

# Report to Congress on the Security Inspection Program for Operating Commercial Power Reactors and Category I Fuel Cycle Facilities: Results and Status Update

**Annual Report for Calendar Year 2024** 

# AVAILABILITY OF REFERENCE MATERIALS IN NRC PUBLICATIONS

### **NRC Reference Material**

As of November 1999, you may electronically access NUREG-series publications and other NRC records at the NRC's Library at <a href="www.nrc.gov/reading-rm.html">www.nrc.gov/reading-rm.html</a>. Publicly released records include, to name a few, NUREG-series publications; <a href="Federal Register">Federal Register</a> notices; applicant, licensee, and vendor documents and correspondence; NRC correspondence and internal memoranda; bulletins and information notices; inspection and investigative reports; licensee event reports; and Commission papers and their attachments.

NRC publications in the NUREG series, NRC regulations, and Title 10, "Energy," in the *Code of Federal Regulations* may also be purchased from one of these two sources:

### 1. The Superintendent of Documents

U.S. Government Publishing Office Washington, DC 20402-0001 Internet: https://bookstore.gpo.gov/Telephone: (202) 512-1800

Fax: (202) 512-2104

### 2. The National Technical Information Service

5301 Shawnee Road Alexandria, VA 22312-0002 Internet: https://www.ntis.gov/

1-800-553-6847 or, locally, (703) 605-6000

A single copy of each NRC draft report for comment is available free, to the extent of supply, upon written request as follows:

### Address: U.S. Nuclear Regulatory Commission

Office of Administration

Program Management and Design

Service Branch

Washington, DC 20555-0001

E-mail: Reproduction.Resource@nrc.gov

Facsimile: (301) 415-2289

Some publications in the NUREG series that are posted at the NRC's Web site address <a href="www.nrc.gov/reading-rm/doc-collections/nuregs">www.nrc.gov/reading-rm/doc-collections/nuregs</a> are updated periodically and may differ from the last printed version. Although references to material found on a Web site bear the date the material was accessed, the material available on the date cited may subsequently be removed from the site.

### Non-NRC Reference Material

Documents available from public and special technical libraries include all open literature items, such as books, journal articles, transactions, *Federal Register* notices, Federal and State legislation, and congressional reports. Such documents as theses, dissertations, foreign reports and translations, and non-NRC conference proceedings may be purchased from their sponsoring organization.

Copies of industry codes and standards used in a substantive manner in the NRC regulatory process are maintained at—

### The NRC Technical Library

Two White Flint North 11545 Rockville Pike Rockville, MD 20852-2738

These standards are available in the library for reference use by the public. Codes and standards are usually copyrighted and may be purchased from the originating organization or, if they are American National Standards, from—

### **American National Standards Institute**

11 West 42nd Street New York, NY 10036-8002 Internet: https://www.ansi.org/

(212) 642-4900

Legally binding regulatory requirements are stated only in laws; NRC regulations; licenses, including technical specifications; or orders, not in NUREG-series publications. The views expressed in contractor prepared publications in this series are not necessarily those of the NRC.

The NUREG series comprises (1) technical and administrative reports and books prepared by the staff (NUREG-XXXX) or agency contractors (NUREG/CR-XXXX),

- (2) proceedings of conferences (NUREG/CP-XXXX),
- (3) reports resulting from international agreements (NUREG/IAXXXX),(4) brochures (NUREG/BR–XXXX), and
- (5) compilations of legal decisions and orders of the Commission and the Atomic and Safety Licensing Boards and of Directors' decisions under Section 2.206 of the NRC's regulations (NUREG-0750), (6) Knowledge Management prepared by NRC staff or agency contractors (NUREG/KM-XXXX).

**DISCLAIMER:** This report was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any employee, makes any warranty, expressed or implied, or assumes any legal liability or responsibility for any third party's use, or the results of such use, of any information, apparatus, product, or process disclosed in this publication, or represents that its use by such third party would not infringe privately owned rights.



# Report to Congress on the Security Inspection Program for Operating Commercial Power Reactors and Category I Fuel Cycle Facilities: Results and Status Update

**Annual Report for Calendar Year 2024** 

Manuscript Completed: September 2025

Date Published: September 2025

### **ABSTRACT**

This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954, as amended (42 U.S.C. §2210 d.(e)), which states the following:

Not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year.

Additionally, section 170D.a of the Atomic Energy Act of 1954, as amended (42 U.S.C. §2210 d.(a)), grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry storage independent spent fuel storage installation and those undergoing a restart due to the continued implementation of Title 10 of the *Code of Federal Regulations* Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year 2024. To aid in understanding how the NRC conducts inspections, this report also provides descriptions and programmatic status updates for relevant NRC programs, including the Reactor Oversight Process, security inspection programs for NPPs and CAT I fuel cycle facilities, and the force-on-force inspection program.

### PAPERWORK REDUCTION ACT STATEMENT

NUREG-1885, Revision 19, "Report to Congress on the Security Inspection Program for Commercial Power Reactors and Category I Fuel Cycle Facilities: Results and Status Update," does not contain information collection requirements and, therefore, is not subject to the requirements of the Paperwork Reduction Act of 1995 (44 U.S.C. §3501 et seq.).

