



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

May 22, 2019

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

**SUBJECT: SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2 – U.S. NUCLEAR  
REGULATORY COMMISSION SECURITY INSPECTION REPORT  
05000327/2019411 AND 05000328/2019411**

Dear Mr. Shea:

On May 10, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed a security baseline inspection at your Sequoyah Nuclear Station, Units 1, 2 and discussed the results of this inspection with Mr. M. Rasmussen and other members of your staff. The results of this inspection are documented in the enclosed report.

No NRC-Identified or self-revealing findings were identified during the inspections.

This letter will be made available for public inspection and copying at <https://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room,

in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

**/RA/**

Binoy Desai, Chief  
Plant Support Branch  
Division of Reactor Safety

Docket Nos. 50-327 and 50-328  
License Nos. DPR-77 and DPR-79

Enclosure:  
NRC IR 05000327/2019411 and  
05000328/2019411

cc: (See page 3)

cc:

Mr. Jonathan T. Johnson  
Manager, Site Licensing  
Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000, OPS 4A-SQN  
Soddy Daisy, TN 37384-2000

Mr. Brian E. Brigman  
Senior Manager  
Site Security Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000, MPB 1A-SQN  
Soddy Daisy, TN 37384-2000

Mr. Ralph A. Dodds  
Director, Plant Support  
Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000, OPS 4A-SQN  
Soddy Daisy, TN 37384-2000

Scott Hunnewell, Plant Manager  
Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
POB 2A-SQN  
Soddy Daisy, TN 37384-2000

SUBJECT: SEQUOYAH NUCLEAR STATION, UNITS 1 AND 2 – U.S. NUCLEAR  
 REGULATORY COMMISSION PHYSICAL SECURITY INSPECTION REPORT  
 05000327/2019411 AND 05000328/2019411 dated May 22, 2019

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ADAMS:  Yes      ACCESSION NUMBER: **ML 19143A241**       SUNSI REVIEW COMPLETE       FORM 665 ATTACHED

OFFICE	RII/ DRS/PSB	RII/DRS/PSB	RII/DRS/PSB	RII/DRS/PSB	RII/DRP	RII/DRS/PSB
SIGNATURE	JPT	BBD for JOB2	ICH for JHW2	BBD	ORL	BBD
NAME	J. Tornow	J. Brown	J. Wallo	B. Desai	O. López-Santiago	B. Desai
DATE	5/ 21 /2019	5/ 22 /2019	5/ 21 /2019	5/ 21 /2019	5/ 22/2019	5/ 22 /2019
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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 Insp Report 2019411.docx

**U.S. NUCLEAR REGULATORY COMMISSION**

**Inspection Report**

Docket Nos: 05000327 and 05000328

License Nos: DPR-77 and DPR-79

Report Nos: 05000327/2019411 and 05000328/2019411

Enterprise Identifier: I-2019-411-003

Licensee: Tennessee Valley Authority

Facility: Sequoyah Nuclear Station, Units 1 and 2

Location: Chattanooga, TN 37402

Dates: April 1-5, 2019  
May 6-10, 2019 (In Office)

Inspectors: Jon Wallo, Senior Physical Security Inspector  
John Tornow, Physical Security Inspector  
Jonathan Brown, Physical Security Inspector

Approved by: Binoy Desai, Chief  
Plant Support Branch  
Division of Reactor Safety

Enclosure

## SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a Baseline Security Inspection at Sequoyah Nuclear Station, Units 1 and 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information. NRC and self-revealed findings, violations, and additional items are summarized in the table below.

### List of Findings and Violations

No findings were identified.

## INSPECTION SCOPE

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## SAFEGUARDS

### 71130.02 - Access Control (1 Sample)

The inspectors evaluated the access control program. The following elements were evaluated from this IP dated January 1, 2019.

Tier I: all requirements  
 Tier II: 8 requirements 02.06 (a-d), 02.07 (a), 02.08 (a), (e), (i)  
 Tier III: 1 requirement 02.10 (a)

### 71130.04 - Equipment Performance, Testing, and Maintenance (1 Sample)

The inspectors evaluated the security testing and maintenance program. The following elements were evaluated from this IP dated January 1, 2019.

Tier I: all 38 requirements  
 Tier II: 4 requirements 02.09 (a); 02.12 (a); 02.13 (a), (d)  
 Tier III: 2 requirements 02.14; 02.15 (a)

### 71130.07 - Security Training (1 Sample)

The inspectors evaluated the nuclear security training program. The following elements were evaluated from this IP dated January 1, 2019.

