



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

September 4, 2012

Mr. Joseph W. Shea
Manager, Corp. Nuclear Licensing Programs
Tennessee Valley Authority
1101 Market Street, LP 4B-C
Chattanooga, TN 37402-2801

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR WATTS BAR NUCLEAR PLANT
UNIT 1, REPORT 05000390/2012006

Dear Mr. Shea:

On August 16, 2012, the NRC completed its mid-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 July 1, 2011, through June 30, 2012. 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 assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program.

The NRC determined the performance at Watts Bar Unit 1 during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of one greater-than-green Security Cornerstone input as described in Report Number 05000390/2011402 sent on September 20, 2011. On June, 29, 2011, the NRC completed a supplemental inspection for the security issue. Based on the successful completion of the supplemental inspection, the finding was removed from the assessment process after four quarters and Watts Bar Unit 1 will return to the Licensee Response Column in the 3rd quarter 2012. Therefore, based on all other inspection findings having very low (i.e., Green) safety significance and all PIs indicating your performance was within the nominal, expected range (i.e., Green), the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." We also plan on conducting 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. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-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 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 (09/01/2012 – 12/31/2013)

cc w/encl: (See page 3)

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Watts Bar
Inspection / Activity Plan
09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	09/17/2012	09/21/2012	EB3 ISI	- UNIT 1 INSERVICE INSPECTION	1
1	09/24/2012	09/28/2012	EB3 SGISI	- UNIT 1 SG INSERVICE INSPECTION	1
1	10/15/2012	10/19/2012	PSB1 EP	- EMERGENCY PREPAREDNESS INSPECTION	3
1	10/15/2012	10/19/2012	IP 7111108P	Inservice Inspection Activities - PWR	
1	10/15/2012	10/19/2012	IP 7111108P	Inservice Inspection Activities - PWR	
1	10/15/2012	10/19/2012	IP 71111402	Alert and Notification System Testing	
1	10/15/2012	10/19/2012	IP 71111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	10/15/2012	10/19/2012	IP 71111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	10/15/2012	10/19/2012	IP 711151	Performance Indicator Verification	
1	11/12/2012	11/16/2012	OL RQ	- REQUAL INSPECTION	2
1	02/04/2013	02/08/2013	P&R	- PROBLEM IDENTIFICATION AND RESOLUTION	8
1	02/18/2013	02/22/2013	IP 71152B	Problem Identification and Resolution	
1	02/18/2013	02/22/2013	IP 71152B	Problem Identification and Resolution	
1	02/25/2013	03/01/2013	OL EXAM	- INITIAL EXAM PREP	3
1	03/18/2013	03/22/2013	V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	
1	03/25/2013	03/29/2013	OL EXAM	- INITIAL EXAM - WEEK 1	1
1	03/25/2013	03/29/2013	V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	
1	06/03/2013	06/07/2013	T1-182	- T1-182 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	
1	07/22/2013	07/26/2013	PSB1-RP	- RP OCCUPATIONAL BASELINE	5
1	07/22/2013	07/26/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	07/22/2013	07/26/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1	07/22/2013	07/26/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	07/22/2013	07/26/2013	IP 71124.04	Occupational Dose Assessment	
1	07/22/2013	07/26/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1	07/22/2013	07/26/2013	IP 71151	Performance Indicator Verification	
1	08/05/2013	08/09/2013	PSB1-RP	- RP OCCUPATIONAL BASELINE WEEK2	2
1	08/05/2013	08/09/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	08/05/2013	08/09/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1	08/05/2013	08/09/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	08/05/2013	08/09/2013	IP 71124.04	Occupational Dose Assessment	

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

Enclosure

Watts Bar
Inspection / Activity Plan
09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
				PSB1-RP - RP OCCUPATIONAL BASELINE WEEK2	2
1	08/05/2013	08/09/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1	08/05/2013	08/09/2013	IP 71151	Performance Indicator Verification	
				WB TFP! - WB - TRIENNIAL FIRE PROTECTION INSP	4
1	08/20/2013	08/22/2013	IP 7111105T	Fire Protection [Triennial]	
1	09/09/2013	09/13/2013	IP 7111105T	Fire Protection [Triennial]	
1	09/23/2013	09/27/2013	IP 7111105T	Fire Protection [Triennial]	
				OL EXAM - INITIAL EXAM PREP	3
1	09/23/2013	09/27/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
				OL EXAM - INITIAL EXAM WEEK 1	3
1	10/14/2013	10/18/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
				OL EXAM - INITIAL EXAM WEEK 2	3
1	10/21/2013	10/25/2013	V23395	WATTS BAR/JUNE 2013 INITIAL EXAM AT POWER FACILITIES	
				EP - EMERGENCY PREPAREDNESS EXERCISE	1
1	10/28/2013	11/01/2013	IP 7111401	Exercise Evaluation	
1	10/28/2013	11/01/2013	IP 71151	Performance Indicator Verification	
				Comments:	

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Enclosure