



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

October 25, 2021

Mr. Brad Berryman
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 05000387/2021401 AND 05000388/2021401

Dear Mr. Berryman:

On October 21, 2021, 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 Mr. Kevin Cimorelli, Site Vice President, 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,

Fred L. Bower, III, 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

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SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 – SECURITY
 BASELINE INSPECTION REPORT 05000387/2021401 AND 05000388/2021401
 DATED OCTOBER 25, 2021

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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: 05000387/2021401 and 05000388/2021401

Enterprise Identifier: I-2021-401-0093

Licensee: Susquehanna Nuclear, LLC

Facility: Susquehanna Steam Electric Station, Units 1 and 2

Location: Berwick, PA

Inspection Dates: October 18, 2021 to October 21, 2021

Inspectors: K. Hussar, Senior Physical Security Inspector
D. Caron, Senior Physical Security Inspector
S. McCarver, Physical Security Inspector

Approved By: Fred L. Bower, III, 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

Unless otherwise noted, baseline security inspections were conducted in accordance with the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter 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. Publicly available IPs are located at: <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), inspectors were directed to begin telework. In addition, regional baseline inspections were evaluated to determine if all or a portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

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: All Requirements
 - Tier III: All Requirements

71130.04 - Equipment Performance, Testing, and Maintenance

The inspectors evaluated the security equipment testing and maintenance program through completion of the following inspection elements:

Equipment Performance, Testing, and Maintenance (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 8 Requirements (02.09 a., b., 02.10, 02.11 a. - e.)
 - Tier III: 2 Requirements (02.14, 02.15)

71130.07 - Security Training

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

Security Training (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: All Requirements
 - Tier III: All Requirements

71130.09 - Security Plan Changes

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

Review Security Plan Changes (IP Section 02.01) (1 Sample)

- (1) The opportunity to apply this procedure was not available in accordance with Inspection Manual Chapter 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)

- (1) October 1, 2020 through September 30, 2021

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 21, 2021, the inspectors presented the security baseline inspection results to Mr. Kevin Cimorelli, Site Vice President, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.02	Procedures	NDAP-QA-0902	Safeguards Information Program and the Protection of Sensitive Unclassified Non-Safeguards Information	Revision 23
		NS-SO-004	Reporting/Alerting and Response to Alarms	Revision 13
		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 48
		SI-SO-004	Duties and Responsibilities of the Mobile Patrol Officer	Revision 27
		SI-SO-005	Duties and Responsibilities of Interior Patrol	Revision 27
		SI-SO-006	Duties and Responsibilities of the South Gate House Search Officer	Revision 74
		SI-SO-008	Emergency Access and Egress	Revision 22
		SI-SO-013	Personnel Access Control to Manholes/Handholes, Cable Chase Hatches, Panels and Penetrations	Revision 11
		SI-SO-036	Searches Conducted Outside the OCA	Revision 10
		SI-SO-038	Vital Area Access During Periods of Site Specific Credible Threat to Include Insider Threat	Revision 2
71130.04	Corrective Action Documents	CR-2020-11733		
		CR-2020-15327		
		CR-2020-15936		
		CR-2021-03697		
		CR-2021-09907		
	Engineering Changes	EC 2127066	Perform Site Acceptance Test for Fiber Optic Intrusion Detection System (IDS) Per TD-031-008	
	Procedures	MT-032-001	Security System Performance Testing	Revision 30
		MT-032-002	Security Control Center 0D575 UPS Calibration	Revision 5
MT-032-003		Security Control Center 0D585 UPS Calibration	Revision 3	
NS-SO-002		Security Communications	Revision 18	
NS-SO-004		Reporting/Alerting and Response to Alarms	Revision 13	
NS-SSP-003	Tests, Checks, and Inspections of Security Systems	Revision 56		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		NS-SSP-004	Tests, Checks and Inspections of the Susquehanna Security Computer System	Revision 58
		SI-SO-004	Duties and Responsibilities of the Mobile Patrol Officer	Revision 27
		SI-SO-005	Duties and Responsibilities of Interior Patrol	Revision 27
		SI-SO-006	Duties and Responsibilities of the South Gate House Search Officer	Revision 74
71130.07	Corrective Action Documents	CR-2020-10459 CR-2020-13813		
	Corrective Action Documents Resulting from Inspection	DI-2021-13011 CR-2021-15075		
	Miscellaneous		Susquehanna Nuclear, LLC Training and Qualification Plan	Revision 16
		LP 22	Comply With Physical Fitness Performance Requirements	Revision 5
	Procedures	SI-ST-001	Operation of the Weapons Firing Range	Revision 13
		SI-ST-002	Security and Safe Handling of Firearms, Ammunition, and Associated Equipment	Revision 38
		SI-ST-003	Nuclear Security Training Program	Revision 13