## WBN2Public Resource

**From:** Campbell, Stephen
**Sent:** Tuesday, August 17, 2010 11:28 AM
**To:** Milano, Patrick; Raghavan, Rags; Poole, Justin; Wiebe, Joel; Lamb, John; Bailey, Stewart
**Subject:** FW: LISTING OF 2010 I&C DOCS SENT TO NRC AND KNOWN FUTURE SUBMITTALS
**Attachments:** _LISTING OF IC DOCS SENT TO NRC 81710 MASTER R1.docx

For your reference. These are the I&C related documents sent from TVA.

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**From:** Knuettel, Edward Terry [mailto:etknuettel@tva.gov]
**Sent:** Tuesday, August 17, 2010 11:22 AM
**To:** Campbell, Stephen
**Cc:** Crouch, William D; Elton, Thomas L; Hilmes, Steven A; Stockton, Rickey A; Clark, Mark Steven
**Subject:** LISTING OF 2010 I&C DOCS SENT TO NRC AND KNOWN FUTURE SUBMITTALS

Stephen, attached is the requested list of 2010 I&C documents that TVA has sent NRC and known future submittal. Please contact me with any questions/comments on the attached.

Regards,

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*Terry Knuettel*
WBN Unit 2 Licensing
EQB 1B-WBN [Licensing Trailer]
423-365-7750, fax 423-365-3833
**********

**Hearing Identifier:** Watts_Bar_2_Operating_LA_Public
**Email Number:** 102

**Mail Envelope Properties** (AC20339767ABED49A6E58D6CDB4263C5014269185A)

**Subject:** FW: LISTING OF 2010 I&C DOCS SENT TO NRC AND KNOWN FUTURE SUBMITTALS
**Sent Date:** 8/17/2010 11:27:41 AM
**Received Date:** 8/17/2010 11:27:50 AM
**From:** Campbell, Stephen

**Created By:** Stephen.Campbell@nrc.gov

**Recipients:**
"Milano, Patrick" <Patrick.Milano@nrc.gov>
Tracking Status: None
"Raghavan, Rags" <Rags.Raghavan@nrc.gov>
Tracking Status: None
"Poole, Justin" <Justin.Poole@nrc.gov>
Tracking Status: None
"Wiebe, Joel" <Joel.Wiebe@nrc.gov>
Tracking Status: None
"Lamb, John" <John.Lamb@nrc.gov>
Tracking Status: None
"Bailey, Stewart" <Stewart.Bailey@nrc.gov>
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 840 | 8/17/2010 11:27:50 AM |
| _LISTING OF IC DOCS SENT TO NRC 81710 MASTER R1.docx | 28063 | |

**Options**
**Priority:** Standard
**Return Notification:** No
**Reply Requested:** No
**Sensitivity:** Normal
**Expiration Date:**
**Recipients Received:**

| ITEM NO. | DATE OF SUBMITTAL | SUBJECT OF SUBMITTAL LETTER | LISTING OF I&C SUBMITTED TO NRC |
|---|---|---|---|
| 1 | February 5, 2010 | WBN UNIT 2 – INFORMATION AVAILABLE FOR NRC REVIEW AND SETPOINT METHODOLOGY FOR PROTECTION SYSTEMS | 1 Westinghouse Letter dated February 3, 2010, titled: "NRC Access to Common Q Documents at the Westinghouse Rockville Office"<br>2 WCAP-17044-P, R0, titled: "Westinghouse Setpoint Methodology for Protection Systems, Watts Bar Unit 2, dated December 2009.[Westinghouse Proprietary Class 2]<br>3 WCAP-17044-NP, R0, titled: "Westinghouse Setpoint Methodology for Protection Systems, Watts Bar Unit 2, dated December 2009.[Westinghouse Proprietary Class 3]<br>4 Westinghouse letter titled: "Application for Withholding Proprietary Information from Public Disclosure," dated February 1, 2010 |
| 2 | March 12, 2010 | WBN UNIT 2 – ADDITIONAL INFORMATION REGARDING FSAR, CHAPTER 7, "INSTRUMENTATION AND CONTROLS" REVIEW | 1. WNA-DS-01667-WBT, Rev. 1, Common Q PAMS System Design Specification (Proprietary)<br>2. WNA-DS-01617-WBT, Rev. 1, Common Q PAMS System Requirements Specification (Proprietary)<br>3. Common Q PAMS ISG6 Compliance Matrix dated March 4, 2010 (Proprietary)<br>4. 04508006A, RM-1000 V&V Report (Proprietary)<br>5. 04508100-1TM, RM-1000 System Description (Proprietary)<br>6. 04508905-QR, RM-1000 Qualification Report (Proprietary)<br>7. 04508905-1SP, RM-1000 Qualification Report (Proprietary)<br>8. 04508905-2SP, RM-1000 Qualification Report (Proprietary)<br>9. 04508905-3SP, RM-1000 Qualification Report (Proprietary)<br>10. 04507007-1TR, RM-1000 Functional Testing Report (Proprietary)<br>11. CERPI WBN Unit1 50.59s<br>12. Westinghouse CERPI brochure NS-RRAS-0011 (84006) |

