



**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.

J. Shea

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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

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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".

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Richard P. Croteau, Director  
Division of Reactor Projects

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cc w/encl: (See page 3)

PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE  
ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_       SUNSI REVIEW COMPLETE       FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRS	RII:DRP		
SIGNATURE	JDH /RA/	SMS /RA/	WBJ /RA/	JCS /RA/	RPC /RA/		
NAME	JHamman	SShaeffer	WJones	JShehee	RCroteau		
DATE	03/01/2013	03/01/2013	03/01/2013	03/01/2013	03/04/2013		
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY      DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2012\END OF CYCLE\INPUT\RPB6\WATTS BAR\WATTS 2012 BAR ANNUAL ASSESSMENT EOC LETTER .DOCX

J. Shea

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cc w/encl:

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J. Shea

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Letter to Joseph W. Shea from Scott M. Shaeffer dated March 4, 2013

SUBJECT: ANNUAL ASSESSMENT LETTER FOR WATTS BAR NUCLEAR PLANT  
UNIT 1, REPORT 05000390/2012001

Distribution w/encl:

C. Evans, RII

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OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMWattsBar1 Resource

ROP Assessment

Institute of Nuclear Power Operations (INPO)

## 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	<b>OL EXAM - INITIAL EXAM PREP</b> V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	3
1	03/18/2013 03/22/2013	<b>OL EXAM - INITIAL EXAM - WEEK 1</b> V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	3
1	03/25/2013 03/29/2013	<b>OL EXAM - INITIAL EXAM - WEEK 2</b> V23389	WATTS BAR/MARCH 2013 INITIAL EXAM AT POWER FACILITIES	3
1	06/03/2013 06/07/2013	<b>TI-182</b> IP 2515/182	<b>- TI-182 BURIED PIPING/TANK - PHASE 1</b> Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1
1	07/22/2013 07/26/2013	<b>RP</b> IP 71124.01	<b>- RP OCCUPATIONAL BASELINE</b> Radiological Hazard Assessment and Exposure Controls	3
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	<b>RP</b> IP 71124.01	<b>- RP OCCUPATIONAL BASELINE WEEK2</b> Radiological Hazard Assessment and Exposure Controls	2
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	
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	
1	09/09/2013 09/13/2013	<b>TFPI</b> IP 7111105T	<b>- TRIENNIAL FIRE PROTECTION INSP</b> Fire Protection [Triennial]	5
1	09/23/2013 09/27/2013	IP 7111105T	Fire Protection [Triennial]	
1	10/28/2013 11/01/2013	<b>EP</b> IP 7111401	<b>- EMERGENCY PREPAREDNESS EXERCISE</b> Exercise Evaluation	1
1	10/28/2013 11/01/2013	IP 71151	Performance Indicator Verification	
1	09/23/2013 09/27/2013	<b>OL EXAM - INITIAL EXAM PREP</b> V23395	<b>- INITIAL EXAM PREP</b> WATTS BAR/OCTOBER 2013 INITIAL EXAM AT POWER FACILITIES	3
1	10/14/2013 10/18/2013	<b>OL EXAM - INITIAL EXAM WEEK 1</b> V23395	<b>- INITIAL EXAM WEEK 1</b> WATTS BAR/OCTOBER 2013 INITIAL EXAM AT POWER FACILITIES	3
1	10/21/2013 10/25/2013	<b>OL EXAM - INITIAL EXAM WEEK 2</b> V23395	<b>- INITIAL EXAM WEEK 2</b> WATTS BAR/OCTOBER 2013 INITIAL EXAM AT POWER FACILITIES	3

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	<b>ISI</b> IP 7111108P	<b>- UNIT 1 IN-SERVICE INSPECTION</b> Inservice Inspection Activities - PWR	1
1	04/21/2014 04/25/2014	<b>RP</b> IP 71124.01	<b>- RP OCCUPATIONAL BASELINE</b> 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	<b>SGISI</b> IP 7111108P	<b>- UNIT 1 SG IN-SERVICE INSPECTION</b> 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.