



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
475 ALLENDALE RD, STE 102
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

November 29, 2022

Brad Berryman
Senior Vice President and Chief Nuclear Officer
Susquehanna Nuclear, LLC
769 Salem Blvd., NUCSB3
Berwick, PA 18603

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 – SECURITY
BASELINE INSPECTION REPORT 05000387/2022403 AND 05000388/2022403

Dear Brad Berryman:

On October 27, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Susquehanna Steam Electric Station, Units 1 and 2 and discussed the results of this inspection with Douglas J. LaMarca, Director, Strategic Planning and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

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 Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Daniel L. Schroeder, Chief
Security, Emergency Preparedness and Incident
Response Branch
Division of Radiological Safety and Security

Docket Nos. 05000387 and 05000388
License Nos. NPF-14 and NPF-22

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 – SECURITY
 BASELINE INSPECTION REPORT 05000387/2022403 AND 05000388/2022403
 DATED NOVEMBER 29, 2022

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 05000387 and 05000388

License Numbers: NPF-14 and NPF-22

Report Numbers: 05000387/2022403 and 05000388/2022403

Enterprise Identifier: I-2022-403-0013

Licensee: Susquehanna Nuclear, LLC

Facility: Susquehanna Steam Electric Station, Units 1 and 2

Location: Berwick, PA

Inspection Dates: October 24, 2022 to October 27, 2022

Inspectors: K. Hussar, Senior Physical Security Inspector
S. McCarver, Physical Security Inspector
M. Ordoyne, Physical Security Inspector

Approved By: Daniel L. Schroeder, Chief
Security, Emergency Preparedness and Incident Response Branch
Division of Radiological Safety and Security

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a security baseline inspection at Susquehanna Steam Electric 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.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. 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

The inspectors evaluated the access control program through completion of the following inspection elements:

Access Control (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 8 Requirements (02.06 a - c, 02.07 a, 02.08 a - d)
 - Tier III: 1 Requirement (02.09)

71130.04 - Equipment Performance, Testing, and Maintenance

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

Equipment Performance, Testing, and Maintenance (1 Sample)

- (1)
 - Tier I: All requirements
 - Tier II: 9 requirements (02.09 a & b, 02.11 a - e, 02.12 a, 02.13 a)
 - Tier III: All requirements

71130.07 - Security Training

The inspectors evaluated the security training program through completion of the following procedure elements:

Security Training (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 8 Requirements (02.05 a - d, 02.06 a - b, 02.07 a, 02.08 a)
 - Tier III: 8 Requirements (02.10, 02.11 a, 02.12 a, 02.13 a - c, 02.14 a & c)

71130.09 - Security Plan Changes

The inspectors evaluated the security plan changes through completion of the following procedure elements:

Security Plan Changes (1 Sample)

- (1) The opportunity to apply this procedure was not available in accordance with IMC 0306. This sample was not available because the licensee did not conduct the activity covered by this IP. Specifically, the licensee has not initiated a physical security plan change in accordance with 10 CFR 50.54(p)(2) since the last performance of this IP.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

PP01: Protected Area Security Equipment Performance Index Sample (IP Section 02.17) (1 Sample)

Performance Indicator Data for Intrusion Detection System and CCTV was reviewed for the past 4 quarters.

- (1) September 1, 2021 through September 30, 2022

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On October 27, 2022, the inspectors presented the security baseline inspection results to Douglas J. LaMarca, Director, Strategic Planning and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.02	Corrective Action Documents	2021-01931		
		2021-06293		
		2021-15923		
		2021-16194		
		2021-16824		
		2022-05744		
		2022-07656		
		2022-08024		
		2022-08440		
		2022-08457		
	2022-09059			
	2022-12674			
	2022-14122			
Corrective Action Documents Resulting from Inspection	2022-15767			
Miscellaneous			2022 Security/Cyber Security Audit Report	
			Semi-Annual Security Controlled Key and Lock Core Inventory	10/06/2022
			2020 Security and Access Authorization Nuclear Oversight Internal Audit Report	
Procedures	NDAP-QA-0902		Safeguard Information Program and the Protection of Sensitive Unclassified Non Safeguards Information	Revision 25
	NS-SSP-002		Control, Issuance and Assignment of Security Controlled Locks and Keys	Revision 21
	NS-SSP-002		Control Issuance and Assignment of Security Controlled Locks and Keys	Revision 21
	SI-SO-002		Duties and Responsibilities of the Alarm Station Operators	Revision 56
	SI-SO-003		Duties and Responsibilities of the Access Control Officer	Revision 50
	SI-SO-006		Duties and Responsibilities of the South Gate House Search Officer	Revision 76
	SI-SO-008		Emergency Access and Egress	Revision 22

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		SI-SO-034	Vehicle Search	Revision 15
		SI-SO-036	Searches Conducted Outside the OCA	Revision 10
		SI-SO-037	Duties and Responsibilities of the Warehouse Search Officer	Revision 11
		SI-SO-038	Vital Area Access During Periods of Site-Specific Credible Threat to Include Insider Threat	Revision 2
71130.04	Corrective Action Documents	2021-16104 2021-16989 2022-02048		
	Procedures	NS-SSP-003	Tests, Checks, and Inspections of Security Systems and Equipment	Revision 58
		NS-SSP-004	Tests, Checks and Inspections of the Susquehanna Security Computer System	Revision 59
		OP-032-003	Security 480V AC System	Revision 27
		SI-SO-033	Weapons Maintenance	Revision 3
71130.07	Corrective Action Documents	2022-10200 2022-09565 2022-08193 2022-08188 2022-06492 2022-06492		
	Procedures		Weapons Familiarization Course of Fire	
		Lesson Plan 12	Perform Testing of Intrusion Detection Equipment and Special Purpose Detectors	Revision 8
		Lesson Plan 31AB	Handgun and Semi-Automatic Rifle Firearms Familiarization	Revision 0
		Lesson Plan HP007PF	Respiratory Protection	11/6/2013
		SI-ST-004	Nuclear Security On-The-Job Training Program for Alarm Station Operators; Security Officer Levels I and II and Response Team Leader	Revision 23
		Task 16	Determine Amount of Force Required to Prevent an Unauthorized Act	Revision 5
		Task 29	Annual Written Exam	