



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

March 4, 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: ANNUAL ASSESSMENT LETTER FOR SEQUOYAH NUCLEAR PLANT,
UNITS 1 AND 2 - REPORT 05000327/2018006 AND 05000328/2018006

Dear Mr. Shea:

The 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, 2018, through December 31, 2018. 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.

Sequoyah Nuclear Plant, Units 1 and 2 were in the Regulatory Response Column in the first and second quarters of CY 2018 for the greater-than-Green inspection finding in the Security cornerstone identified in the third quarter of CY 2017. On May 3, 2018, the NRC completed a review of your corrective actions for the greater-than-Green inspection finding in the Security cornerstone, using Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." The NRC's inspection was documented in NRC inspection report (IR) 05000327, 328/2018440, which is publically available in ADAMS, Accession No. ML18123A121. Based on the results of this inspection, the NRC determined the performance at Sequoyah Nuclear Plant, Units 1 and 2 returned to the Licensee Response Column (Column 1) of the Reactor Oversight Process (ROP) Action Matrix in the third quarter of CY 2018.

The NRC determined the performance at Sequoyah Nuclear Plant, Units 1 and 2 during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's ROP Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

In addition to the ROP baseline inspections, we also plan on conducting infrequently performed inspections which include Initial License Examination, Unit 2 Post-Approval License Renewal Phase 2, Safety Conscious Work Environment and Confirmatory Orders Follow-up inspections. The NRC will be in contact with your staff to schedule completion of Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)." The NRC intends to complete this inspection in 2019.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. 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"). 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.

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 López-Santiago at (404) 997-4703 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
(3/01/2019 – 12/31/2020)

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1 AND 2 - REPORT 05000327/2018006 AND 05000328/2018006 – March 4,
2019

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ADAMS Accession No. ML19063D084 .

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IP 22 Inspection Activity Plan Report

Sequoyah

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
DESIGN BASES ASSURANCE INSPECTION (TEAM)						6
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	04/01/2019	04/05/2019	IP 71130.02	000734	Access Control	
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	
1, 2	04/01/2019	04/05/2019	IP 71151	001338	Performance Indicator Verification	
PROBLEM IDENTIFICATION AND RESOLUTION						4
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	
SCWE AND CONFIRMATORY ORDERS FOLLOWUP INSPECTIONS						2
1, 2	06/03/2019	06/07/2019	IP 92702	000238	Followup on Corrective Actions For Violations And Deviations	
1, 2	06/03/2019	06/07/2019	IP 93100	000921	Safety-Conscious Work Environment Issue of Concern Followup	
RP PUBLIC RAD SAFETY BASELINE INSPECTION						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	
RP OCCUPATIONAL RAD SAFETY RAD HAZARDS & TRANSPORTATION BASELINE INSPECTION						2
1, 2	10/07/2019	10/11/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/07/2019	10/11/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
UNIT 1 IN-SERVICE INSPECTION +SG						1
1	10/14/2019	10/18/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
EMERGENCY PREPAREDNESS PROGRAM INSPECTION						2
1, 2	12/09/2019	12/13/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	12/09/2019	12/13/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	12/09/2019	12/13/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	12/09/2019	12/13/2019	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	12/09/2019	12/13/2019	IP 71151	001397	Performance Indicator Verification	

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

Sequoyah

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
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	
POST-APPROVAL LR PHASE 2						5
1, 2	01/20/2020	01/24/2020	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
1, 2	02/03/2020	02/07/2020	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
SECURITY BASELINE INSPECTION						2
1, 2	01/27/2020	01/31/2020	IP 71130.01	000733	Access Authorization	
1, 2	01/27/2020	01/31/2020	IP 71130.02	000734	Access Control	
1, 2	01/27/2020	01/31/2020	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	01/27/2020	01/31/2020	IP 71130.08	000740	Fitness For Duty Program	
1, 2	01/27/2020	01/31/2020	IP 71151	001338	Performance Indicator Verification	
SEQUOYAH INITIAL LICENSE EXAM						5
1, 2	01/27/2020	01/31/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	03/02/2020	03/20/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
DESIGN BASES ASSURANCE INSPECTION (PROGRAM)						3
1, 2	02/24/2020	02/28/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	03/09/2020	03/13/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
UNIT 2 IN-SERVICE/SG IN-SERVICE INSPECTION						2
2	04/20/2020	04/24/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION - WEEK 1						2
1, 2	04/20/2020	04/24/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/20/2020	04/24/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/20/2020	04/24/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/20/2020	04/24/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	04/20/2020	04/24/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION - WEEK 2						3
1, 2	05/11/2020	05/15/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	

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IP 22 Inspection Activity Plan Report

Sequoyah

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION - WEEK 2						3
1, 2	05/11/2020	05/15/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	05/11/2020	05/15/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	05/11/2020	05/15/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	05/11/2020	05/15/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
TRIENNIAL FIRE PROTECTION INSPECTION						4
1, 2	06/08/2020	06/12/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
1, 2	06/22/2020	06/26/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
FORCE-ON-FORCE PLANNING AND EXERCISE						6
1, 2	07/06/2020	07/10/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	07/27/2020	07/31/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
SEQUOYAH REQUAL INSPECTION						2
1, 2	10/05/2020	10/09/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	