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| | | | 13. ICS EDCR 52322 excerpts<br>14. ICS HP RX2660 User Guide AB419-9002C-ed6<br>15. ICS Dell Poweredge R200 Server Sheet November, 2007<br>16. ICS RTP Corp 8707 I/O Brochure RTP 8707-02, 2004<br>17. ICS Integrated Computer system drawing 2-45W2697-1-1 Rev 0. (annotated with known system changes)<br>18. Annunciator EDCR 52315 excerpts<br>19. Annunciator Ronan X500F Sequence of Events Recorder Brochure X500F Rev. 0<br>20. Annunciator Ronan X110 Serial Control Brochure X110 Rev. 0<br>21. Loose Part Monitoring Westinghouse brochure NS-RRAS-0039 (72916)<br>22. Vibration Monitoring EDCR 52420 excerpts<br>23. Vibration Monitoring Bentley Nevada 3500 Brochure GEA-13965 Rev A (11/2006)<br>24. Vibration Monitoring Bentley Nevada 3500 System Overview 162096-01 Rev. F (03/07)<br>25. Turbine Servo Valve Control WBN Unit 1 50.59 and DCN excerpts<br>26. Rosemount digital transmitters model 3051, Product Data Sheet 00813-0100-4001, Rev HA<br>27. Rosemount digital transmitters model 3051, Rosemount 3051 Pressure Transmitter Reference Manual 00809-0100-4001, Rev HA November 2009<br>28. Containment Hydrogen Monitor, Preliminary vendor manual 107OM40. The system description is applicable to the system being installed in WBN2<br>29. Containment Sump Level Transmitter EDCR 52419 excerpts<br>30. Foxboro Spec 200 System Description<br>31. Source/Intermediate Range Monitor Upgrade, EDCR 52421 excerpts<br>32. Source/Intermediate Range Monitor Upgrade, Control and Schematic diagrams<br>33. Foxboro I/A System Description |

