



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555 - 0001

December 15, 2011

Administrative Judge
Lawrence G. McDade, Chair
Atomic Safety and Licensing Board Panel
Mail Stop T-3 F23
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Administrative Judge
Paul B. Abramson
Atomic Safety and Licensing Board Panel
Mail Stop T-3 F23
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Administrative Judge
Gary S. Arnold
Atomic Safety and Licensing Board Panel
Mail Stop T-3 F23
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

In the Matter of
TENNESSEE VALLEY AUTHORITY
(Watts Bar Nuclear Plant Unit 2)
Docket No. 50-391-OL; ASLBP No. 09-893-01-OL-BD01

Dear Administrative Judges:

The NRC Staff hereby submits Supplement 23 to the hearing file for the Watts Bar Nuclear Plant (Unit 2) OL proceeding, Docket No. 50-391-OL.

Pursuant to the agreement of the parties, disclosures and the hearing file may be limited to final non-privileged documents relevant to the admitted contentions. Further, historical versions of the application need not be listed and privilege logs are waived.

This supplement to the hearing file includes materials required pursuant to 10 C.F.R. § 2.1203, as well as the Staff's mandatory disclosures produced pursuant to 10 C.F.R. § 2.336, as modified by the agreement. Materials in the hearing file may be accessed through the Agencywide Documents Access and Management System ("ADAMS"). An index containing the ADAMS accession number, date, and title or description of each item in the hearing file is appended hereto as Attachment 1. An index of documents protected due to proprietary or security concerns is appended as Attachment 2.

The Staff has taken a broad approach in identifying potentially-relevant documents for inclusion in the disclosures and hearing file. Additional public documents associated with the application, but not relevant to the admitted contention, are readily accessible in ADAMS. In addition,

L. McDade
P. Abramson
G. Arnold

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December 15, 2011

pursuant to the agreement of the parties, the Staff will continue to work with both parties to provide access to documents

On or around December 15, 2011, the supplement to the hearing file will be made available via the Electronic Hearing Docket ("EHD"), which may be accessed at the following URL: http://ehd.nrc.gov/EHD_Proceeding/home.asp. The hearing file will be contained in a sub-folder entitled, "Watts Bar Hearing File" of the "Watts_Bar_50-391-OL" folder of the EHD.

Further, attached is the affidavit of Justin C. Poole certifying that all relevant materials required under the agreement of the parties by this section have been disclosed, and that the disclosures are accurate and complete for documents identified as of December 15, 2011.