Tier I: all 16 requirements  
 Tier II: 8 requirements 02.05 (a), (b), (c), (d); 02.06 (a), (b); 02.09 (a)  
 Tier III: 5 requirements 02.10, 02.11(a); 02.13 (a), (b), (c)

## OTHER ACTIVITIES – BASELINE

### 71151 - Performance Indicator Verification (1 Sample)

The inspectors verified licensee performance indicators submittals listed below for the period from March 2018, through March 2019.

(1) Protected Area Security Equipment Performance Index

**EXIT MEETINGS AND DEBRIEFS**

On May 10, 2019, the inspectors presented the Baseline Security Inspection results to Mr. M. Rasmussen and other members of the licensee staff.



## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description of Title	Revision & Date
71130.02	Procedures	NPG-SPP-14.10	Fitness-for-Duty- Alcohol and Drug Testing Requirements	Rev. 4
		NPG-SPP-14.11	Fitness-for-Duty- Medical Review Officers Procedure	Rev. 1
		NPG-SPP-14.12	Fitness-for-Duty-Intoxilyzers Requirements	Rev. 4
		NPG-SPP-14.13	Fitness-for-Duty- Administrative Duties	Rev. 3
		NPG-SPP-14.3	Security Information Control Program	Rev. 16
		NPG-SPP-14.4	Nuclear Security	Rev. 7
		NPG-SPP-14.5	Access Authorization	Rev. 18
		NPG-SPP-14.6	Safety/Security Interface	Rev. 7
		NPG-SPP-14.7	National Threat Advisory System (SSI)	Rev. 2
		BP-108	TVA Nuclear Power Group Nuclear Plant Site Check-In and Check-Out Process	Rev. 24
		NSDP-8	Keys and Locks	Rev. 8
		NSDP-17	Records	Rev. 4
		NSDP-23	Plant Access/Badging Process	Rev. 19
		NSDP-24	Access Authorization Program	Rev. 14
		NSDP-38	Access Authorization- Reviewing Officials	Rev. 9
		NSDP-46	Security Gas Mask Maintenance and Fit Testing Program	Rev. 4
		NSDP-49	Underground Pathway	Rev. 0
		NSDP-52	Quantitative Enzyme Diagnostic (QED) Saliva Alcohol Testing	Rev. 1
		SSI-7.3	Exterior Motor Patrol	Rev. 29
		SSI-7.5	Interior Foot Patrol	Rev. 24
		SSI-7.6	Personnel Access Control	Rev. 40
SSI-7.7	Vehicle Access Control	Rev. 43		
SSI-7.10	Gate 56 Vehicle Access	Rev. 4		

71130.02	Procedures	SSI-13.2	Sequoyah Nuclear Plant Law Enforcement Response Plan	Rev. 4
		SSI-14.1	Special Situations Affecting Security	Rev. 5
		SSI-16.1	Compensatory Measures	Rev. 16
		SSI-19.1	Temporary Suspension and/or Alteration of Security Measures	Rev. 13
		SSI-20.1	Guidance on the Protection of Unattended Openings that Intersect a Security Boundary	Rev. 4
		SSI-27.1	Radioactive Material / Nuclear Fuel Receipt	Rev. 3
		SSI-29.1	Security Seals	Rev. 3
71130.04	Procedures	NPG-SPP-14.2	Target Set Development, Identification and Maintenance (SSI)	Rev. 8
		CTP-0-SEC-FPI-623.W	Card Reader and Balanced Magnetic Switch Operability Test	Rev. 1
		CTP-0-SEC-FPI-625.S	Card Reader and Hand Geometry Performance Test	Rev. 0
		CTP-0-SEC-FPI-645.S	Perimeter Intrusion Detection System Performance Test	Rev. 1
		CTP-0-SEC-FPI-630.W	Perimeter Intrusion Detection and CCTV Systems Operability Test	Rev. 1
		CTP-0-SEC-FPI-643.W	X-Ray Equipment Operability/Performance Test	Rev. 2
		CTP-0-SEC-FPI-644.W	Weekly Vehicle Barrier System Operational Test	
		CTP-0-SEC-FPI-645.S	Perimeter Intrusion Detection System Performance Test	Rev. 1
		CTP-0-SEC-FPI-645.W	Hand Held Metal Detector Operability/Performance Test	
		CTP-0-SEC-FPI-646.W	Walk Through Metal Detector Operability/Performance Test	Rev. 1
		CTP-0-SEC-FPI-647.W	Explosive Detector Operability/Performance Test	Rev. 2