### **PUBLIC PROTECTION NOTIFICATION**

The NRC may not conduct nor sponsor, and a person is not required to respond to a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

# **TABLE OF CONTENTS**

ΑI	BSTRACT	iii
LI	IST OF FIGURES	vii
LI	IST OF TABLES	vii
E	XECUTIVE SUMMARY	ix
1	SECURITY OVERSIGHT FOR COMMERCIAL NUCLEAR POWER PLANTS AND CATEGORY I FUEL CYCLE FACILITIES	1 4 4
2	CALENDAR YEAR 2024 SECURITY INSPECTION RESULTS	7 8
3	FORCE-ON-FORCE INSPECTIONS 3.1 Force-on-Force Program Description	11 11
4	CONCLUSION	15
Αl	PPENDIX – LIST OF ACRONYMS AND ABBREVIATIONS	17

# **LIST OF FIGURES**

Figure 1	Summary of Security Inspection Program Results CY 2024	ix
Figure 2	Number of Security Inspections and Findings (2015-2024)	x
Figure 3	Reactor Oversight Framework	2
Figure 4	Assessing Significance within the Reactor Oversight Program	3
Figure 5	Summary of CY 2024 Commercial Nuclear Power Plants Inspection Results	7
Figure 6	Armed Responder Takes a Defensive Position During a FOF Training Exercise	12
Figure 7	Total Force-on-Force Ineffective Exercises by Year	13
	LIST OF TABLES	
Table 1	Combined Security Inspection Results for CY 2024	ix
Table 2	Force-On-Force Inspection Results for CY 2024	x
Table 3	Summary of CY 2024 Security Baseline Inspections and Associated Findings for Commercial Nuclear Power Reactors by Inspection Procedure 71130, "Security"	7
Table 4	CY 2024 Security Baseline Inspections and Associated Findings for CAT I Fuel Cycle Facilities by IP	8
Table 5	Combined Security Inspection Results for CY 2024	9
Table 6	CY 2024 Force-on-Force Inspections Summary	12
Table 7	Force-On-Force Exercise Outcomes	13

### **EXECUTIVE SUMMARY**

### Calendar Year 2024 Security Inspection Results

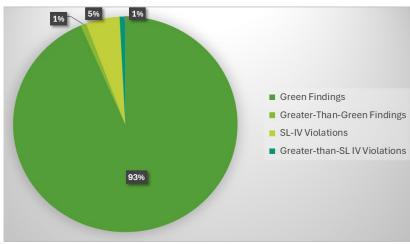


Figure 1 Summary of Security Inspection Program
Results CY 2024

In calendar year (CY) 2024, the U.S. Nuclear Regulatory Commission (NRC) performed a total of 180 security inspections at nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities to assess the security programs these licensees implement to protect and safeguard their sites. As shown in table 1, CY 2024 security inspections resulted in a total of 123 combined findings, a 28-percent decrease in the number of findings compared to CY 2023. Table 1 and

figure 1 also show that the majority of security inspection findings issued were of very low security significance (i.e., Green findings and Severity Level (SL) IV violations); two findings resulted in escalated enforcement action (one greater-than-Green finding and one greater-than-SL IV finding).

Table 1 Combined Security Inspection Results for CY 2024

180	Total number of security inspections conducted
123	Total number of inspection findings
115	Total number of Green findings
1	Total number of greater-than-Green findings
6	Total number of SL IV violations
1	Total number of greater-than-SL IV violations

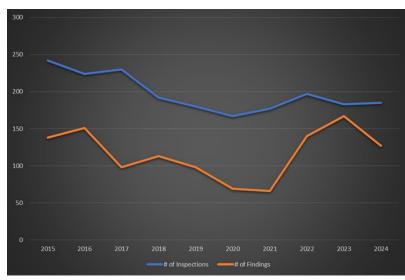


Figure 2 Number of Security Inspections and Findings (2015 – 2024)

As shown in figure 2, the number of security inspections trended downward from 2017 to 2020 and began increasing gradually from 2021 to 2022. The number of inspection findings began rising in 2021 and peaked in 2023. The rise in the number of security inspections and the number of security findings is due, in part, to incorporation of cybersecurity baseline inspections into the Reactor Oversight Process (ROP) beginning in CY 2022.

Table 2 summarizes the results of the force-on-force (FOF) inspection program for commercial NPPs, and CAT I

fuel cycle facilities in CY 2024. The NRC conducted a total of 19 FOF inspections consisting of 38 FOF exercises conducted during CY 2024, including one FOF exercise at a CAT I fuel cycle facility.

Table 2 Force-On-Force Inspection Results for CY 2024

19	Total number of FOF inspections conducted
34	Total number of effective exercises
4	Total number of indeterminate exercises
0	Total number of marginal exercises
0	Total number of ineffective exercises

### Calendar Year 2025: Key Focus Areas

The NRC continues monitoring for potential threats to NPPs and CAT I fuel cycle facilities, communicating time-sensitive information to licensees, and assessing the need for any changes to the design-basis threats (DBTs) applicable to NRC-licensed facilities. In response to the Accelerating Deployment of Versatile Advanced Nuclear for Clean Energy (ADVANCE) Act, enacted in July 2024, the NRC has several new initiatives underway and will continue to implement the Act's requirements, including completing appropriate revisions to agency regulations or guidance and reporting progress to Congress. Consistent with the ADVANCE Act, the NRC will continue to seek opportunities to risk-inform and modernize its security oversight and inspection programs.