Sincerely,

/Signed (electronically) by/

David E. Roth
Counsel for NRC Staff

Enclosures: Attachment 1 – Hearing File Index
Attachment 2 - Protected Index

Affidavit of Justin C. Poole

cc: Service List

ATTACHMENT 1 WATTS BAR OPERATING LICENSE APPLICATION HEARING FILE AND MANDATORY DISCLOSURES

HEARING FILE INDEX

Supplemental Disclosures – December 15, 2011

ID#	Accession Number	Document Date	Title
23-001	ML113120438	11/18/2011	Watts Bar Nuclear Plant, Unit 2 - Request for Additional Information Regarding Supplemental Evaluation Report Open Item 26 (TAC NO. ME0853).
23-002	ML113130218	11/18/2011	Watts Bar Nuclear Plant, Unit 2 - Request for Additional Information Regarding Supplemental Safety Evaluation Report Open Items 80, 81, 105, and 108.
23-003	ML11319A138	11/18/2011	12/08/2011 Forthcoming Public Meeting to Discuss Draft Supplement to the Final Environmental Statement for Watts Bar Nuclear Plant, Unit 2.
23-004	ML11319A206	11/15/2011	Enclosure 1 Public Meeting Agenda with NRC & TVA 11/08/2011.
23-005	ML11319A210	11/15/2011	Enclosure 2 Attendee List 11/08/2011 (Enclosure 2).
23-006	ML11319A213	11/15/2011	Enclosure 3 Watt Bar Nuclear Unit 2 TVA-NRC Meeting Slides.
23-007	ML11319A219	11/15/2011	Enclosure 4 NRC Slides for 11/08/2011 Public Meeting Slides.
23-008	ML11319A231	11/15/2011	11/08/2011 Meeting Summary with Tennessee Valley Authority to Discuss Watts Bar Nuclear Plant Unit 2 Construction Project.
23-009	ML11322A014	10/31/2011	WNA-SD-00248-WBT-NP, Rev. 3, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Software Design Description for the Post Accident Monitoring System Flat Panel Display".
23-010	ML11322A015	10/31/2011	WNA-SD-00250-WBT-NP, Rev. 3, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Software Design Description for the Post Accident Monitoring System AC160 Software".
23-011	ML11322A018	10/31/2011	WNA-VR-00279-WBT-NP, Rev. 5, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Requirements Traceability Matrix for the Post- Accident Monitoring System".
23-012	ML11322A099	11/14/2011	Watts Bar Nuclear Plant, Unit 2 - Instrumentation and Controls Staff Information Requests.
23-013	ML11322A100	11/14/2011	Watts Bar Nuclear Plant, Unit 2 "Emergency Response Data System (ERDS) Data Point Library (DPL), Revision 0".
23-014	ML11322A101	10/31/2011	WBT-D-3548, "Closure of WNA-CN-00157-WBT Open Items, Watts Bar 2" dated October 2011.
23-015	ML11322A102	11/14/2011	EQ-QR-33-WBT-NP, Rev. 0, "WBT DMINS-DX Seismic Evaluation of the Digital Metal Impact Monitoring System (DMIMS-DXTM) for Watts Bar Unit 2".
23-016	ML11322A103	11/30/2011	WCAP-17529-NP, Rev. 0, "System Requirements Specification for the Common Q Post Accident Monitoring System".

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ID#	Accession Number	Document Date	Title
23-017	ML11322A104	10/31/2011	WNA-TP-02988-WBT-NP, Rev. 0, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Post Accident Monitoring System Channel Integration Test/Factory Acceptance Test".
23-018	ML11333A054	11/17/2011	Watts Bar, Unit 2, Final Safety Analysis Report, Amendment 107. (Transmittal letter, summary of changes, listing of redactions).
23-019	ML113410052	12/07/2011	Watts Bar Nuclear Plant, Units 1 and 2 Project Manager Reassignments.
23-020	ML11341A033	11/30/2011	Watts Bar, Unit 2, Attachment 31, General Atomics-Electronics Systems Inc. Redacted Non-proprietary Document 04509050, "RM-1000 EMC Test Report," dated April 22, 2003 (Letter Item 11).
23-021	ML11341A034	11/30/2011	Watts Bar, Unit 2, Attachment 32, General Atomics-Electronics Systems Inc. Letter GA-ESI 4493, Request by General Atomics Electronic Systems, Inc. to Withhold Certain Information from Public Disclosure under 10CFR2.390 dated October 14, 2011....
23-022	ML11341A035	11/30/2011	Watts Bar, Unit 2, Attachment 34, General Atomics-Electronics Systems Inc. Redacted Non-Proprietary Document OP-7.3-240, "Safety-Related Commercial Grade Item Parts Acceptance," Revision K (Letter Item 12).
23-023	ML11341A036	11/30/2011	Watts Bar, Unit 2, Attachments 38 Through 39, General Atomics-Electronics Systems Inc. Document 04038800, Attachment I "White Paper: Qualification of RM-1000 Processors Processors," Revision A (Letter Item 14).
23-024	ML11341A135	11/30/2011	Watts Bar, Unit 2, Attachments 17 through 18, EQLR-171-NP, Revision 1 and CAW-11-3299, Environmental and Seismic Test Report Analog Input AI687 and AI688 Modules and Supporting Components for Use in Common Qualified Post Accident Monitoring System.
23-025	ML11341A136	11/30/2011	Watts Bar, Unit 2, Attachments 20 through 21, EQ-QR-64-GEN-NP, Revision 0 and CAW-11-3303, AI687 and AI688 for use in Common Q PAMS EMC Test Report and Installation Limitations.
23-026	ML11341A137	11/30/2011	Watts Bar, Unit 2, Attachments 23 through 24, WNA-DS-01667-WBT-NP, Revision 5 and CAW-11-3301, Post Accident Monitoring System - System Design Specification.
23-027	ML11341A138	11/30/2011	Watts Bar, Unit 2, Attachments 26 and 27, General Atomics-Electronics Systems Inc., Document 04038800-1SP, "RM-1000 EMC Test Report Supplement 1," Rev. A (Letter Item 9) and Letter GA-ESI 4496.
23-028	ML11341A139	11/30/2011	Watts Bar, Unit 2, Attachment 29, General Atomics-Electronics Systems, Inc. Redacted Non-Proprietary Document 04038903-QSR, "Qualification Summary Report for Watts Bar Nuclear Plant Unit 2 Replacement Radiation Monitors," Revision D (Letter Item 10).
23-029	ML11341A156	11/30/2011	Watts Bar, Unit 2, Instrumentation and Controls Staff Information Requests.

