



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

March 2, 2016

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 05000390/2015006**

Dear Mr. Shea:

On February 11, 2016, the NRC completed its end-of-cycle performance review of Watts Bar Nuclear Plant (WBN) Unit 1. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015, through December 31, 2015. 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 December 31, 2017. 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: Inspection Procedure (IP) 43004, Inspection of Commercial-Grade Dedication Programs, and Operator Licensing Examinations. The NRC will continue to evaluate the effectiveness of TVA's oversight and management of operations during Unit 2 startup, in accordance with IMC 2517 "Watts Bar 2 Inspection Program". This will include inspections and reviews addressing the organizational and operational challenges associated with the integration of both Watts Bar units.

J. Shea

2

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) 997-4415 with any questions you have regarding this letter.

Sincerely,

/RA/

Alan Blamey, Chief
Reactor Projects Branch 6
Division of Reactor Projects

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

Enclosure: Watts Bar Inspection/Activity Plan
(03/01/2016 – 12/31/2017)

cc: Distribution via ListServ

J. Shea

2

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) 997-4415 with any questions you have regarding this letter.

Sincerely,

/RA/

Alan Blamey, Chief
Reactor Projects Branch 6
Division of Reactor Projects

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

Enclosure: Watts Bar Inspection/Activity Plan
(03/01/2016 – 12/31/2017)

cc: Distribution via ListServ

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes No Yes No ACCESSION NUMBER: ML16062A286 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP				
SIGNATURE	CRK1	ABJ3				
NAME	C. Kontz	A. Blamey				
DATE	2/26/2016	3/2/2016				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME:

J. Shea

3

Letter to Joseph W. Shea from Alan Blamey dated March 2, 2016

SUBJECT: ANNUAL ASSESSMENT LETTER FOR WATTS BAR NUCLEAR PLANT UNIT 1,
NRC INSPECTION REPORT 05000390/2015006

Distribution w/encl:

D. Gamberoni, RII

L. Gibson, RII

OE Mail

RIDSNNRRDIRS

PUBLIC

RidsNrrPMWattsBar Resource

ROP Assessment

ROP Reports

Institute of Nuclear Power Operations (INPO)

Watts Bar
Inspection / Activity Plan
03/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			MODS - PLANT MODIFICATIONS INSPECTION		3
1	03/07/2016	03/11/2016	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1	03/21/2016	03/25/2016	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			OL EXAM - INITIAL LICENSE EXAM PREP		3
1	06/20/2016	06/24/2016	V23475	WATTS BAR JULY 2016 INITIAL EXAM AT POWER FACILITIES	
			CDBI - COMPONENT DESIGN BASES INSPECTION		7
1	06/27/2016	07/01/2016	IP 7111121	Component Design Bases Inspection	
1	07/18/2016	07/22/2016	IP 7111121	Component Design Bases Inspection	
1	08/08/2016	08/12/2016	IP 7111121	Component Design Bases Inspection	
1	08/22/2016	08/26/2016	IP 7111121	Component Design Bases Inspection	
			OL EXAM - INITIAL LICENSE EXAM		3
1	07/18/2016	07/22/2016	V23475	WATTS BAR JULY 2016 INITIAL EXAM AT POWER FACILITIES	
			RP - RP PUBLIC RAD SAFETY BASELINE		4
1	08/01/2016	08/05/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	08/01/2016	08/05/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	08/01/2016	08/05/2016	IP 71124.07	Radiological Environmental Monitoring Program	
1	08/01/2016	08/05/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	08/01/2016	08/05/2016	IP 71151	Performance Indicator Verification	
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
1	10/31/2016	11/04/2016	IP 71152B	Problem Identification and Resolution	
1	11/14/2016	11/18/2016	IP 71152B	Problem Identification and Resolution	
			EP - EP PROGRAM INSPECTION		5
1	11/14/2016	11/18/2016	IP 7111402	Alert and Notification System Testing	
1	11/14/2016	11/18/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	11/14/2016	11/18/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/14/2016	11/18/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	11/14/2016	11/18/2016	IP 71151	Performance Indicator Verification	
			OL RQ - REQUAL INSP		2
1	11/14/2016	11/18/2016	IP 7111111B	Licensed Operator Requalification Program	
			ISI - UNIT 1 IN-SERVICE INSPECTION & RVH EXAM		2
1	03/27/2017	03/31/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - RP OCCUPATIONAL INSPECTION WEEK 1		2
1	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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
03/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
RP - RP OCCUPATIONAL INSPECTION WEEK 1					2
1	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/27/2017	03/31/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/27/2017	03/31/2017	IP 71124.04	Occupational Dose Assessment	
1	03/27/2017	03/31/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	03/27/2017	03/31/2017	IP 71151	Performance Indicator Verification	
SGISI - UNIT 1 SG IN-SERVICE INSPECTION					1
1	04/03/2017	04/07/2017	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RP OCCUPATIONAL INSPECTION WEEK 2					3
1	04/17/2017	04/21/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/17/2017	04/21/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/17/2017	04/21/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/17/2017	04/21/2017	IP 71124.04	Occupational Dose Assessment	
1	04/17/2017	04/21/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	04/17/2017	04/21/2017	IP 71151	Performance Indicator Verification	
TFPI - TRIENNIEL FIRE PROTECTION INSPECTION					1
1	09/18/2017	09/22/2017	IP 7111105T	Fire Protection [Triennial]	
1	10/02/2017	10/06/2017	IP 7111105T	Fire Protection [Triennial]	
EP - EP EXERCISE					3
1	11/13/2017	11/17/2017	IP 7111401	Exercise Evaluation	
1	11/13/2017	11/17/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/13/2017	11/17/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1	11/13/2017	11/17/2017	IP 71151	Performance Indicator Verification	

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