



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

March 4, 2015

Mr. Joseph W. Shea  
Vice President, Nuclear Licensing  
Tennessee Valley Authority  
1101 Market Street, LP 3D-C  
Chattanooga, TN 37402-2801

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR WATTS BAR NUCLEAR PLANT UNIT 1,  
NRC INSPECTION REPORT 05000390/2014001**

Dear Mr. Shea:

On February 10, 2014, the NRC completed its end-of-cycle performance review of Watts Bar Nuclear Plant Unit 1. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014, through December 31, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Watts Bar Unit 1 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at the Watts Bar Nuclear Plant Unit 1 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2016. 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. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the ROP baseline inspections at your facility, we also plan on conducting infrequently performed inspections which include: Temporary Instruction (TI) 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans," Inspection Procedure (IP) 43004, "Inspection of Commercial-Grade Dedication Programs," and an initial operator license examination.

J. Shea

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In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," 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) 997-4511 with any questions you have regarding this letter.

Sincerely,

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Michael F. King, Chief  
Reactor Projects Branch 6  
Division of Reactor Projects

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

Enclosure: Watts Bar Inspection/Activity Plan  
(03/01/2015 – 06/30/2016)

cc Distribution via ListServ

**Watts Bar**  
**Inspection / Activity Plan**  
**03/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>HS - TRIENNIAL HEAT SINK PERFORMANCE</b>		<b>1</b>
1	06/08/2015	06/12/2015	IP 7111107T	Heat Sink Performance	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	06/22/2015	06/26/2015	V23423	WATTS BAR U1/JULY 2015 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	07/20/2015	07/24/2015	V23423	WATTS BAR U1/JULY 2015 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP OCCUPATIONAL BASELINE WEEK 1</b>		<b>3</b>
1	10/05/2015	10/09/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/05/2015	10/09/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/05/2015	10/09/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/05/2015	10/09/2015	IP 71124.04	Occupational Dose Assessment	
1	10/05/2015	10/09/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1	10/05/2015	10/09/2015	IP 71151	Performance Indicator Verification	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	10/12/2015	10/16/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL BASELINE WEEK 2</b>		<b>2</b>
1	10/19/2015	10/23/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/19/2015	10/23/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/19/2015	10/23/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/19/2015	10/23/2015	IP 71124.04	Occupational Dose Assessment	
1	10/19/2015	10/23/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1	10/19/2015	10/23/2015	IP 71151	Performance Indicator Verification	
			<b>EP - EP EXERCISE</b>		<b>8</b>
1	11/16/2015	11/20/2015	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/16/2015	11/20/2015	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
1	11/16/2015	11/20/2015	IP 71151	Performance Indicator Verification	
			<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>
1	02/01/2016	02/05/2016	IP 7111121	Component Design Bases Inspection	
1	02/29/2016	03/04/2016	IP 7111121	Component Design Bases Inspection	
1	03/14/2016	03/18/2016	IP 7111121	Component Design Bases Inspection	
1	03/28/2016	04/01/2016	IP 7111121	Component Design Bases Inspection	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	06/20/2016	06/24/2016	V23475	WATTS BAR JULY 2016 INITIAL EXAM AT POWER FACILITIES	

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