71130.04	Procedures	CTP-0-SEC-FPI-676.Q	Owner Controlled, Protected, and Vital Barrier Inspection	
		CTP-0-SEC-FPI-678.A	Annual Vehicle Barrier System Inspection	
		CTP-0-SEC-FPM-001	CCTV System Preventative Maintenance Procedure Maintenance and Functional Testing	Rev. 2
		CTP-0-SEC-FPM-002	Annual Metal Detector Preventative Maintenance	Rev. 1
		CTP-0-SEC-FPM-007	Explosive Detector Testing	Rev. 0
		SSI-7.1	Central and Secondary Alarm Stations	Rev. 36
		SSI-7.4	Bullet Resistant Enclosures / Semi-Static Posts	Rev. 21
		SSI-15.1	Testing and Maintenance	Rev. 10
		SSI-26.2	Response Equipment Inspection and Inventory	Rev. 0
71130.07	Procedures	BP-106	Administering NPG Medical Examination Process	Rev. 4
		NPG-SPP-14.1	Fitness for Duty	Rev. 16
		NPG-SPP-14.8	Guideline for Security Response to Indications of Tampering, Vandalism and Malicious Mischief	Rev. 2
		NPG-SPP-14.14	Fitness-for-Duty- Training and Field Support for the Fitness of Duty Program	Rev. 3
		NSDP-1	Safeguards Event Reporting Guideline	Rev. 14
		NSDP-4	Security Organization, Expectations and Standards	Rev. 20
		NSDP-18	Administration of Security Training	Rev. 14
		NSDP-22	Security Contingency Events (SGI)	Rev. 6
		NSDP-26	Weapons Accountability	Rev. 19
NSDP-27	Conduct of Security Drills and Exercises/Performance Evaluation Program	Rev. 15		

71130.07	Procedures	NSDP-30	Security Duty Restrictions/Return to Work	Rev. 8
		NSDP-32	TVA Nuclear Security Law Enforcement Plan	Rev. 0
		NSDP-39	Security Operating Experience	Rev. 2
		NSDP-40	Reporting of Non-Threat Security Events	Rev. 2
		NSDP-43	Safeguards Adjudication	Rev. 3
		NSDP-44	Graded Systematic Approach to Security Training (GSAST)	Rev. 6
		NSDP-44.1	Security On-The-Job Training	Rev. 3
		NSDP-44.2	Security Task Performance Evaluation	Rev. 2
		NSDP-45	Security Plan and Procedure Revision Process	Rev. 1
		NSDP-48	NPG Security Physical Fitness Test	Rev. 3
		NSDP-51	TVA Nuclear Power Group Access Services Psychological Screening Manual	Rev. 1
		NSDP-53	Security Severe Weather Response	Rev. 0
		SSI-7.2	Protected Area Patrol	Rev. 24
71151	Procedures	NSDP-47	Evaluation of Security Related Issues	Rev. 2
		NSDP-29	Tracking and Trending and NRC Performance Indicators	Rev. 9
71151	Condition Reports	1435249		
		1463233		
		1481146		
		1488078		
		1491906		
		1434135		
		1403944		
		1405846		
		1426570		
		1461494		
		1473982		
1481621				

71151	Corrective Actions	1435249	The Security UPS HVAC needs to be repaired or replaced	
		1463233	Negative Trend associated with isolation zone LIU	
		1481146	Improper testing procedure use	
		1488078	Negative trend associated with isolation zone XX	
		1491906	Evaluate the elimination of PM 063601107	
		1383679	Key Core changout not completed within the specified timeframe	
		1462938	ACP gatehouse lane duress button should activate entry turnstile lockdown	
		1405846	Track training pertaining to the elimination of Security Support to Maintenance	
		1426570	Officers failed to complete LMS course requirements prior to attending 2nd. Trimester T/Q	

71151	Corrective Actions	1461494	Time stoppage while performing Task 27C	
		1473982	TVA Form 41104 - Administrative Error	
		1481621	SSA1903 Remediation Forms not in Training Records reviewed. No Remediation form.	
	Corrective Actions Based on Inspection	1504377	Evaluate Key, Core and Lock Program	
		1504383	Use of Cover	
		1504384	Tester performed wrong test section	
		1504816	Evaluate Barrier Deployment	
		1505374	Declining attitude for initiating CRs	
		1505586	Evaluate the FAC pertaining to assessing Exit alarm	
		1505588	Moving the jacks in the isolation zone while conducting testing	
		1505589	Drop down Arm at the Sally port is in need of attention	
		1505591	Evaluate revising procedure for prioritization of Security Equipment	





