



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

March 4, 2013

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, (REPORT 05000390/2012001)**

Dear Mr. Shea:

On February 14, 2013, the NRC completed its end-of-cycle performance review of the 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, 2012, through December 31, 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.

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 Watts Bar 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 baseline inspections at your facility.

The NRC determined the performance at Watts Bar Unit 1 during the first two calendar quarters 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, 2012, 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 returned to the Licensee Response Column in the 3rd quarter 2012.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. 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.

ML13063A513

J. Shea

2

In addition to the baseline inspection we 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".

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 Scott Shaeffer at 404-997-4521 with any questions you have regarding this letter.

Sincerely,

/RA/

Richard P. Croteau, Director
Division of Reactor Projects

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

Enclosure: Watts Bar Inspection/Activity Plan

cc w/encl: (See page 3)

J. Shea

3

cc w/encl:

Ann Harris
341 Swing Loop
Rockwood, TN 37854

Site Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
Electronic Mail Distribution

David H. Gronek
Plant Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
Electronic Mail Distribution

Donna K. Guinn
Manager, Site Licensing
Watts Bar Nuclear Plant
Tennessee Valley Authority
Electronic Mail Distribution

Terry E. Cribbe
Manager, Corporate Licensing
Tennessee Valley Authority
Electronic Mail Distribution

Edward J. Vigluicci
Associate General Counsel, Nuclear
Tennessee Valley Authority
Electronic Mail Distribution

Gordon P. Arent
Senior Manager, Licensing WBN Unit 2
Watts Bar Nuclear Plant
Tennessee Valley Authority
Electronic Mail Distribution

County Mayor
P.O. Box 156
Decatur, TN 37322

County Executive
375 Church Street
Suite 215
Dayton, TN 37321

Tennessee Department of Environment &
Conservation
Division of Radiological Health
401 Church Street
Nashville, TN 37243

Watts Bar

Inspection / Activity Plan

03/01/2013 - 06/30/2014

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	02/25/2013 03/01/2013	OL EXAM - INITIAL EXAM PREP V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	3
1	03/18/2013 03/22/2013	OL EXAM - INITIAL EXAM - WEEK 1 V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	3
1	03/25/2013 03/29/2013	OL EXAM - INITIAL EXAM - WEEK 2 V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	3
1	06/03/2013 06/07/2013	TI-182 IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1
1	07/22/2013 07/26/2013	RP IP 71124.01	- RP OCCUPATIONAL BASELINE	3
1	07/22/2013 07/26/2013	IP 71124.02	Radiological Hazard Assessment and Exposure Controls	
1	07/22/2013 07/26/2013	IP 71124.03	Occupational ALARA Planning and Controls	
1	07/22/2013 07/26/2013	IP 71124.04	In-Plant Airborne Radioactivity Control and Mitigation	
1	07/22/2013 07/26/2013	IP 71124.05	Occupational Dose Assessment	
1	07/22/2013 07/26/2013	IP 71151	Radiation Monitoring Instrumentation	
1	07/22/2013 07/26/2013		Performance Indicator Verification	
1	08/05/2013 08/09/2013	RP IP 71124.01	- RP OCCUPATIONAL BASELINE WEEK2	2
1	08/05/2013 08/09/2013	IP 71124.02	Radiological Hazard Assessment and Exposure Controls	
1	08/05/2013 08/09/2013	IP 71124.03	Occupational ALARA Planning and Controls	
1	08/05/2013 08/09/2013	IP 71124.04	In-Plant Airborne Radioactivity Control and Mitigation	
1	08/05/2013 08/09/2013	IP 71124.05	Occupational Dose Assessment	
1	08/05/2013 08/09/2013	IP 71151	Radiation Monitoring Instrumentation	
1	08/05/2013 08/09/2013		Performance Indicator Verification	
1	09/09/2013 09/13/2013	TFPI IP 7111105T	- TRIENNIAL FIRE PROTECTION INSP	5
1	09/23/2013 09/27/2013	IP 7111105T	Fire Protection [Triennial]	
1	10/28/2013 11/01/2013	IP 7111401	Fire Protection [Triennial]	
1	10/28/2013 11/01/2013	IP 71151	- EMERGENCY PREPAREDNESS EXERCISE	1
1	09/23/2013 09/27/2013	IP 7111401	Exercise Evaluation	
1	10/14/2013 10/18/2013	IP 71151	Performance Indicator Verification	
1	10/21/2013 10/25/2013	OL EXAM - INITIAL EXAM PREP V23395	- INITIAL EXAM PREP	3
1	10/14/2013 10/18/2013	IP 71151	WATTS BAR/OCTOBER 2013 INITIAL EXAM AT POWER FACILITIES	
1	10/21/2013 10/25/2013	OL EXAM - INITIAL EXAM WEEK 1 V23395	- INITIAL EXAM WEEK 1	3
1	10/21/2013 10/25/2013	OL EXAM - INITIAL EXAM WEEK 2 V23395	- INITIAL EXAM WEEK 2	3
1	10/21/2013 10/25/2013		WATTS BAR/OCTOBER 2013 INITIAL EXAM AT POWER FACILITIES	

This report does not include INFO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Enclosure

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	04/14/2014 04/18/2014	ISI IP 7111108P	- UNIT 1 IN-SERVICE INSPECTION Inservice Inspection Activities - PWR	1
1	04/21/2014 04/25/2014	RP IP 71124.01	- RP OCCUPATIONAL BASELINE Radiological Hazard Assessment and Exposure Controls	2
1	04/21/2014 04/25/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/21/2014 04/25/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/21/2014 04/25/2014	IP 71124.04	Occupational Dose Assessment	
1	04/21/2014 04/25/2014	IP 71124.05	Radiation Monitoring Instrumentation	
1	04/21/2014 04/25/2014	IP 71151	Performance Indicator Verification	
1	04/21/2014 04/25/2014	SGISI IP 7111108P	- UNIT 1 SG IN-SERVICE INSPECTION Inservice Inspection Activities - PWR	1

Comments:

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