The NRC staff is currently revising FOF inspections consistent with Commission direction in SRM-COMSECY-19-0006, "Staff Requirements—COMSECY-19-0006—Revised Security Inspection Program Framework (Option 3) in Response to SRM-17-0100," dated May 17, 2024 (Agencywide Documents Access and Management System, Accession No. ML24138A045). As part of the Commission-approved approach, the agency will revise the FOF inspection program from two NRC-conducted exercises to one, reducing the required direct inspection hours and level of inspection effort while maintaining an appropriate level of security oversight through an

enhanced inspection of licensee-conducted FOF exercises. Further, these revisions will eliminate redundancies with other baseline physical security inspections and will also include revised inspection objectives to align with Commission direction to place a greater focus on mission planning and exercise evaluation.

The NRC will continue to support the restart of power operations at formerly decommissioned NPPs to guarantee a safe return to operational status, evaluate the effectiveness of plant security programs under NRC regulations, and continue ongoing oversight to assess licensee performance. The NRC will also continue to evaluate the cybersecurity inspection program and recently implemented efficiencies through the completion of its third biennial ROP inspection cycle in CY 2026.

# 1 SECURITY OVERSIGHT FOR COMMERCIAL NUCLEAR POWER PLANTS AND CATEGORY I FUEL CYCLE FACILITIES

### 1.1 NRC Security Inspections of Licensed Facilities

The NRC protects public health and safety and advances the Nation's common defense and security by enabling the safe and secure use and deployment of civilian nuclear energy technologies and radioactive materials through efficient and reliable licensing, oversight, and regulation for the benefit of society and the environment. Consistent with its security mission, the NRC requires that NPPs and CAT I fuel cycle facilities design, establish, and maintain security programs that provide reasonable assurance of adequate protection against the radiological sabotage DBT. CAT I fuel cycle facilities must protect against an additional DBT of theft or diversion of a formula quantity of strategic special nuclear material (SSNM). These DBTs comprise a set of adversary characteristics, equipment, attack mechanisms, and tactics that NPPs and CAT I fuel cycle facilities must be able to defend against.

To verify that NPPs and CAT I fuel cycle facilities can defend against the applicable DBTs, the NRC regularly performs security oversight activities to assess licensee performance and verify compliance with security requirements. These oversight activities include monitoring daily licensee activities and performing routine inspections that closely focus on a cross section of areas that the agency has determined have the greatest impact on security. These areas include personnel access authorization; access control; equipment performance, testing, and maintenance; protective strategy evaluation and performance evaluation program; protection of safeguards information; security training; fitness-for-duty; material control and accounting; transportation security; cybersecurity; and target set identification.

The NRC conducts performance-based security response FOF inspections at NPPs and CAT I fuel cycle facilities. The NRC uses FOF inspections to evaluate the effectiveness of a licensee's protective strategy through an integrated response exercise during which the licensee's security force executes its protective strategy in response to a simulated attack by an opposing force with the characteristics and attributes of the DBT. These simulated attack scenarios are designed to probe and challenge potential weaknesses in the sites' protective strategies. Section 4 of this report contains additional information on these FOF inspections.

The NRC's security inspections, including FOF inspections, verify that security programs at NPPs and CAT I fuel cycle facilities have been adequately designed, implemented, and maintained in a manner consistent with regulatory requirements, and that these security programs are effectively integrated to adequately protect against the DBTs.

SSNM is defined in Title 10 of the *Code of Federal Regulations* 73.2 as uranium-235 (contained in uranium enriched to 20 percent or more in the uranium-235 isotope), uranium-233, or plutonium.

1

While NPPs and CAT I fuel cycle facilities licensed by the NRC must provide reasonable assurance of adequate protection against the applicable DBT and are subject to periodic baseline security inspections, including FOF inspections, the sections below detail the differences between the NRC's oversight and enforcement process framework for these two types of facilities.

### 1.2 Reactor Oversight Process Framework

The ROP is the NRC's process for inspecting, measuring, and assessing the safety and security performance of NPPs. The ROP encompasses three strategic performance areas and measures NPP performance in seven specific "cornerstones of safety," as shown in figure 3. Performance is also measured across three cross-cutting areas, which can affect each of the cornerstones across all the strategic performance areas. Additional information on the ROP can be found on the NRC's public website at <a href="https://www.nrc.gov/reactors/operating/oversight/rop-description.html">https://www.nrc.gov/reactors/operating/oversight/rop-description.html</a>.

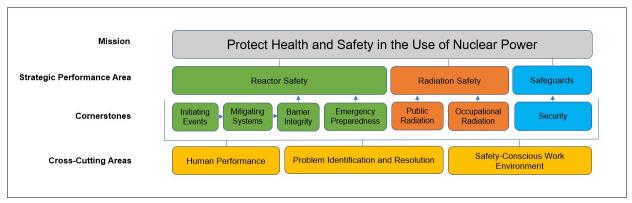


Figure 3 Reactor Oversight Framework

The NRC evaluates NPP performance under the ROP by analyzing two inputs: performance indicators (PIs) reported by NRC licensees and inspection findings identified through the NRC's inspection programs.

### Performance Indicators

The NRC established Pls to quantitatively measure licensee performance in risk-significant areas of each cornerstone in the ROP. Each Pl has objective criteria and thresholds for measuring acceptable performance using a color-coded system. Licensees submit Pl data quarterly, and the NRC regularly conducts inspections to verify the accuracy and completeness of the submittals. Publicly available Pl data are posted at <a href="https://www.nrc.gov/reactors/operating/oversight/pi-summary.html">https://www.nrc.gov/reactors/operating/oversight/pi-summary.html</a>.

