



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

February 28, 2018

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: ANNUAL ASSESSMENT LETTER FOR SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2 - REPORT 05000327/2017006 AND 05000328/2017006, REPORT 05000327/2017402 AND 05000328/2017402, AND 05000327/2017501 AND 05000328/2017501

Dear Mr. Shea:

The Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of the Sequoyah Nuclear Plant Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017, through December 31, 2017. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Sequoyah Nuclear Plant, Units 1 and 2, during the most recent quarter, was within the Regulatory Response Column, the second highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on one greater-than-Green inspection finding in the Security cornerstone in the third quarter of 2017, and all PIs were within the expected range (i.e., Green).

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." The objectives of the supplemental inspection are: (1) to ensure the root and contributing causes, and extent of condition and extent of cause of significant performance issues are understood, (2) to ensure corrective actions taken to address and preclude repetition are prompt and effective, and (3) to ensure corrective action plans direct prompt actions to effectively address and preclude repetition of significant performance issues. This inspection will be scheduled after you notify the NRC of your readiness.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. 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. The inspections listed during the last 12 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 ROP baseline inspections, we also plan on conducting infrequently performed inspections, which include Units 1 and 2 Post-Approval License Renewal Phase 1.

The International Atomic Energy Association completed an Operational Safety Review Team (OSART) at Sequoyah in 2017. The completion of that inspection entitles Sequoyah to a one-time credit to the baseline inspection of the ROP which will be made in accordance with MC 2515, "Light-Water Reactor Inspection Program – Operations Phase", Section 2515-08.05, Baseline Inspection Credit for Operational Safety Review Team Effort. The details of that credit can be found in the Agency Document Access and Management System (ADAMS) Accession No. ML18024A025.

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 Anthony Masters at (404) 997-4465 with any questions you may have regarding this letter.

Sincerely,

/RA/

Joel T. Munday, Director
Division of Reactor Projects

Docket Nos.: 50-327, 50-328
License Nos.: DPR-77, DPR-79

Enclosure:
Sequoyah Inspection/Activity Plan
(03/01/2018 – 12/31/2019)

cc Distribution via ListServ

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OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRS	RII:DRS	RII:DRP
NAME	BBishop	SNinh	AMasters	DGolden	SSanchez	D. Hardage
DATE	2/14/2018	2/23/2018	2/26/2018	2/14/2018	2/15/2018	2/14/2018
OFFICE	RII:DRP					
NAME	JMunday					
DATE	2/27/2018					

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IP 22 Inspection Activity Plan Report

Sequoyah

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
SECURITY BASELINE INSPECTION						1
1, 2	03/05/2018	03/09/2018	IP 71130.02	000734	Access Control	
1, 2	03/05/2018	03/09/2018	IP 71151	001338	Performance Indicator Verification	
95001 SUPPLEMENTAL FOR SGI ISSUE						1
1, 2	03/26/2018	03/30/2018	IP 95001	001346	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	
UNIT 1 POST-APPROVAL LR PHASE 1						2
1	04/16/2018	04/20/2018	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
UNIT 1 IN-SERVICE INSPECTION						1
1	04/16/2018	04/20/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
EVALUATIONS OF CHANGES, TESTS AND EXPERIMENTS						3
1, 2	06/04/2018	06/08/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
TRIENNIAL HEAT SINK PERFORMANCE						1
1, 2	08/06/2018	08/10/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
EP EXERCISE						5
1, 2	10/01/2018	10/05/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/01/2018	10/05/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/01/2018	10/05/2018	IP 71151	001397	Performance Indicator Verification	
SEQUOYAH REQUAL INSPECTION						2
1, 2	10/08/2018	10/12/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
UNIT 2 POST-APPROVAL LR PHASE 1						2
2	10/29/2018	11/02/2018	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
UNIT 2 IN-SERVICE INSPECTION						1
2	10/29/2018	11/02/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
UNIT 2 SG IN-SERVICE INSPECTION						1
2	10/29/2018	11/02/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	

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

IP 22 Inspection Activity Plan Report

RP OCCUPATIONAL - WEEK 1						3
1, 2	11/12/2018	11/16/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/12/2018	11/16/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	11/12/2018	11/16/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/12/2018	11/16/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	11/12/2018	11/16/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	11/12/2018	11/16/2018	IP 71151	000746	Performance Indicator Verification	
RP OCCUPATIONAL - WEEK 2						2
1, 2	11/26/2018	11/30/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/26/2018	11/30/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	11/26/2018	11/30/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/26/2018	11/30/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	11/26/2018	11/30/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	11/26/2018	11/30/2018	IP 71151	000746	Performance Indicator Verification	
DESIGN BASES ASSURANCE INSPECTION (TEAM)						6
1, 2	01/28/2019	02/01/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	02/25/2019	03/01/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	03/11/2019	03/15/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
SECURITY BASELINE INSPECTION						3
1, 2	01/28/2019	02/01/2019	IP 71130.02	000734	Access Control	
1, 2	01/28/2019	02/01/2019	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	01/28/2019	02/01/2019	IP 71151	001338	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						2
1, 2	04/01/2019	04/05/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	04/01/2019	04/05/2019	IP 71130.07	000739	Security Training	
RP RADHAZARD & TRANS						2
1, 2	05/06/2019	05/10/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/06/2019	05/10/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
PROBLEM IDENTIFICATION AND RESOLUTION						2
1, 2	06/03/2019	06/07/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	06/17/2019	06/21/2019	IP 71152B	000747	Problem Identification and Resolution	

IP 22 Inspection Activity Plan Report

RP PUBLIC & PIV						2
1, 2	07/15/2019	07/19/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/15/2019	07/19/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/15/2019	07/19/2019	IP 71151	000746	Performance Indicator Verification	
MC&A INSPECTION						2
1, 2	10/01/2019	12/31/2019	IP 71130.11	000742	Material Control and Accounting (MC&A)	
UNIT 1 IN-SERVICE INSPECTION						1
1	10/14/2019	10/18/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
UNIT 1 SG IN-SERVICE INSPECTION						1
1	10/14/2019	10/18/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	