

UNITED STATES NUCLEAR REGULATORY COMMISSION

ATLANTA, GEORGIA 30303-8931

REGION II SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW, SUITE 23T85

March 4, 2009

Mr. Preston D. Swafford Chief Nuclear Officer and Executive Vice President Tennessee Valley Authority 3R Lookout Place 1101 Market Street Chattanooga, TN 37402-2801

SUBJECT: ANNUAL ASSESSMENT LETTER – WATTS BAR NUCLEAR PLANT

(NRC INSPECTION REPORT 05000390/2009001 AND 05000391/2009001)

Dear Mr. Swafford:

On February 12, 2009, the NRC staff completed its performance review of the Watts Bar Nuclear Plant. Our technical staff reviewed performance indicators (Pls) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Related Information" will include the Security cornerstone review and resultant inspection plan.

Overall, Watts Bar Unit 1 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as the previous three quarters of the assessment cycle, was in the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all Pls indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting non-ROP inspections which include Operator Licensing Examinations, Temporary Instruction (TI) # 2515/173, Ground Water Protection Voluntary Initiative; and TI # 2515/172, Reactor Coolant System Dissimilar Metal Butt Welds.

The inspection and assessment of Watts Bar Unit 2 is performed pursuant to NRC inspection Manual Chapter (IMC) 2512, Light Water Reactor Inspection Program - Construction Phase, and IMC 2517, Watts Bar Unit 2 Construction Inspection Program. The assessment results and inspection plans for Unit 2 will be addressed in a separate letter.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2010. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

TVA 2

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4659 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Heather J. Gepford, Acting Chief Reactor Projects Branch 6 Division of Reactor Projects

Docket Nos.: 50-390, 50-391 License Nos.: NPF-90, CPPR-92

Enclosure: Watts Bar Inspection/Activity Plan (03/01/09 - 06/30/10)

cc w/encl.: (See page 3)

TVA 3

cc w/encl:
Gordon P. Arent
New Generation Licensing Manager
Tennessee Valley Authority
Electronic Mail Distribution

Masoud Bajestani Vice President Watts Bar Unit 2 Watts Bar Nuclear Plant Tennessee Valley Authority Electronic Mail Distribution

Ashok S. Bhatnagar Senior Vice President Nuclear Generation Development and Construction Tennessee Valley Authority Electronic Mail Distribution

Michael K. Brandon Manager Licensing and Industry Affairs Tennessee Valley Authority Electronic Mail Distribution

Preston D. Swafford Chief Nuclear Officer and Executive Vice President Tennessee Valley Authority Electronic Mail Distribution

Thomas Coutu
Vice President
Nuclear Support
Tennessee Valley Authority
Electronic Mail Distribution

General Counsel Tennessee Valley Authority Electronic Mail Distribution

John C. Fornicola General Manager Nuclear Assurance Tennessee Valley Authority Electronic Mail Distribution Gregory A. Boerschig Plant Manager Watts Bar Nuclear Plant Tennessee Valley Authority Electronic Mail Distribution

Larry E. Nicholson
General Manager
Performance Improvement
Tennessee Valley Authority
Electronic Mail Distribution

Michael A. Purcell Senior Licensing Manager Nuclear Power Group Tennessee Valley Authority Electronic Mail Distribution

Michael J. Lorek
Vice President
Nuclear Engineering & Projects
Tennessee Valley Authority
Electronic Mail Distribution

Michael D. Skaggs Site Vice President Watts Bar Nuclear Plant Tennessee Valley Authority Electronic Mail Distribution

Fredrick C. Mashburn
Acting Manager
Corporate Nuclear Licensing and Industry
Affairs
Tennessee Valley Authority
Electronic Mail Distribution

Senior Resident Inspector Watts Bar Nuclear Plant U.S. Nuclear Regulatory Commission 1260 Nuclear Plant Road Spring City, TN 37381-2000

County Executive 375 Church Street Suite 215 Dayton, TN 37321

(cc w/encl cont'd - See pae 4)

TVA 4

cc w/encl cont'd: County Mayor P.O. Box 156 Decatur, TN 37322

Lawrence Edward Nanney
Director
Division of Radiological Health
TN Dept. of Environment & Conservation
Electronic Mail Distribution

