



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

August 27, 2019

Mr. Joseph W. Shea
Vice President, Nuclear Regulatory Affairs
and Support Services
Tennessee Valley Authority
1101 Market Street, LP 4A
Chattanooga, TN 37402-2801

SUBJECT: ASSESSMENT FOLLOWUP LETTER AND UPDATED INSPECTION PLAN FOR
WATTS BAR NUCLEAR PLANT, UNITS 1 AND 2 (REPORTS 05000390,
05000391/2019005)

Dear Mr. Shea:

As a result of its quarterly review of plant performance, which was completed on August 1, 2019, the U.S. Nuclear Regulatory Commission (NRC) updated its assessment of Watts Bar Nuclear Plant (WBN), Units 1 and 2. The NRC's evaluation consisted of a review of performance indicators (PIs) and inspection results. This letter informs you of the NRC's assessment of your facility. This letter supplements, but does not supersede, the annual assessment letter issued on March 4, 2019 (Agency-wide Documents Access and Management System (ADAMS) Accession No. ML19063D287).

In assessment letter dated August 31, 2018, titled Assessment Follow-up Letter and Updated Inspection Plan for Watts Bar Nuclear Plant, Units 1 and 2 (Reports 05000390, 05000391/2018005) (ML 18242A458), the NRC opened a cross-cutting issue (CCI) with the aspect of Safety Conscious Work Environment (SCWE) and identified the closure criteria for the Chilling Effect Letter (CEL) and CCI. The NRC determined that TVA has made progress to address the CEL and CCI closure criteria based on the 2019 NRC Problem Identification and Resolution Inspection and Confirmatory Order and SCWE Follow Up (ML19072A067); and routine resident baseline inspections. The CEL and CCI will remain open until the NRC completes an independent inspection to confirm that the closure criteria have been met. NRC understands that, TVA plans to submit the readiness inspection letter to NRC by October 3, 2019.

This is the third consecutive assessment letter documenting a CCI with the same cross-cutting aspect – SCWE. Therefore, the NRC requests you provide the specific corrective actions to meet the CCI closure criteria in your readiness inspection letter. The NRC will continue to monitor your staff's effort and progress addressing the CEL, CCI and the site's SCWE by routine resident inspections; and the SCWE Follow Up and Confirmatory Orders inspections on October 21, 2019.

The enclosed inspection plan lists the inspections scheduled through June 30, 2021, for Watts Bar Nuclear Plant. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"), and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In addition to the Reactor Oversight Program baseline inspections at your facility, we also plan to conduct Initial License Examinations and SCWE and Confirmatory Orders Follow Up Inspections.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, and Requests for Withholding."

Please contact Omar R. López-Santiago at (404) 997-4703 with any questions you may have regarding this letter.

Sincerely,

/RA/

Mark Miller, Director
Division of Reactor Projects

Docket Nos.: 50-390, 50-391
License No.: NPF-90, NPF-96

Enclosure:
Watts Bar IP 22 Inspection Activity Plan Report
(08/30/2019 – 06/30/2021)

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WATTS BAR NUCLEAR PLANT, UNITS 1 AND 2 (REPORTS 05000390,
05000391/2019005)

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ADAMS Accession Number: ML19239A139

OFFICE	RII/DRP	RII/DRP	RII/DRP	RII/DRP	RII/DRP
NAME	SNinh	JNadel	OLopez-Santiago	MCrespo	MMiller
DATE	8/21/2019	8/20/2019	8/22/2019	8/21/2019	8/26/2019