The NRC established one PI under the security cornerstone that measures the operability of intrusion detection systems at NPPs. This PI provides insight into the effectiveness of the licensees' maintenance of these systems and describes a method of monitoring security equipment degradation that could adversely impact reliability.

All NPP licensees maintained a Green security PI for CY 2024. Specific details about the security PI are withheld from public disclosure to ensure that security-related information is not made available to a potential adversary.

### **Inspection Findings**

Findings identified during NRC security inspections are evaluated under a security significance determination process and assigned a significance level using a color-coded system similar to Pls. These findings can range in significance from Green to Red, as described below and illustrated in figure 4.

- **Green** indicates a finding of very low safety or security significance.
- White indicates a finding of low-to-moderate safety or security significance.
- Yellow indicates a finding of substantial safety or security significance.
- **Red** indicates a finding of high safety or security significance.

Security findings determined to be of very low security significance (i.e., Green) yield no need for further regulatory action after the performance deficiencies have been corrected. For those findings that have a greater potential for adversely impacting security at an NPP (i.e., White, Yellow, Red), the NRC will apply additional regulatory action as determined by the NRC's action matrix.<sup>2</sup>

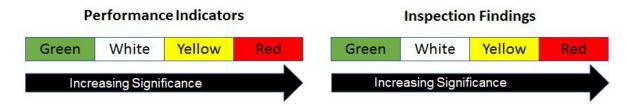


Figure 4 Assessing Significance within the Reactor Oversight Program

### **Action Matrix**

The NRC uses information from inspection findings and PIs to make objective conclusions about the licensee's safety and security performance. Information on security findings is identified in the publicly available action matrix summary as having either very low significance (i.e., Green) or greater-than-Green significance (i.e., White, Yellow, or Red). The NRC does not disclose the specific significance of greater-than-Green findings to ensure that information regarding NPP security vulnerabilities is not provided to possible adversaries. For those findings that have a greater potential for adversely impacting security at an NPP (i.e., White, Yellow, Red), the NRC will determine the appropriate level of agency response and apply additional regulatory action as determined by the NRC's action matrix. The action matrix is available on the NRC's public website at <a href="https://www.nrc.gov/reactors/operating/oversight/actionmatrix-summary.html#am\_summary.html#a

Further, depending on the number and significance of inspection findings and PIs at an NPP, the NRC's response may include supplemental inspections, as well as a range of other appropriate regulatory actions up to and including orders to shut down the NPP. Information on

<sup>&</sup>lt;sup>2</sup> The NRC defines a performance deficiency as the licensee's failure to satisfy one or more regulatory requirements or self-imposed standards where such failure was reasonably foreseeable and preventable.

current NPP performance is provided on the NRC's public website at https://www.nrc.gov/reactors/operating/oversight/plant-by-plant-summaries.html.

### 1.3 Oversight Process Framework for Category I Fuel Cycle Facilities

The NRC maintains regulatory oversight of safeguards<sup>3</sup> and security programs at two CAT I fuel cycle facilities: BWX Technologies, Inc., in Lynchburg, Virginia, and Nuclear Fuel Services, Inc., in Erwin, Tennessee. Each CAT I fuel cycle facility is licensed to use and process a formula quantity of SSNM. The SSNM must be protected against acts of radiological sabotage as well as theft and diversion. The NRC conducts periodic security inspections at these facilities to ensure that these licensees maintain adequate protection of their sites.

The primary objectives of the NRC's CAT I fuel cycle facility safeguards and security oversight program are to determine if the fuel cycle facilities are operating securely and pursuant to the NRC's regulatory requirements and orders, detect indications of declining security performance, investigate specific security events and vulnerabilities, and identify generic security issues. The NRC inspects physical security areas related to highly enriched uranium annually, biennially, or triennially using established inspection procedures (IPs). The results of these inspections contribute to an overall assessment of licensee performance. Inspection reports for CAT I fuel cycle facilities can be found on the NRC's public website at <a href="https://www.nrc.gov/info-finder/fc/index.html#facility-list">https://www.nrc.gov/info-finder/fc/index.html#facility-list</a>. As with security violation information for NPPs, detailed information on security violations at CAT I fuel cycle facilities is withheld from public disclosure.

Since CAT I fuel cycle facilities are not subject to the ROP, performance issues identified at these sites are not assigned a color-coded finding. All violations identified at CAT I fuel cycle facilities are assessed and assigned an SL in accordance with the NRC Enforcement Policy.

The NRC has not established PIs for CAT I fuel cycle facility licensees.

### 1.4 NRC Enforcement Policy

The NRC's enforcement authority derives from the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974, as amended. The enforcement program has two goals: (1) deter noncompliance by emphasizing the importance of adherence to NRC requirements, and (2) encourage prompt identification and prompt comprehensive correction of violations of NRC requirements. The NRC's Enforcement Policy can be found on the NRC's public website at <a href="https://www.nrc.gov/about-nrc/regulatory/enforcement/enforce-pol.html">https://www.nrc.gov/about-nrc/regulatory/enforcement/enforce-pol.html</a>.

When inspections and investigations identify violations of NRC requirements, the NRC uses three primary enforcement sanctions: notices of violation; civil penalties; and orders to modify, suspend, or revoke a license. Notices of violation and civil penalties are issued based on violations. The NRC may issue orders in response to violations or because of a public health and safety or common defense and security issue. The NRC's enforcement program applies to both NPP and CAT I fuel cycle facility licensees.