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| | | | 34. Foxboro I/A Control and Schematic Diagrams<br>35. Foxboro I/A System Overview Brochure<br>36. Pressurizer Heater Controller EDCR 52350 excerpts<br>37. Westinghouse schedule for completion of Setpoint and Scaling Documents (SSDs) |
| 3 | April 8, 2010 | WBN UNIT 2 – ADDITIONAL INFORMATION REGARDING FSAR, CHAPTER 7, "INSTRUMENTATION AND CONTROLS" REVIEW – REQUESTED COMMON Q PROPRIETARY DOCUMENTS | 1. Tennessee Valley Authority (TVA) Watts Bar Unit 2 (WBN2) – Post-Accident Monitoring System (PAMS) Licensing Technical Report (Document Number WNA-LI-00058-WBT, Revision 0, dated April 2010) (Proprietary)<br>2. Westinghouse letter dated April 6, 2010, "Application for Withholding Proprietary Information from Public Disclosure," for WNA-LI-00058-WBT, "Tennessee Valley Authority (TVA) Watts Bar Unit 2 (WBN2) Post-Accident Monitoring System (PAMS) Licensing Technical Report," (Proprietary)<br>3. Westinghouse document "RRAS Watts Bar 2 NSSS Completion Program I&C Projects, Software Requirements Specification for the Post Accident Monitoring System" (Document Number WNA-SD-00239-WBT, Revision 1), dated February 2010 (Proprietary)<br>4. Westinghouse letter dated April 5, 2010, "Application for Withholding Proprietary Information from Public Disclosure," for WNA-SD-00239-WBT, Revision 1, "RRAS Watts Bar 2 NSSS Completion Program I&C Projects Software Requirements Specification for the Post Accident Monitoring System," dated February 2010 (Proprietary)<br>5. Westinghouse letter dated March 2, 2010, "Application for Withholding Proprietary Information from Public Disclosure," for WNA-DS-01617-WBT, Rev. 1, "RRAS Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System – System Requirements Specification," dated December 2009 (Proprietary) and WNA-DS-01667-WBT, Rev. 1, |

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| | | | "RRAS Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System – System Design Specification," dated December 2009 (Proprietary) |
| 4 | April 27, 2010 | WBN UNIT 2 – STAFF INFORMATION REQUESTS RESULTING FROM NRC DECEMBER 15, 2009, MEETING WITH TVA REGARDING DIGITAL INSTRUMENTATION AND CONTROLS REVIEW AND NRC CLARIFICATIONS TO THE REQUESTS PROVIDED DURING FEBRUARY 18, 2010, TELEPHONE CONFERENCE CALL (TAC NO. ME0853) | 1. Summary of Changes for WBN Unit 2 Nuclear Instrumentation System<br>2. Thermo Fisher Scientific Letter, dated March 12, 2010<br>3. Power Point Presentation from January 13, 2010 Meeting with NRC on Solid State Protection System (SSPS)<br>4. Excerpts of Environmental Qualification (EQ) Documents for Safety-related Rosemount Transmitters<br>5. Summary of Changes for Rod Control System Presented in January 13, 2010 NRC meeting.<br>6. Revised markup of ICS Plan Drawing.<br>7. NEDP-8, "Technical Evaluation for Procurement of Materials and Services |
| 5 | June 18, 2010 | WBN UNIT 2 – INSTRUMENTATION AND CONTROLS STAFF INFORMATION REQUESTS | 1. Analog Loop Comparison<br>2. Analog Card Comparison<br>3. Analog System Description<br>4. Drawing Cross Reference List for FSAR Chapter 7<br>5. Electronic Copies of Legible Current Drawings<br>6. Revised Common Q PAMS ISG-6 Compliance Matrix<br>7. Proprietary Version 1.1 V&V Report<br>8. Design Criteria WB-DC-30-7 Revision 22, "Post Accident Monitoring Instrumentation"<br>9. EDCR 52421 Excerpt<br>10. EDCR 52987 Excerpt<br>11. EDCR 52601 (RVLIS) Excerpt<br>12. New Eagle 21 Power Supplies in WBN Unit 1<br>13. Work Order Excerpt and Unit Difference Form |