OFFICIAL AGENCY RECORD

IP 22 Inspection Activity Plan Report

Watts Bar

08/30/2019 - 06/30/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
DESIGN BASES ASSURANCE INSPECTION (TEAM)						6
1, 2	08/26/2019	08/30/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
SCWE AND CONFIRMATORY ORDERS FOLLOWUP INSPECTIONS						2
1, 2	10/21/2019	10/25/2019	IP 92702 CONF	001581	Enforcement Related Order Follow-Up-Only	
1, 2	10/21/2019	10/25/2019	IP 93100	000921	Safety-Conscious Work Environment Issue of Concern Followup	
EMERGENCY PREPAREDNESS EXERCISE						6
1, 2	11/04/2019	11/08/2019	IP 71114.01	000716	Exercise Evaluation	
1, 2	11/04/2019	11/08/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	11/04/2019	11/08/2019	IP 71151	001397	Performance Indicator Verification	
CYBER SECURITY						4
1, 2	11/18/2019	11/22/2019	IP 71130.10P	000741	Cyber Security	
1, 2	12/02/2019	12/06/2019	IP 71130.10P	000741	Cyber Security	
TVA CORPORATE OFFICE FFD/AA/SGI INSPECTION						2
1, 2	01/06/2020	01/10/2020	IP 71130.01	000733	Access Authorization	
1, 2	01/06/2020	01/10/2020	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	01/06/2020	01/10/2020	IP 71130.08	000740	Fitness For Duty Program	
SECURITY BASELINE INSPECTION						1
1, 2	02/24/2020	02/28/2020	IP 71130.01	000733	Access Authorization	
1, 2	02/24/2020	02/28/2020	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	02/24/2020	02/28/2020	IP 71130.08	000740	Fitness For Duty Program	
UNIT 1 IN-SERVICE INSPECTION						1
1	03/23/2020	03/27/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
SECURITY BASELINE INSPECTION						1
1, 2	06/15/2020	06/19/2020	IP 71130.02	000734	Access Control	
1, 2	06/15/2020	06/19/2020	IP 71151	001338	Performance Indicator Verification	
WATTS BAR INITIAL LICENSE EXAM						4
1, 2	07/20/2020	07/24/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	08/24/2020	09/04/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	

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

Page 1 of 3
8/20/2019 1:19:10 PM

Enclosure

IP 22 Inspection Activity Plan Report

Watts Bar

08/30/2019 - 06/30/2021

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RP PUBLIC RAD SAFETY BASELINE						2
1, 2	08/10/2020	08/14/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	08/10/2020	08/14/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
DESIGN BASES ASSURANCE INSPECTION (PROGRAMS)						3
1, 2	08/31/2020	09/04/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	09/21/2020	09/25/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
UNIT 2 IN-SERVICE INSPECTION +SG						2
2	10/26/2020	10/30/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
WATTS BAR REQUAL INSPECTION						2
1, 2	11/02/2020	11/06/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
RP OCCUPATIONAL RAD SAFETY & TRANSPORTATION BASELINE INSPECTION						2
1, 2	11/02/2020	11/06/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/02/2020	11/06/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
SECURITY BASELINE INSPECTION						2
1, 2	11/02/2020	11/06/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	11/02/2020	11/06/2020	IP 71130.07	000739	Security Training	
1, 2	11/02/2020	11/06/2020	IP 71151	001338	Performance Indicator Verification	
TARGET SET						1
1, 2	11/02/2020	11/06/2020	IP 71130.14	000743	Review of Power Reactor Target Sets	
EMERGENCY PREPAREDNESS PROGRAM INSPECTION						2
1, 2	11/16/2020	11/20/2020	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	11/16/2020	11/20/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	11/16/2020	11/20/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	11/16/2020	11/20/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	11/16/2020	11/20/2020	IP 71151	001397	Performance Indicator Verification	
TRIENNIAL FIRE PROTECTION INSPECTION						4
1, 2	02/01/2021	02/05/2021	IP 71111.05T	000696	Fire Protection	
1, 2	02/15/2021	02/19/2021	IP 71111.05T	000696	Fire Protection	

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Page 2 of 3
8/20/2019 1:19:10 PM

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Watts Bar

08/30/2019 - 06/30/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
EVALUATIONS OF CHANGES, TESTS, AND EXPERIMENTS						3
1, 2	03/29/2021	04/02/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
PROBLEM IDENTIFICATION AND RESOLUTION						4
1, 2	05/03/2021	05/07/2021	IP 71152B	000747	Problem Identification and Resolution	
1, 2	05/17/2021	05/21/2021	IP 71152B	000747	Problem Identification and Resolution	

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Page 3 of 3
8/20/2019 1:19:10 PM