<sup>&</sup>quot;Safeguards" refers to the use of material control and accounting programs to verify that all special nuclear material is properly controlled and accounted for. It also refers to the physical protection (or physical security) equipment and security forces.

Under its traditional enforcement process, the NRC assesses significance by assigning an SL to all violations. The traditional enforcement process has established four SLs that demonstrate the relative importance of a violation:

- **SL I** violations are those that resulted in, or could have resulted in, serious safety or security consequences.
- **SL II** violations are those that resulted in, or could have resulted in, significant safety or security consequences.
- **SL III** violations are those that resulted in, or could have resulted in, moderate safety or security consequences.
- **SL IV** violations are those that are less serious but are of more-than-minor concern, that resulted in no or relatively inappreciable potential safety or security consequences.

Traditional enforcement is also used at NPPs to address certain aspects of violations (e.g., willfulness and individual actions) that cannot be addressed solely through the ROP. These violations include those that resulted in actual safety or security consequences, affected the ability of the NRC to perform its regulatory oversight function, or involved willfulness.

### 1.5 <u>Nuclear Power Plants Reauthorization and Restart Support</u>

The NRC is coordinating timely, efficient reviews and responses to support licensing actions, exemptions, technical issues, and inspections required for licensed facilities seeking to resume commercial operation. On September 28, 2023, Holtec Palisades, LLC, the licensee for Palisades Nuclear Plant, submitted a letter (ML23271A140) to the NRC requesting reauthorization of power operations. Similarly, on September 20, 2024, Constellation Energy Corporation, the licensee for the Three Mile Island Nuclear Station, expressed interest in returning to an operational status and changing the licensed name to the Crane Clean Energy Center (ML24310A104). In January 2025, NextEra Energy Duane Arnold, LLC, the licensee for the Duane Arnold Energy Center, expressed interest in returning the plant to an operational status and resuming commercial operation. In preparation for required physical security inspections, the NRC revised and issued inspection procedures with an effective date of January 1, 2025, to evaluate and assess the licensees' operational readiness.

### 1.6 ADVANCE Act: New Initiatives for Security

The ADVANCE Act, signed into law in July 2024, requires the NRC to take a number of actions, particularly in the areas of licensing new reactors and fuels, while maintaining the agency's core safety and security mission. The ADVANCE Act outlines requirements for a wide range of NRC activities, including supporting the recruitment and retention of the agency workforce; adding flexibility in the agency's budgeting process; enhancing the regulatory framework for advanced reactors and fusion technology; and requiring initiatives to support the agency's efficient, timely, and predictable reviews of license applications.

Consistent with section 507, "Improving Oversight and Inspection Programs," of the ADVANCE Act, the NRC has identified several initiatives specific to physical and cybersecurity oversight and inspections needed to improve oversight and inspections, eliminate redundancies, and

risk-inform inspection and oversight processes. The NRC will provide its review of existing processes and reports to Congress in CY 2025, in accordance with the timelines provided in the ADVANCE Act.

### 2 CALENDAR YEAR 2024 SECURITY INSPECTION RESULTS

### 2.1 <u>Calendar Year 2024 Commercial Nuclear Power Reactor Inspection Results</u>

Figure 5 summarizes the results of the security baseline inspection program for NPPs in CY 2024. As indicated in this figure, 119 out of 121 security findings at NPPs issued in CY 2024 were of very low security significance (i.e., Green or SL IV violations) and two findings resulted in escalated enforcement action (one greater-than-Green finding and one greater-than-SL IV finding). These findings were issued across 170 total inspections.

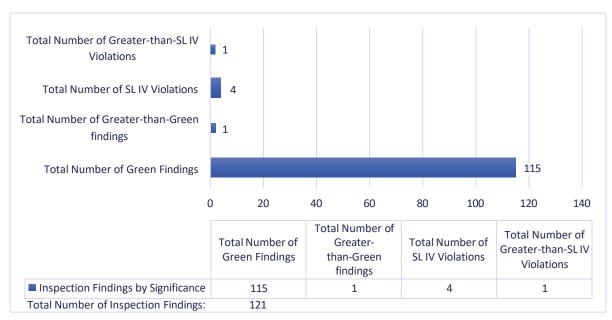


Figure 5 Summary of CY 2024 Commercial Nuclear Power Plants Inspection Results

Table 3 summarizes the number of findings related to each security IP for NPPs. The areas with the most inspection findings within the security baseline inspection program are cybersecurity, access control, FOF, and equipment, performance and maintenance. Cybersecurity inspections have consistently resulted in the highest number of security inspection findings since the baseline cybersecurity inspection program began in CY 2022.

Table 3 Summary of CY 2024 Security Baseline Inspections and Associated Findings for Commercial Nuclear Power Reactors by Inspection Procedure 71130, "Security"

IP Section	Number of IP Completions in CY 2024	Number of Findings in CY 2024
01—Access Authorization	22	7
02—Access Control	57	13
03—Contingency Response—Force-on-Force Inspections	19	10
04—Equipment Performance, Testing, and Maintenance	34	10

05—Protective Strategy Evaluation and Performance	23	6
Evaluation Program	20	ŭ
06—Protection of Safeguards Information	1	1
07—Security Training	23	0
08—Fitness-for-Duty Program	7	6
09—Security Plan Changes	38	5
10—Cybersecurity	27	56
11—Materials Control and Accounting	19	3
14—Review of Power Reactor Target Sets	15	4
TOTAL:	285 <sup>4</sup>	121

### 2.2 Calendar Year 2024 Inspection Results for Category I Fuel Cycle Facilities

Two violations were issued in CY 2024 at CAT I fuel cycle facilities across a total of 10 inspections conducted. Both violations were of very low security significance (i.e., SL IV violations). There were no violations greater than SL IV.