James H. Bassham Director Tennessee Emergency Management Agency Electronic Mail Distribution

Ann Harris 341 Swing Loop Rockwood, TN 37854 Page 1 of 2

03/04/2009 09:25:58

Report 22

Watts Bar

Inspection / Activity Plan 03/01/2009 - 06/30/2010

Unit	Planned Dates				
Number	Start	End	Inspection A	Title	on Site
			PI&R	- PRE INSPECTION	1
1	04/06/2009	04/10/2009	IP 71152	Identification and Resolution of Problems	
			OL EXAM	- INITIAL EXAM PREP	7
1	04/27/2009	05/01/2009	V23316	WATTS BAR/MAY 2009 EXAM AT POWER FACILITIES	
			OL EXAM	- INITIAL EXAM	7
1	05/18/2009	05/22/2009	V23316	WATTS BAR/MAY 2009 EXAM AT POWER FACILITIES	
			PI&R	- PROBLEM IDENTIFICATION AND RESOLUTION	8
1	06/08/2009	06/12/2009	IP 71152B	Identification and Resolution of Problems	
1	06/22/2009	06/26/2009	IP 71152B	Identification and Resolution of Problems	
			PSB1EP	- EMERGENCY PREPAREDNESS EXERCISE	3
1	06/08/2009	06/12/2009	IP 7111401	Exercise Evaluation	
1	06/08/2009	06/12/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	06/08/2009	06/12/2009	IP 71151	Performance Indicator Verification	
			EB3-HS	- HEAT SINK	1
1	08/03/2009	08/07/2009	IP 7111107T	Heat Sink Performance	
			PSB1-RP	- RADIATION PROTECTION PUBLIC INSPECTION	3
1	08/31/2009	09/04/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	08/31/2009	09/04/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
1	08/31/2009	09/04/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
1	08/31/2009	09/04/2009	IP 71151	Performance Indicator Verification	
			EB3ISI	- INSERVICE INSPECTION	2
1	09/28/2009	10/02/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3TI172	- TI-172 RCS DM BUTT WELDS	1
1	09/28/2009	10/02/2009	IP 2515/172	Reactor Coolant System Dissimiliar Metal Butt Welds	
			PSB1-RP	- RP ACCESS CONTROLS INSPECTION (OUTAGE)	1
1	09/28/2009	10/02/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1	09/28/2009	10/02/2009	IP 71151	Performance Indicator Verification	
			OL EXAM	- INITIAL EXAM PREP	6
1	11/09/2009	11/13/2009	V23317	WATTS BAR/NOVEMBER 2009 EXAM AT POWER FACILITIES	
			OL EXAM	- INITIAL EXAM	6
1	11/30/2009	12/04/2009	V23317	WATTS BAR/NOVEMBER 2009 EXAM AT POWER FACILITIES	
			CDBI	- COMPONENT DESIGN BASES INSPECTION	6
1	02/15/2010	02/19/2010	IP 7111121	Component Design Bases Inspection	
1	03/01/2010	03/05/2010	IP 7111121	Component Design Bases Inspection	
1	03/15/2010	03/19/2010	IP 7111121	Component Design Bases Inspection	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Page 2 of 2

03/04/2009 09:25:58

Report 22

Wette Der

watts bar							
Inspection / Activity Plan							
03/01/2009 - 06/30/2010							

Unit	Planne	Planned Dates					
Number	Start	End	Inspection A	ctivity	on Site		
			CDBI	- COMPONENT DESIGN BASES INSPECTION	6		
1	03/29/2010	04/02/2010	IP 7111121	Component Design Bases Inspection			
			PSB1-RP	- RP GROUNDWATER PROTECTION	2		
1	06/07/2010	06/11/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative			
			PSB1EP	- EMERGENCY PREPAREDNESS INSPECTION	1		
1	06/07/2010	06/11/2010	IP 7111402	Alert and Notification System Testing			
1	06/07/2010	06/11/2010	IP 7111403	Emergency Response Organization Augmentation Testing			
1	06/07/2010	06/11/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes			
1	06/07/2010	06/11/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies			
1	06/07/2010	06/11/2010	IP 71151	Performance Indicator Verification			