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| 6 | June 30, 2010 | WBN UNIT 2 – ADDITIONAL INFORMATION REGARDING FSAR, CHAPTER 7, "INSTRUMENTATION AND CONTROLS" REVIEW – REQUESTED COMMON Q PROPRIETARY DOCUMENTS | 1. Tennessee Valley Authority (TVA) Watts Bar Unit 2 (WBN2) – Post-Accident Monitoring System (PAMS) Licensing Technical Report (Document Number WNALI- 00058-WBT- P, Revision 0, June 2010) (Westinghouse Proprietary Class 2)<br>2. Tennessee Valley Authority (TVA) Watts Bar Unit 2 (WBN2) – Post-Accident Monitoring System (PAMS) Licensing Technical Report (Document Number WNALI- 00058-WBT- NP, Revision 0, June 2010) (Non Proprietary)<br>3. Application For Withholding Proprietary Information From Public Disclosure CAW-10-2866 |
| 7 | July 14, 2010 | WBN UNIT 2 – ADDITIONAL INFORMATION REGARDING FSAR, CHAPTER 7, "INSTRUMENTATION AND CONTROLS" REVIEW – REQUESTED COMMON Q PROPRIETARY DOCUMENTS | 1. Westinghouse – RRAS Watts Bar 2 NSSS Completion Program – I&C Projects – Post-Accident Monitoring System – System Design Specification (Document Number WNA-DS-01667-WBT- P, Revision 1, June 2010) (Westinghouse Proprietary Class 2)<br>2. Westinghouse - RRAS Watts Bar 2 NSSS Completion Program – I&C Projects – Post-Accident Monitoring System – System Design Specification (Document Number WNA-DS-01667-WBT- NP, Revision 1, June 2010) (Westinghouse Proprietary Class 3)<br>3. Application For Withholding Proprietary Information From Public Disclosure CAW-10-2877, Dated June 30, 2010, Subject: WNA-DS-01667-WBT-P, Revision 1, "RRAS Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System – System Design Specification" (Proprietary)<br>4. Westinghouse – RRAS Watts Bar 2 NSSS Completion Program – I&C Projects – Post-Accident Monitoring System – System Requirements Specification (Document Number WNA-DS-01617-WBT- P, Revision 1, June 2010) (Westinghouse Proprietary Class 2) |

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| | | | 5. Westinghouse – RRAS Watts Bar 2 NSSS Completion Program – I&C Projects – Post-Accident Monitoring System – System Requirements Specification (Document Number WNA-DS-01617-WBT- NP, Revision 1, June 2010) (Westinghouse Proprietary Class 3)<br>6. Application For Withholding Proprietary Information From Public Disclosure CAW-10-2876, Dated June 30, 2010, Subject: WNA-DS-01617-WBT-P, Revision 1, "RRAS Watts Bar 2 NSSS Completion Program I&C Projects Post Accident Monitoring System – System Requirements Specification" (Proprietary)<br>7. Westinghouse – RRAS Watts Bar 2 NSSS Completion Program – I&C Projects – Software Requirements Specification for the Post-Accident Monitoring System – (Document Number WNA-SD-00239-WBT-P, Revision 1, June 2010) (Westinghouse Proprietary Class 2)<br>8. Westinghouse – RRAS Watts Bar 2 NSSS Completion Program – I&C Projects – Software Requirements Specification for the Post-Accident Monitoring System – (Document Number WNA-SD-00239-WBT- NP, Revision 1, June 2010) (Westinghouse Proprietary Class 3)<br>9. Application For Withholding Proprietary Information From Public Disclosure CAW-10-2878, Dated June 30, 2010, Subject: WNA-SD-00239-WBT-P, Revision 1, "RRAS Watts Bar 2 NSSS Completion Program I&C Projects Software Requirements Specification for the Post-Accident Monitoring System" (Proprietary) |
| 8 | July 15, 2010 | WBN UNIT 2 – INSTRUMENTATION AND CONTROLS STAFF INFORMATION REQUESTS | 1. General Atomics – Proprietary Version of "RM-1000 Version 1.2 Software Verification & Validation Report" (Document Number 04508006, Revision A)<br>2. General Atomics – Nonproprietary Version of "RM-1000 Version 1.2 Software Verification & Validation Report" (Document Number 04508006, Revision A) |

