



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

July 2, 2020

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 05000387/2020401 AND 05000388/2020401

Dear Mr. Berryman:

On June 18, 2020, 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,

X /RA/

Signed by: Fred L. Bower
Fred L. Bower, III, Chief
Plant Support Branch
Division of Reactor Safety

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

Enclosure:
As stated

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 BASELINE INSPECTION REPORT 05000387/2020401 AND 05000388/2020401
 DATED JULY 2, 2020

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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: 05000387/2020401 and 05000388/2020401

Enterprise Identifier: I-2020-401-0017

Licensee: Susquehanna Nuclear, LLC

Facility: Susquehanna Steam Electric Station, Units 1 and 2

Location: Berwick, PA

Inspection Dates: June 8, 2020 to June 18, 2020

Inspectors: J. Bream, Senior Physical Security Inspector
K. Hussar, Physical Security Inspector
S. McCarver, Physical Security Inspector
J. Rey, Physical Security Inspector

Approved By: Fred L. Bower, III, 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 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. Publicly available IPs are located 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 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. 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), regional inspectors were directed to begin telework. The inspection documented below was completed through a combination of remote and on-site inspection.

SAFEGUARDS

71130.02 - Access Control

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

Access Control (1 Sample)

- (1) Tier I: All Requirements
Tier II: 7 Requirements (02.06.a - c, 02.08.a, b, d, e)
Tier III: 1 Requirement (02.09)

71130.05 - Protective Strategy Evaluation

The inspectors evaluated the licensee's protective strategy through completion of the following procedure elements:

Protective Strategy Evaluation (1 Sample)

- (1) Tier I: 20 elements (02.01.a - i, k; 02.02.a - f; 02.03.a; 02.04.b, d, e)
Tier II: 13 Requirements (02.06.a - i, m, n; 02.07.a, e)
Tier III: 3 Requirements (02.08; 02.09.a, b)

71130.09 - Security Plan Changes

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.

71130.14 - Review of Power Reactor Target Sets

The inspectors evaluated the licensee's Security Target Set Program through completion of the following procedure elements:

Review of Power Reactor Target Sets (1 Sample)

- (1) Requirements: (02.02 (a-e), 02.03, 02.04 (a-b), 02.05)

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) 3rd quarter 2019 through 1st quarter 2020

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On June 18, 2020, 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	Corrective Action Documents	2019-01927, 2019-11720, 2019-12774, 2020-02148, 2020-02242, 2020-02538			
		Procedures	NDAP-QA-0902	Safeguards Information Program and the Protection of Sensitive Unclassified Non-Safeguards information	Revision 20
			NS-SSP-002	Control, Issuance and Assignment Of Security Controlled Locks And Keys	Revision 20
			SI-SO-003	Duties and Responsibilities of The Access Control Officer	Revision 46
			SI-SO-008	Emergency Access And Egress	Revision 21
			SI-SO-015	Emergency Response In Support of Operations	Revision 8
			SI-SO-034	Duties and Responsibilities of The Vehicle Search Officer	Revision 13
			SI-SO-035	Duties and Responsibilities of The Escort Officer	Revision 9
			SI-SO-036	Searches Conducted Outside the OCA	Revision 9
			SI-SO-037	Duties and Responsibilities of The Warehouse Search Officer	Revision 8
71130.05	Corrective Action Documents	2019-02148, 2019-02165, 2019-04044, 2019-04802, 2019-08619, 2019-09361, 2019-11154, 2019-12273			
		Corrective Action Documents Resulting from Inspection	2020-08672, 2020-08679, 2020-08774		
			Engineering Evaluations	EC-032-1013	Blast Analysis for NRC Security Order
		EC-032-1022		Vehicle Barrier System Design	Revision 2
		EC-032-1036		Engineering Evaluation Of New PAP-6	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		EC-032-1037	Protective Area Pathway Timing Evaluation	
		EC-032-1039	Compilation of Information and Data Associated with New Security Towers	
	Miscellaneous		Nuclear Intrusion Response Plan	January 22, 2020
	Procedures	OP-142-001	Circulating Water System and Cooling Tower Operation	Revision 80
		SI-SO-020	Response to Indication of Potential Tampering, Vandalism, or Malicious Mischief	Revision 9
		SI-SO-031	Duties and Responsibilities of Mode Dependent Patrols	Revision 13
		SI-SO-031	Duties and Responsibilities Mode Dependent Patrols	Revision 13
		SI-SSM-002	Security Drills/Exercises and Evaluations	Revision 27
		SI-SSM-015	Nuclear Security's Defensive Strategy for The Protection Of Susquehanna Nuclear, LLC SSES	Revision 31
	SI-SSM-016	Protected and Vital Area Barriers	Revision 6	
71130.14	Corrective Action Documents	2017-12909, 2018-13947, 2019-07774		
	Engineering Evaluations	EC-032-1015	Target Sets	Revision 12
	Procedures	NDAP-00-0911	Development and Maintenance of Target Sets	Revision 3