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ID#	Accession Number	Document Date	Title
23-030	ML11341A157	11/30/2011	Watts Bar, Unit 2, Attachments 7 through 9, WNA-CN-00157-WBT-NP, Revision 1, CAW-11-3316, and WBT-D-3566 NP, Incore Instrument System Signal Processing System Isolation Requirement.
23-031	ML11341A158	11/30/2011	Watts Bar, Unit 2, Attachments 11 through 12, CN-EQT-10-44-NP, Revision 1 and CAW-11-3278, Dynamic Similarity Analysis for the Post Accident Monitoring System.
23-032	ML11341A159	11/30/2011	Watts Bar, Unit 2, Attachments 14 through 15, EQ-EV-62-WBT-NP, Revision 1 and CAW-11-3297, Comparison of Tested Conditions for the AI687 and AI688 Common Q Modules to the Requirements.
23-033	ML113430545	12/09/2011	12/21/2011 Notice of Meeting with Tennessee Valley Authority to Discuss Watts Bar Nuclear Plant Unit 2, Final Safety Analysis Report Related to Section 9.5.1 Fire Protection.
23-034	ML11347A434	12/09/2011	2011/12/09 Watts Bar 2 OL - NRC PM Open Items List 12-09-11.docx
23-035	ML11347A435	12/06/2011	2011/12/06 Watts Bar 2 OL - Request - Conference call with TVA to discuss TVA letter to NRC_11-30-11_I&C RAI Response
23-036	ML11347A436	12/06/2011	2011/12/06 Watts Bar 2 OL - NRC PM Open Items List 12-07-11
23-037	ML11347A437	12/06/2011	2011/12/06 Watts Bar 2 OL - NRC PM Open Items List 12-06-11 (4).docx
23-038	ML11347A438	12/02/2011	2011/12/02 Watts Bar 2 OL - FW: For Your Review - Potential Issue - TS SFP Storage
23-039	ML11347A439	12/01/2011	2011/12/01 Watts Bar 2 OL - FW: TVA letter to NRC_11-21-11_NRC Environmental Review
23-040	ML11347A440	12/01/2011	2011/12/01 Watts Bar 2 OL - TVA letter to NRC_11-30-11_I&C RAI Response
23-041	ML11347A441	12/01/2011	2011/12/01 Watts Bar 2 OL - NRC PM Open Items List 12-02-11.docx
23-042	ML11347A442	11/30/2011	2011/11/30 Watts Bar 2 OL - NRC PM Open Items List 11-30-11 (3).docx
23-043	ML11347A443	11/18/2011	2011/11/18 Watts Bar 2 OL - TVA letter to NRC_11-17-2011_WBN U2 FSAR A107
23-044	ML11347A444	11/15/2011	2011/11/15 Watts Bar 2 OL - NRC PM Open Items List 11-18-11.docx
23-045	ML11347A448	11/14/2011	2011/11/14 Watts Bar 2 OL - 11-14-11_I&C RAI Response--Vendor Doc Transmittal Ltr
23-046	ML11347A449	11/14/2011	2011/11/14 Watts Bar 2 OL - RE: Discussion with the NRC on I& C issues
23-047	ML11347A450	11/14/2011	2011/11/14 Watts Bar 2 OL - Draft Request for Additional Information Regarding Open Items 80, 81, 94, 105, and 108
23-048	ML11347A451	11/14/2011	2011/11/14 Watts Bar 2 OL - NRC PM Open Items List 11-15-11 R1.docx
23-049	ML11347A452	11/14/2011	2011/11/14 Watts Bar 2 OL - NRC PM Open Items List 11-15-11.docx