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| | | | 3. General Atomics – Proprietary Version of “RM-1000 Digital Radiation Processor – Technical Manual” (Document Number 04508100-1TM, Revision C, October 2003)<br>4. General Atomics – Nonproprietary Version of “RM-1000 Digital Radiation Processor – Technical Manual” (Document Number 04508100-1TM, Revision C, October 2003)<br>5. General Atomics – Proprietary Version of “Qualification Test Report for RM-1000 Processor Module and Current-To-Frequency Converter” (Document Number 04508905-QR, January 2001)<br>6. General Atomics – Nonproprietary Version of “Qualification Test Report for RM- 1000 Processor Module and Current-To-Frequency Converter” (Document Number 04508905-QR, January 2001)<br>7. General Atomics – Proprietary Version of “Qualification Test Report Supplement, RM-1000 Upgrades” (Document Number 04508905-1SP, Revision A, June 2006)<br>8. General Atomics – Nonproprietary Version of “Qualification Test Report Supplement, RM-1000 Upgrades” (Document Number 04508905-1SP, Revision A, June 2006)<br>9. General Atomics – Proprietary Version of “Qualification Test Report Supplement, IF Converter Upgrades ” (Document Number 04508905-2SP, Revision A, June 2008)<br>10. General Atomics – Nonproprietary Version of “Qualification Test Report Supplement, I-F Converter Upgrades ” (Document Number 04508905-2SP, Revision A, June 2008)<br>11. General Atomics – Proprietary Version of “Qualification Test Report Supplement, RM-1000 Upgrades” (Document Number 04508905-3SP, Revision A, May 2008) |

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| | | | 12. General Atomics – Nonproprietary Version of "Qualification Test Report Supplement, RM-1000 Upgrades" (Document Number 04508905-3SP, Revision A, May 2008)<br>13. General Atomics – Proprietary Version of "RM-1000 System Verification Test Results – Engineering Report" (Document Number 04507007-1TR, July 1999)<br>14. General Atomics – Nonproprietary Version of "RM-1000 System Verification Test Results – Engineering Report" (Document Number 04507007-1TR, July 1999)<br>15. General Atomics – Proprietary Version of "RM-1000 Version 1.1 Software Verification Report" (Document Number 04508005, January 2002)<br>16. General Atomics – Nonproprietary Version of "RM-1000 Version 1.1 Software Verification Report" (Document Number 04508005, January 2002)<br>17. General Atomics – Request by General Atomics Electronic Systems, Inc. to Withhold Certain Information From Public Disclosure Under 10 CFR 2.390) |
| 9 | July 30, 2010 | WBN UNIT 2 – INSTRUMENTATION AND CONTROLS STAFF INFORMATION REQUESTS, AND NRC/TVA TELECOM ON JULY 6, 2010, INFORMATION REQUESTS | 1. Westinghouse letter WAT-D-10502, Tennessee Valley Authority Watts Bar Nuclear Plant Revised Containment Sump Level Transmitter Assessment and WCAP-12096 Revision 8<br>2. Common Q PAMS Design Engineering Evaluation Against the Requirements of Regulatory Guide 1.97 Revision 2.<br>3. EDCR 52408 Excerpts that Describe the Unit 2 AMSAC System and How It Differs from the Unit 1 System<br>4. Owl Computing Product Overview: Secure One-Way Data Transfer Systems, Owl Computing Technologies, Inc. 38A Grove Street, Suite 101, Ridgefield CT 06877 www.owlcti.com |