Table 4 summarizes the associated findings related to each security IP for CAT I fuel cycle facilities. The area with the most inspection findings within the security core inspection program is equipment performance, testing, and maintenance. This is consistent with security inspection results in CY 2022 and CY 2023.

Table 4 CY 2024 Security Baseline Inspections and Associated Findings for CAT I Fuel Cycle Facilities by IP

	Number of IP	Number of
	Completions at CAT I Fuel	CAT I Fuel Cycle
lps	Cycle	Violations
	Facilities in	in CY
	CY 2024	2024
81700.01—SSNM Security Controls	2	0
81700.02—Access Control Measures	1	0
85303.02—Material Control & Accounting	3	0
81700.04—Equipment Performance, Testing and	2	2
Maintenance		2
81700.05—Protective Strategy Evaluation	0	0
81700.06—Licensee-Conducted FOF	1	0
81700.07—Security Training	0	0
81700.08—Fitness-for-Duty Program	0	0
81700.09—Security Measures	0	0
81700.10—Protection of Safeguards Information	0	0
81700.11—Annual Observation of Licensee-Conducted	1	0
FOF	ı	U
TOTAL:	10	2

More than one baseline IP is often completed during a security inspection at an NPP. Therefore, the total number of IP completions is higher than the total number of inspections documented in table 3.

8

\_

## 2.3 Calendar Year 2024 Overall Security Inspection Results

Table 5 summarizes the combined number of security inspections and findings for NPPs and CAT I fuel cycle facilities in CY 2024.

Table 5 Combined Security Inspection Results for CY 2024

170	Total number of security inspections conducted at commercial NPPs
10	Total number of security inspections conducted at CAT I fuel cycle
10	facilities
180	Total number of security inspections
115	Total number of Green findings at NPPs
1	Total number of greater-than-Green findings at NPPs
4	Total number of SL IV violations at NPPs
1	Total number of greater-than-SL IV violations at NPPs
2	Total number of SL IV violations at CAT I fuel cycle facilities
0	Total number of greater-than-SL IV violations at CAT I fuel cycle facilities
123	Total number of inspection findings

### 3 FORCE-ON-FORCE INSPECTIONS

### 3.1 Force-On-Force Program Description

An FOF inspection is a two-phased, performance-based inspection that is designed to verify and assess a licensee's ability to defend against the applicable DBTs of radiological sabotage, theft or diversion of SSNM, or both, through implementation of its protective strategy. The NRC conducts these FOF inspections at each NPP and CAT I fuel cycle facility on a triennial cycle.

During the first phase of the inspection, NRC security inspectors conduct briefings and site walkdowns to assess the number of defenders, their protective positions, and the licensee's overall protective strategy. The inspectors also conduct tabletop drills on a mock-up of the facility to evaluate the effectiveness of the licensee's security strategy against a series of attack scenarios. The role of local, State, and Federal law enforcement and emergency planning officials is also discussed in the tabletop drills. Using information obtained from the tabletop drills, briefings, site walkdowns, security procedures, and previous inspection reports, the NRC inspection team, with technical support from active-duty members of the U.S. Special Operations Command, develops attack scenarios designed to probe and challenge potential weaknesses in the site's protective strategy.

During the second phase of the inspection, a mock adversary force carries out the attack scenarios developed by the NRC inspection team during a performance-based exercise. At NPPs, the mock adversary force attempts to reach and simulate destroying enough safety equipment to set in motion an event that would damage the reactor's core or spent fuel pool and potentially cause a release of radiation to the environment. At CAT I fuel cycle facilities, a similar process is used to assess the effectiveness of a licensee's protective strategy capabilities relative to the DBTs of radiological sabotage and theft or diversion of SSNM. The security force at each facility attempts to interdict the mock adversary force and prevent it from achieving radiological sabotage or the theft or diversion of SSNM. During these exercises, the licensee maintains both its normal security force, which is not involved in the exercise, and a second security force that actively participates in the exercise. The use of weapons and explosives is simulated using electronic equipment and other means.

The purpose of these exercises is to identify any significant deficiencies in the protective strategy. Any such deficiencies are promptly reviewed, and compensatory measures are established when appropriate while the licensee evaluates and implements necessary long-term corrective actions. These exercises provide the most realistic evaluation of the licensee's protective strategy, short of an actual attack.

### 3.2 Force-On-Force Inspections in Calendar Year 2024

CY 2024 marked the second year of the seventh triennial FOF inspection cycle. The NRC staff conducted a total of 18 NRC-evaluated FOF inspections at NPPs during CY 2024. The NRC completed these inspections in accordance with IP 71130.03, "Contingency Response—Force-on-Force Testing" (non-public).

One NRC-evaluated FOF inspection was conducted at a CAT I fuel cycle facility in CY 2024. This inspection was completed in accordance with IP 96001, "NRC Force-on-Force Inspections at Category 1 Fuel Cycle Facilities" (non-public).

