



**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
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Division of Reactor Projects

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

Enclosure: Watts Bar Inspection/Activity Plan

TVA

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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			
			OL EXAM - INITIAL EXAM PREP		3
1	11/21/2011	11/23/2013	V23362	WATTS BAR / OCTOBER 2011 EXAM AT POWER FACILITIES	
			CDBI - COMPONENT DESIGN BASES INSPECTION		7
1	02/27/2012	03/02/2012	IP 7111121	Component Design Bases Inspection	
			MODS - MODIFICATIONS INSPECTION		5
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	
			EB3 HS - TRIENNIAL HEAT SINK INSPECTION		1
1	06/04/2012	06/08/2012	IP 7111107T	Heat Sink Performance	
			PSB1-RP - PUBLIC RADIATION SAFETY BASELINE		3
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	
			PSB1-RP - RADIOLOGICAL HAZARD ANALYSIS		1
1	09/10/2012	09/14/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			EB3 ISI - UNIT 1 INSERVICE INSPECTION		1
1	09/17/2012	09/21/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3SGISI - UNIT 1 SG INSERVICE INSPECTION		1
1	09/24/2012	09/28/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
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	
			PSB1EP - EMERGENCY PREPAREDNESS INSPECTION		2
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	
			OL EXAM - INITIAL EXAM PREP		3
1	11/05/2012	11/09/2012	V23389	WATTS BAR/NOVEMBER 2012 INITIAL EXAM AT POWER FACILITIES	
			OL RQ - REQUAL INSPECTION		2
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			
			OL EXAM - INITIAL EXAM - WEEK 1		3
1	11/26/2012	11/30/2012	V23389	WATTS BAR/NOVEMBER 2012 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 2		3
1	12/03/2012	12/07/2012	V23389	WATTS BAR/NOVEMBER 2012 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM PREP		3
1	05/13/2013	05/17/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM WEEK 1		3
1	06/03/2013	06/07/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
			TI-182 - TI-182 BURIED PIPING/TANK - PHASE 1		1
1	06/03/2013	06/07/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			OL EXAM - INITIAL EXAM WEEK 2		3
1	06/10/2013	06/14/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	

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