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ID #	Accession Number	Document Date	Protected Reason	Title
23-P001	ML112930451	10/20/2011	Security	11/07/2011-Notice of Closed Meeting - Regulatory Conference - Tennessee Valley Authority Watts Bar Nuclear Plant Units 1 & 2, to Discuss Inspection Finding Documented in Letter and Inspection Report dated September 20, 2011.
23-P002	ML113191186	11/14/2011	Security	11/7/2011 Summary of Closed Meeting - Regulatory Conference - Tennessee Valley Authority Watts Bar Nuclear Plant Units 1 and 2 - Docket Nos. 50-390 and 50-391.
23-P003	ML11322A019	10/31/2011	Proprietary	WBT-D-3548, "Closure of WNA-CN-00157-WBT Open Items Watts Bar 2," dated October 2011.
23-P004	ML11322A020	10/31/2011	Proprietary	EQ-QR-33-WBT-P, Rev. 0, "WBT DMIMS-DXTM Seismic Evaluation of the Digital Metal Impact Monitoring System (DMIMS-DXTm) for Watts Bar Unit 2".
23-P005	ML11322A024	11/14/2011	Proprietary	WCAP-17529-P, Rev. 0, "System Requirements Specification for the Common Q Post Accident Monitoring System".
23-P006	ML11322A025	10/31/2011	Proprietary	WNA-SD-00248-WBT-P, Rev. 3, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Software Design Description for the Post Accident Monitoring System Flat Panel Display".
23-P007	ML11322A028	10/31/2011	Proprietary	WNA-SD-00250-WBT-P, Rev. 3, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Software Design Description for the Post Accident Monitoring System AC160 Software".
23-P008	ML11322A029	10/31/2011	Proprietary	WNA-TP-02988-WBT-P, Rev. 0, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Post Accident Monitoring System Channel Integration Test/Factory Acceptance Test".
23-P009	ML11322A043	10/31/2011	Proprietary	WNA-VR-00279-WBT-P, Rev. 5, "Nuclear Automation Watts Bar Unit 2 NSSS Completion Program I & C Projects Requirements Traceability Matrix for the Post- Accident Monitoring System".
23-P010	ML11339A133	11/30/2011	Fire Protection	Watts Bar, Unit 2 - Transmittal of Revised Unit 1/ Unit 2 As-Designed Fire Protection Report.

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ID #	Accession Number	Document Date	Protected Reason	Title
23-P011	ML11339A144	11/30/2011	Fire Protection	Transmittal of Revised Unit 1/ Unit 2 As-Designed Fire Protection Report, Part VI - Fire Hazards Analysis, VI-429 Through Part X - NFPA Code Evaluation.
23-P012	ML11339A145	11/30/2011	Fire Protection	Transmittal of Revised Unit 1/ Unit 2 As-Designed Fire Protection Report, Part I - Introduction Through Part VI - Fire Hazards Analysis VI-428.
23-P013	ML11341A044	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 6, Westinghouse Electric Company, WNA-CN-00157-WBT-P, "Watts Bar 2 Incore Instrument System (IIS) Signal Processing System (SPS) Isolation Requirements," Revision 1 (Letter Item 2, SSER 24 Appendix HH Item Number 121).
23-P014	ML11341A045	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 10, CN-EQT-10-44-P, Revision 1, "Dynamic Similarity Analysis for the Watts Bar Unit 2 Post Accident Monitoring System (PAMS)," Revision I (Proprietary) (Letter Item 4).
23-P015	ML11341A046	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 13, EQ-EV-62-WBT-P, "Comparison of Tested Conditions for the A1687 and A1688 Common Q Modules to the Watts Bar Unit 2 (WBT) Requirements," Revision 1 (Proprietary) (Letter Item 5).
23-P016	ML11341A072	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 16, EQLR-171-P, "Environmental and Seismic Test Report Analog Input (AI)687 and A1688 Modules and Supporting Components for Use in Common Qualified (Common Q) Post Accident Monitoring System (PAMS)," Revision 1 (proprietary)
23-P017	ML11341A073	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 16, EQLR-171-P, "Environmental and Seismic Test Report Analog Input (AI)687 and A1688 Modules and Supporting Components for Use in Common Qualified (Common Q) Post Accident Monitoring System (PAMS)," Revision 1, Part 2 of 3.