### 3.3 Force-On-Force Exercise Results



Figure 6 Armed Responder Takes a Defensive Position During a FOF Training Exercise

The NRC categorizes FOF exercise results as (1) effective, (2) indeterminate, (3) marginal, or (4) ineffective. An effective exercise is one in which the licensee demonstrates effective implementation of its protective strategy in accordance with security plans approved by the NRC and related implementing procedures, regulatory requirements, or other Commission requirements, such as orders or confirmatory action letters. An indeterminate exercise is one in which the results were significantly skewed by an anomaly or anomalies, resulting in the inability to determine the outcome of the exercise (e.g., site responders neutralize the adversaries by using procedures or practices unanticipated by the design of the site protective strategy or in conflict with the training of security personnel to implement the site protective strategy, or significant exercise control failures were experienced). A marginal exercise is one in which the licensee's performance prevented the loss of a complete target set; however, the site's response force did not neutralize the adversary before the adversary simulated the loss of a subset of target set elements. An ineffective exercise is one in which the licensee did

not demonstrate effective implementation of its protective strategy in accordance with plans approved by the NRC and related implementation procedures, regulatory requirements, or other Commission requirements, such as orders or confirmatory action letters.

Table 6 summarizes the 19 FOF inspections conducted in CY 2024.

Table 6 CY 2024 Force-On-Force Inspections Summary

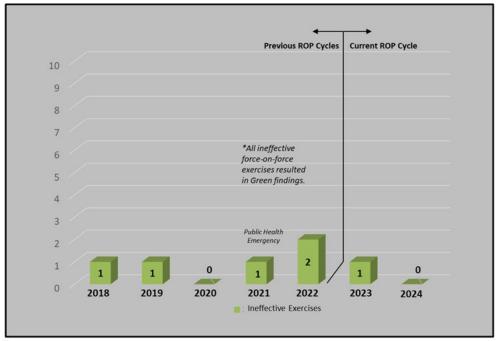
Total number of FOF inspections conducted at NPPs (two exercises per inspection) using IP 71130.03	18
Total number of FOF inspections conducted at a CAT I fuel cycle facility (two exercises per inspection) using IP 96001	1

Table 7 lists the outcomes for FOF exercises conducted in CY 2024.

**Table 7 Force-On-Force Exercise Outcomes** 

Total number of effective exercises	34
Total number of indeterminate exercises	4
Total number of marginal exercises	0
Total number of ineffective exercises	0
Total number of canceled exercises	0

Figure 7 shows the number of ineffective FOF exercises per year from 2018 to 2024. The number of ineffective FOF exercises has remained stable at between zero and two per year.



Ineffective Exercise – an exercise where the licensee did not demonstrate effective implementation of its protective strategy in accordance with plans approved by the NRC and related implementation procedures, regulatory requirements, or other Commission requirements, such as orders or confirmatory action letters affecting protective strategy for the conduct of the FOF exercise.

Figure 7 Total Force-On-Force Ineffective Exercises by Year

### 4 CONCLUSION

The NRC remains focused on its mission and will continue to leverage available data and risk insights to inform the conduct of inspection and oversight activities. The NRC requires licensed facilities to employ and demonstrate effective defense-in-depth strategies to protect against the theft and diversion of radiological materials as well as radiological sabotage, including well-trained security forces, physical barriers, intrusion detection systems, surveillance systems, and reactor controls.

Consistent with ROP objectives, the NRC will continue to assess for sustained physical security and cybersecurity performance at NRC-licensed facilities and facilities undergoing restart. The NRC's security oversight programs continue to identify vulnerabilities or deficiencies in site protective strategies and security programs and act promptly when these are identified. In addition, baseline inspections, including FOF and cybersecurity inspections, continue to provide performance-based insights regarding licensee readiness to protect their sites. In these ways, the NRC security inspection program ensures that NRC licensees remain aware of and prepared to protect against a wide range of threats.

Lastly, in accordance with the ADVANCE Act, the NRC staff will also continue to review and assess existing processes within the security inspection program to ensure that the agency's regulatory activities are conducted efficiently and provide an objective means of evaluating security-related findings to promote the common defense and security.

Additional information on the NRC's security oversight programs can be found on the agency's public website at <a href="https://www.nrc.gov/security.html">https://www.nrc.gov/security.html</a>

## **APPENDIX – LIST OF ACRONYMS AND ABBREVIATIONS**

ADVANCE Act Accelerating Deployment of Versatile Advanced Nuclear for Clean Energy