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| | | | 5. Westinghouse Letter, dated July 20, 2010, WBT-D-2166, Tennessee Valley Authority Watts Bar Nuclear Plant Unit 2, NRC RAI for Common Q PAMS<br>6. Application for Withholding Proprietary Information from Public Disclosure, CAW-10-2891, dated July 19, 2010, for Westinghouse Letter WBT-D-2166, Tennessee Valley Authority Watts Bar Nuclear Plant Unit 2, Common Q PAMS Field Programmable Gate Arrays (FPGAs)<br>7. Design Change Excerpts for Foxboro Specification 200 System<br>8. Work Order Number 08-813412-000 Excerpt<br>9. Exception EX-WB-DC-30-4-48 Revision 1, to Design Criteria WB-DC-30-4, Separation/Isolation |
| 10 | August 11, 2010 | WBN UNIT 2 – NRC AUGUST 3-4, 2010, INSTRUMENTATION AND CONTROLS MEETING – REQUEST FOR ADDITIONAL INFORMATION | 1. Watts Bar Nuclear Plant Unit 1/Unit 2, Design Criteria Document No. WB-DC-30-29, Revision 8, titled “Plant Integrated Computer System (ICS),” dated August 10, 2009<br>2. Nuclear Power Group Calculation titled “Segmentation Analysis for WBN Unit 2 DCS (Distributed Control System),” dated August 2, 2010, Revision 0 |
| 11 | Known Future Submittals | WBN UNIT 2 – INSTRUMENTATION AND CONTROLS STAFF INFORMATION REQUESTS | 1. Turbine Control Valve AEH Controller Upgrade 50.59<br>2. Loose Part Detection System Description<br>3. System description N3-99-4003, Reactor Protection System<br>4. EDCR 52378 excerpts<br>5. EDCR 52671 excerpts<br>6. Unit 1 UFSAR Amendment 3 Change Package 1676 S00<br>7. EDCR 52322, Design, Procure And Construct An Integrated Computer System (ICS) For Watts Bar Nuclear Plant Unit 2. Provide All Appropriate Documentation To Support Design Input. Generate Or Revise All Official Drawings To Represent Final |

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| | | | Construction Configuration<br>8. WBNOSG4047, PAM Type “A” Variables Determination, Rev. 4<br>9. Technical Requirements Manual 3.3.6 and Bases 3.3.6<br>10. WBPEVAR8807025 Rev. 7<br>11. Scope and Intent, Unit Difference and Technical Evaluation for EDCR 52420<br>12. Scope and Intent, Unit Difference and Technical Evaluation for EDCR 53559<br>13. CERPI, initial installation DCN 51072 and 2009 upgrade DCN 52957 50.59 evaluations<br>14. Upgrade of RCP, TG and FW pumps vibration monitoring to Bentley-Nevada 3300, DCN 39242, DCN 39506, DCN 39548, and DCN 50750 50.59 evaluations<br>15. Containment Sump Level Transmitter replacement, DCN 39608 50.59 evaluation<br>16. Pressurizer Heater deletion of Backup Heaters on for PZR High Level, DCN 51102 50.59 evaluation<br>17. AMSAC DCN 50475 50.59 evaluation<br>18. Relocate containment isolation valve functions on relays K002 and K626 to prevent plant shutdown during routine surveillance testing. DCN 38238 50.59 evaluation<br>19. Revise OT$\Delta$T and OP$\Delta$T turbine runback setpoints, DCN 38842 50.59 evaluation<br>20. Install Integrated Computer System (ICS), DCN 50301 50.59 evaluation<br>21. Rod Control System Description N3-85-4003<br>22. Annunciator system description/design criteria<br>23. Foxboro I/A Procurement Specification excerpts that provide system description information<br>24. Scope and Intent, Unit Difference and Technical Evaluation for Foxboro I/A EDCR<br>25. Scope and Intent, Unit Difference and Technical Evaluation for Foxboro Spec 200 EDCRs |

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| | | | 26. Scope and Intent, Unit Difference and Technical Evaluation for Annunciator EDCR<br>27. Scope and Intent, Unit Difference and Technical Evaluation for Vibration Monitoring EDCR(s)<br>28. CERPI System Requirements Specification WNS-DS-00001 (Proprietary)<br>29. WNA-VR-00279-WBT, Watts Bar 2 PAMS specific Requirements Traceability Matrix<br>30. WNA-VR-00283-WBT, Watts Bar 2 PAMS specific IV&V Phase Summary Reports<br>31. 00000-ICE-30156 TVA/NRC Open Items List 5-0-2010<br>32. WNA-SD-00248-WBT, Watts Bar 2 PAMS Software Design Description for Flat Panel Display<br>33. WNA-SD-00250-WBT, Watts Bar 2 PAMS Software Design Description for AC160<br>34. WNA-CD-00018-GEN Rev. 3, Commercial Dedication Report for QNX 4.25G For Common Q Applications<br>35. 00000-ICE-35444 Rev. 1<br>36. Commercial grade survey(s) applicable to each new (not previously approved) Common Q component. |