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ID #	Accession Number	Document Date	Protected Reason	Title
23-P018	ML11341A076	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 16, EQLR-171-P, "Environmental and Seismic Test Report Analog Input (AI)687 and A1688 Modules and Supporting Components for Use in Common Qualified (Common Q) Post Accident Monitoring System (PAMS)," Revision 1, Part 3 of 3.
23-P019	ML11341A163	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 19 - Westinghouse Electric Co. Proprietary Document EQ-QR-64-GEN-P, "AI687 and AI688 for Use in Common Q PAMS EMC Test Report and Installation Limitations," Rev. 0.
23-P020	ML11341A166	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 22, Westinghouse Electric Company Proprietary Document WNA-DS-01667-WBT-P, "Post Accident Monitoring System -"System Design Specification," Revision 5.
23-P021	ML11341A167	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 25, General Atomics-Electronics Systems Inc. Demarcated Proprietary Document 04038800-ISP, "RM-1000 EMC Test Report Supplement 1," Revision A.
23-P022	ML11341A168	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 28, General Atomics-Electronics Systems Inc. Demarcated Proprietary Document 04038903-QSR, "Qualification Summary Report for Watts Bar Nuclear Plant Unit 2 Replacement Radiation Monitors," Revision D.
23-P023	ML11341A169	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 30, General Atomics-Electronics Systems Inc. Demarcated Proprietary Document 04509050, "RM-1000 EMC Test Report," dated April 22, 2003.
23-P024	ML11341A170	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 37, Demarcated Proprietary General Atomics-Electronics Systems Inc. Document 04038800, Attachment 1 "White Paper: Qualification of RM-1000 Processors," Revision A.
23-P025	ML11341A171	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 33, General Atomics-Electronics Systems Inc. Demarcated Proprietary Document OP-7.3-240, "Safety-Related Commercial Grade Item Parts Acceptance," Revision K.

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ID #	Accession Number	Document Date	Protected Reason	Title
23-P026	ML11341A172	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 35, General Atomics-Electronics Systems Inc. Proprietary Document 04508100-1TM, "RM-1000 Digital Radiation Processor Technical Manual," Revision C.
23-P027	ML11341A173	11/30/2011	Proprietary	Watts Bar, Unit 2, Attachment 36, General Atomics-Electronics Systems Inc. Proprietary Document 04038800, "White Paper: Qualification of RM-1000 Processors," Revision A.
23-P028	ML11347A433	11/30/2011	Fire Protection	2011/11/30 Watts Bar 2 OL - TVA letter to NRC_11-30-11_Transmittal of U1 - U2 Fire Protection Report

3. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information and belief.



Justin C. Poole

Executed in Rockville, Maryland
this 15th day of December, 2011

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)
)
TENNESSEE VALLEY AUTHORITY) Docket No. 50-391-OL
)
(Watts Bar Nuclear Plant, Unit 2))

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing "NRC STAFF'S SUPPLEMENTAL DISCLOSURE, INCLUDING HEARING FILE INDEX, PROTECTED INDEX, AND AFFIDAVIT OF JUSTIN C. POOLE," dated December 15, 2011, have been served upon the following by the Electronic Information Exchange, this 15th day of December, 2011:

Administrative Judge
Lawrence G. McDade, Chair
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Signed: December 15, 2011