



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

November 22, 2022

Mr. David P. Rhoades
Senior Vice President
Constellation Energy Generation, LLC
President and Chief Nuclear
Officer (CNO)
Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: QUAD CITIES NUCLEAR POWER STATION – SECURITY BASELINE
INSPECTION REPORT 05000254/2022401 AND 05000265/2022401

Dear Mr. David Rhoades:

On October 19, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Quad Cities Nuclear Power Station and discussed the results of this inspection with Mr. Dave Carrick, Operations Director 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,

A handwritten signature in black ink, appearing to read "S. Orth".

Signed by Orth, Steven
on 11/22/22

Steven K. Orth, Chief
Security, Emergency Preparedness,
and Incident Response Branch
Division of Radiological Safety and Security

Docket Nos. 05000254 and 05000265
License Nos. DPR-29 and DPR-30

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to David Rhoades from Steven K. Orth dated November 22, 2022.

SUBJECT: QUAD CITIES NUCLEAR POWER STATION – SECURITY BASELINE
INSPECTION REPORT 05000254/2022401 AND 05000265/2022401

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

Docket Numbers: 05000254 and 05000265

License Numbers: DPR-29 and DPR-30

Report Numbers: 05000254/2022401 and 05000265/2022401

Enterprise Identifier: I-2022-401-0035

Licensee: Constellation Nuclear

Facility: Quad Cities Nuclear Power Station

Location: Cordova, IL

Inspection Dates: July 18, 2022 to October 19, 2022

Inspectors: E. Bonano, Physical Security Inspector
J. Kutlesa, Emergency Preparedness Inspector

Approved By: Steven K. Orth, 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 Quad Cities Nuclear Power Station, 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: 02.06 (a - d); 02.07 (a); 02.08 (a, b, e)
 - Tier III: 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:

Equipment Performance, Testing, and Maintenance (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 02.09 (a, b); 02.10 (a); 02.11 (a)
 - Tier III: 02.15 (a, c)

71130.05 - Protective Strategy Evaluation

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

Protective Strategy Evaluation (2 Samples)

- (1)
 - Tier I: All Requirements
 - Tier II: 02.05 (a); 02.06 (a-l, n); 02.07 (a, b, c, e)
 - Tier III: 02.08; 02.09 (a, b); 02.10 (a)
- (2)
 - Observed annual Force-on-Force exercise on Aug 9, 2022.

71130.09 - Security Plan Changes

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

Security Plan Changes (1 Partial)

- (1) (Partial)
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 (PSP) change in accordance with 10 CFR 50.54(p)(2) since the last performance of this IP and PSP revision 17 remains current.

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) March 2021 through September 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 19, 2022, the inspectors presented the security baseline inspection results to Mr. Dave Carrick, Operations Director and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.02	Procedures	SY-AA-101-112	Exelon Security Search Processes	38
		SY-AA-101-117	Processing and Escorting of Personnel and Vehicles	34
		SY-AA-101-118	Control of Badges	10
		SY-AA-101-120	Control of Security Access Control Devices	9
		SY-AA-101-130	Security Responsibilities for Station Personnel	28
		SY-AA-1025-229	Acceptance of the Exelon Fitness for Duty and Unescorted Access Program Requirements for Contractors and Vendors	11
		SY-AA-103-500	Access Authorization Program	17
		SY-AA-103-511	Access Authorization In-Processing/Out-Processing of Personnel	26
		SY-AA-103-514	Site Authorization for Unescorted Access	22
		SY-QC-101-1009	Vehicle Key Control	2
		SY-QC-101-410	OCA Warehouse Search Activities	9
71130.04	Procedures	SY-AA-101-103	Observation and Inspection of Security Barriers	13
		SY-QC-101-115	Operation of Active Vehicle Barriers	4
		SY-QC-101-115-401	Operation of Power Operated Gates	3
71130.05	Calculations	10CFR73BE.QC	Protection Against Land Vehicle Bomb Blast	2
	Miscellaneous		Quad Cities Station Security Plans	17
			2022 LLEA Letters (MOU)	01/31/2022
		AR 04516088	NRC Observed Fully Integrated FOF Exercises	08/09/2022
		N/A	Quad Cities Subterranean Penetration Report	1
		NOSA-QDC-20-02 (AR# 4308330)	Security Programs Audit Report Quad Cities Station	January 21 to January 31, 2020
		NOSA-QDC-21-01 (AR# 4394294)	Security Programs Audit Report Quad Cities Station	January 19 to March 05, 2021
	Procedures	QCOA 0010-20	Security Event	48
		SY-AA-101	Physical Protection Program	10
		SY-AA-101-109	Response to Contingency Events	16

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		SY-AA-101-133-F-01	Supporting Law Enforcement Agency Response Capability	6
		SY-AA-150-1006-F-01	Responder Timeline Worksheet	2
		SY-AA-150-1006-F-02	Adversary Timeline Worksheet	2
		SY-AA-150-102	Security Drills and Exercises	0
		SY-QC-101-501	Quad Cities Station Contingency Plan	12
	Self-Assessments	AR# 04468792	Security Pre-NRC Self-Assessment for Access Control/Protective Strategy	05/12/2022