



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

March 5, 2012

Mr. Joseph Shea  
Manager, Corporate Nuclear Licensing  
Tennessee Valley Authority  
3R Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR WATTS BAR NUCLEAR PLANT  
UNIT 1, REPORT 05000390/2011007**

Dear Mr. Shea:

On February 16, 2012, the NRC completed its end-of-cycle performance review of the Watts Bar Nuclear Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2011 through December 31, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related 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 for the first three quarters of the assessment cycle, was within 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 PIs 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. There is a White finding in the area of Security which will be addressed under a separate Security Assessment.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In addition to the baseline inspection we plan on conducting Inspection Procedure (IP) 71111.17T "Modifications Inspection"; IP 71111.08P "Unit 1 In Service Inspection"; IP 71152B "Problem Identification and Resolution"; initial reactor operator licensing examinations; and Temporary Instruction (TI) 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks".

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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).

Please contact me at 404-997-4521 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Scott M. Shaeffer, Chief  
Reactor Projects Branch 6  
Division of Reactor Projects

Docket No. 50-390  
License No. NPF-90

Enclosure: Watts Bar Inspection/Activity Plan

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**Watts Bar**  
**Inspection / Activity Plan**  
**03/01/2012 - 06/30/2013**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>
1	11/21/2011	11/23/2013	V23362	WATTS BAR / OCTOBER 2011 EXAM AT POWER FACILITIES	
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>
1	02/27/2012	03/02/2012	IP 7111121	Component Design Bases Inspection	
			<b>MODS - MODIFICATIONS INSPECTION</b>		<b>5</b>
1	05/21/2012	05/25/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	06/04/2012	06/08/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>EB3 HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>
1	06/04/2012	06/08/2012	IP 7111107T	Heat Sink Performance	
			<b>PSB1-RP - PUBLIC RADIATION SAFETY BASELINE</b>		<b>3</b>
1	08/13/2012	08/17/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	08/13/2012	08/17/2012	IP 71124.07	Radiological Environmental Monitoring Program	
1	08/13/2012	08/17/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	08/13/2012	08/17/2012	IP 71151	Performance Indicator Verification	
			<b>PSB1-RP - RADIOLOGICAL HAZARD ANALYSIS</b>		<b>1</b>
1	09/10/2012	09/14/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>EB3 ISI - UNIT 1 INSERVICE INSPECTION</b>		<b>1</b>
1	09/17/2012	09/21/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3SGISI - UNIT 1 SG INSERVICE INSPECTION</b>		<b>1</b>
1	09/24/2012	09/28/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>5</b>
1	10/09/2012	10/12/2012	IP 71152B	Problem Identification and Resolution	
1	10/22/2012	10/26/2012	IP 71152B	Problem Identification and Resolution	
			<b>PSB1EP - EMERGENCY PREPAREDNESS INSPECTION</b>		<b>2</b>
1	10/15/2012	10/19/2012	IP 7111402	Alert and Notification System Testing	
1	10/15/2012	10/19/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	10/15/2012	10/19/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	10/15/2012	10/19/2012	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>
1	11/05/2012	11/09/2012	V23389	WATTS BAR/NOVEMBER 2012 INITIAL EXAM AT POWER FACILITIES	
			<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>
1	11/12/2012	11/16/2012	IP 7111111B	Licensed Operator Requalification Program	

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

**Watts Bar**  
**Inspection / Activity Plan**  
**03/01/2012 - 06/30/2013**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>3</b>
1	11/26/2012	11/30/2012	V23389	WATTS BAR/NOVEMBER 2012 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>3</b>
1	12/03/2012	12/07/2012	V23389	WATTS BAR/NOVEMBER 2012 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>
1	05/13/2013	05/17/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM WEEK 1</b>		<b>3</b>
1	06/03/2013	06/07/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
			<b>TI-182 - TI-182 BURIED PIPING/TANK - PHASE 1</b>		<b>1</b>
1	06/03/2013	06/07/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			<b>OL EXAM - INITIAL EXAM WEEK 2</b>		<b>3</b>
1	06/10/2013	06/14/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	

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