unit 2 RCS vent system is acceptable, pending verification that the RCS vent system is installed. (Section 5.4.5)	Mech	Provide EDCR closure documentation for installation of ECCS vents. EDCR numbers 52637 (RHR) [P3 Completion Date 6/7/11], 53311 (SI) [P3 Completion Date 8/25/11] Due Date: See above
70 draft	TVA should provide the revised WBN Unit 2 PSI program ASME Class 1, 2, and 3 Supports "Summary Tables," to include numbers of components so that the NRC staff can verify that the numbers meet the reference ASME Code. (Section 3.2.3 of Appendix Z of this SSER)	ISO	Provide requested info Due Date: 11/1/11 (Tinley)

71 draft	TVA should confirm to the staff the replacement of the current Unit 2 clevis insert bolts to the latest design, which uses an X-750 alloy with an HTH process, rolled threads, and a larger radius on the undercut of the cap screw head. (Section 3.9.5)	Lic	Complete - Letter issued 4/21/11
72 draft	Based on its review, the staff asked TVA several questions regarding the ICC instrumentation. TVA responded to the staff questions by letter dated October 26, 2010 (ADAMS Accession No. ML103020322). The NRC staff has not completed the review of the additional information provided by TVA. The staff will provide its evaluation after completion of that review. (Section 4.4.8)	Lic	Open pending NRC review
73 draft	The NRC staff will inspect to confirm that TVA has completed the WBN Unit 2 EOPs prior to fuel load. (Section 7.5.3)	Ops	Provide copies of EOPs for inspection. Due Date: (Wallace)
74 draft	The NRC staff will verify installation of the acoustic-monitoring system for the power-operated relief valve (PORV) position indication in WBN Unit 2 before fuel load. (Section 7.8.1)	I&C	Provide EDCR closure documentation for installation of acoustic monitors. Panels installed 5/18/11 Probes not installed Due Date:
75 draft	The NRC staff will verify that the test procedures and qualification testing for auxiliary feedwater initiation and control and flow indication are completed in WBN Unit 2 before fuel load. (Section 7.8.2)	PreOp	Provide copies of test procedures for inspection. Due Date: (Olson)
76 draft	The NRC staff will verify that the derivative time constant is set to zero in WBN Unit 2 before fuel load. (Section 7.8.3)	I&C	Provide EDCR closure documentation for setting of time constant. Due Date: