



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

March 3, 2020

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEQUOYAH NUCLEAR PLANT,
UNITS 1 AND 2 - REPORT 05000327/2019006 AND 05000328/2019006

Dear Mr. Barstow:

The NRC has completed its end-of-cycle performance assessment of Sequoyah Nuclear Plant, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2019, through December 31, 2019. 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 Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (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 and Unit 2 Post-Approval License Renewal Phase 2.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. 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. 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 me at (404) 997-4703 with any questions you may have regarding this letter.

Sincerely,

/RA/

Thomas Stephen, Acting Chief
Reactor Projects Branch 5
Division of Reactor Projects

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

Enclosure:
Sequoyah Inspection/Activity Plan
(3/01/2020 – 12/31/2021)

cc: Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEQUOYAH NUCLEAR PLANT, UNITS 1
AND 2 - REPORT 05000327/2019006 AND 05000328/2019006 – March 3, 2020

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OFFICE	RII:DRP	RII:DRP	RII:DRP			
NAME	J Seat	S Ninh	T Stephen			
DATE	2/18/2020	2/18/2020	2/26/2020			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Sequoyah

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
SEQUOYAH INITIAL LICENSE EXAM						5
1, 2	03/02/2020	03/20/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
DESIGN BASES ASSURANCE INSPECTION (PROGRAMS)						3
1, 2	03/09/2020	03/13/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
UNIT 2 IN-SERVICE INSPECTION						1
2	03/30/2020	04/03/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION						3
1, 2	03/30/2020	04/03/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/30/2020	04/03/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/30/2020	04/03/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/30/2020	04/03/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	03/30/2020	04/03/2020	IP 71151	000746	Performance Indicator Verification	
TRIENNIAL FIRE PROTECTION INSPECTION						4
1, 2	06/08/2020	06/12/2020	IP 71111.05T	000696	Fire Protection	
1, 2	06/22/2020	06/26/2020	IP 71111.05T	000696	Fire Protection	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - SEQ						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	
CYBER SECURITY INSPECTION						2
1, 2	07/20/2020	07/24/2020	IP 71130.10P	000741	Cyber Security	
1, 2	08/03/2020	08/07/2020	IP 71130.10P	000741	Cyber Security	
TARGET SET INSPECTION						1
1, 2	08/03/2020	08/07/2020	IP 71130.14	000743	Review of Power Reactor Target Sets	
SEQUOYAH REQUAL INSPECTION						2
1, 2	10/05/2020	10/09/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
EMERGENCY PREPAREDNESS EXERCISE						5
1, 2	10/12/2020	10/16/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/12/2020	10/16/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Enclosure

IP 22 Inspection Activity Plan Report

Sequoyah

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
EMERGENCY PREPAREDNESS EXERCISE						5
1, 2	10/12/2020	10/16/2020	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
1, 2	10/12/2020	10/16/2020	IP 71151	001397	Performance Indicator Verification	
EVALUATIONS OF CHANGES, TESTS, AND EXPERIMENTS						3
1, 2	03/08/2021	03/12/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
SECURITY BASELINE INSPECTION						3
1, 2	03/08/2021	03/12/2021	IP 71130.02	000734	Access Control	
1, 2	03/08/2021	03/12/2021	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	03/08/2021	03/12/2021	IP 71130.07	000739	Security Training	
1, 2	03/08/2021	03/12/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	03/08/2021	03/12/2021	IP 71151	001338	Performance Indicator Verification	
UNIT 1 IN-SERVICE INSPECTION +SG						2
1	04/12/2021	04/16/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
PROBLEM IDENTIFICATION AND RESOLUTION						4
1, 2	06/07/2021	06/11/2021	IP 71152B	000747	Problem Identification and Resolution	
1, 2	06/21/2021	06/25/2021	IP 71152B	000747	Problem Identification and Resolution	
RP PUBLIC RAD SAFETY INSPECTION						2
1, 2	07/12/2021	07/16/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/12/2021	07/16/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/12/2021	07/16/2021	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	07/12/2021	07/16/2021	IP 71151	000746	Performance Indicator Verification	
TRIENNIAL HEAT SINK PERFORMANCE						1
1, 2	08/02/2021	08/06/2021	IP 71111.07T	000700	Heat Sink Performance	
UNIT 2 IN-SERVICE INSPECTION +SG						2
2	10/25/2021	10/29/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION						2
1, 2	11/01/2021	11/05/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/01/2021	11/05/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	

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This report shows only on-site and announced inspection procedures.

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03/01/2020 - 12/31/2021

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RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION						2
1, 2	11/01/2021	11/05/2021	IP 71151	000746	Performance Indicator Verification	
EMERGENCY PREPAREDNESS PROGRAM INSPECTION						2
1, 2	11/28/2021	12/11/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	11/28/2021	12/11/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	11/28/2021	12/11/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	11/28/2021	12/11/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	11/28/2021	12/11/2021	IP 71151	001397	Performance Indicator Verification	