Act

CAT I Category I

CY calendar year

DBT design-basis threat

FOF force-on-force

IP inspection procedure NPP nuclear power plant

NPP nuclear power plant
NRC U.S. Nuclear Regulatory Commission

PI performance indicator

ROP Reactor Oversight Process

SL severity level

SSNM strategic special nuclear material

This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program	NRC FORM 335 (12-2010) NRCMD 3.7  BIBLIOGRAPHIC DATA SHEET (See instructions on the reverse)	1. REPORT NUMBER (Assigned by NRC, Add Vol., Supp., Rev., and Addendum Numbers, if any.)  NUREG-1885  Revision 19
Report to Congress on the Security Inspection Program for Operating Commercial Power Reactors and Category   Fuel Cycle Facilities: Results and Status Update    8. AUTHORIS)  Daryl Johnson, NSIR  8. PERFORMING ORGANIZATION - NAME AND ADDRESS (If NRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address; if Contractor, provide name and mailing address; if Contractor, provide name and mailing address; if Incident Response U. S. Nuclear Regulatory Commission and mailing address; if Contractor, provide name and mailing address; if Incident Response U. S. Nuclear Regulatory Commission and mailing address; if Contractor, provide name and mailing address; if Incident Response U. S. Nuclear Regulatory Commission Washington, D. C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission and mailing address; if Incident Response U. S. Deptementary Notes  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or item) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S. C. §2210 d(g)), as amended, which states are provided to the Energy Act of 1954 (42 U.S. C. §2210 d(g)), as amended, which states are provided to Energy Act of 1954 (42 U.S. C. §2210 d(g)), as a mended, and any relevant provided to the Committee on		
Power Reactors and Category   Fuel Cycle Facilities: Results and Status Update  September 2025  4. FIN OR GRANT NUMBER  6. TYPE OF REPORT TECHNICAL  7. PERIOD COVERED (Inclusive Dates) CY 2024  8. PERFORMING ORGANIZATION. NAME AND ADDRESS (If NRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.) Division of Security Operations Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Office of Richard (Inclusive Dates) Office of Richard (Inclusive Dates) U.S. Nuclear Regulatory Commission Office of Richard (Inclusive Dates) Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D, e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Expresentatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D, a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grain the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licenseed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPS) and Category I (CAT 1) fleet (cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities with respect to NPPs, the scope of this report underly reported on of Plants and Materials. This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.		3. DATE REPORT PUBLISHED
Annual Report for Calendar Year 2024  4. FIN OR GRANT NUMBER  5. AUTHORIES)  Daryl Johnson, NSIR  6. TYPE OF REPORT  TECHNICAL  7. PERIOD COVERED (Inclusive Dates)  CY 2024  8. PERFORMING ORGANIZATION - NAME AND ADDRESS (IF NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address; if contractor, provide name and mailing address; if political provides and mailing address; if contractor, provide name and mailing address; if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission  Washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (IF NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)  11. ASSTRACT (200 exists or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D. a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(g)), as amended, which states in the security response evaluation results for each security fee provides evaluation results for each security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities must undergo these security evaluations. This report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to th		MONTH YEAR
5. AUTHOR(S) Daryl Johnson, NSIR  6. TYPE OF REPORT TECHNICAL 7. PERIOD COVERED (Inclusive Dates) CY 2024  6. PERFORMING ORGANIZATION - NAME AND ADDRESS (IFNRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address, if contractor, provide name and mailing address, if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission Washington, D. C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less offen than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year. "Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licenseed facilities with studiors fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities must undergo these security evaluations. The NRC is reporting the security response evaluation respect to NPPs, the scope of this report includes those undergo		September 2025
S. AUTHOR(S) Daryl Johnson, NSIR  8. PERFORMING ORGANIZATION - NAME AND ADDRESS (If NRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address; if Division of Security Operations Office of Nuclear Security & Incident Response U. S. Nuclear Regulatory Commission Washington, D. C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or leas) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C, §2210 d(e)), as amended, which states, 'not less offen than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year. Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C, §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation conducted and only relevant content and the part of the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities must undergo these security evaluations. The NRC is reporting the security response evaluation or established in the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to th	Affilial Report for Caleridal Year 2024	4 FIN OR GRANT NUMBER
Daryl Johnson, NSIR  TECHNICAL  7. PERIOD COVERED (Inclusive Dietes) CY 2024  8. PERFORMING ORGANIZATION - NAME AND ADDRESS (If NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address, if contractor, provide name and provide name and mailing address, including name and mailing address, including name as above.  9. SPONDSORING ROGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensee facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing d		
8. PERFORMING ORGANIZATION - NAME AND ADDRESS (IT NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.)  Division of Security Operations Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or lass) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) full cycle facilities given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installati	5. AUTHOR(S)	6. TYPE OF REPORT
8. PERFORMING ORGANIZATION - NAME AND ADDRESS (IF NRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.) Division of Security Operations Office of Nuclear Security & Incident Response U. S. Nuclear Regulatory Commission Washington, D. C. 20555-0001 9. SPONSORING ORGANIZATION - NAME AND ADDRESS (IF NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fillfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U. S. C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D a of the Atomic Energy Act of 1954 (42 U. S. C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview	Daryl Johnson, NSIR	TECHNICAL
8. PERFORMING ORGANIZATION - NAME AND ADDRESS (IF NRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.) Division of Security Operations Office of Nuclear Security & Incident Response U. S. Nuclear Regulatory Commission Washington, D. C. 20555-0001 9. SPONSORING ORGANIZATION - NAME AND ADDRESS (IF NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fillfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U. S. C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D a of the Atomic Energy Act of 1954 (42 U. S. C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview		7 PERIOD COVERED (Inclusive Dates)
8. PERFORMING ORGANIZATION - NAME AND ADDRESS (If NRC, provide Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address; Invision of Security Operations Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above"; If contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY)		,
Division of Security Operations Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle F		CY 2024
Division of Security Operations Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001 9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDSDESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  13. AVAILABILITY STATEMEN		ory Commission, and mailing address; if
Office of Nuclear Security & Incident Response U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate and the Committee on Environment and Public Works of the Senate Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation		
U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001  Senonsoring Gracianization - Name and address.)  Same as above  10. Supplementary Notes  11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspection Program  13. AVAILABILITY STATEMENT unclassified  14. SECURITY CLASSIFICATION  (This Page)  unclassified  15. NUMBER OF PAGES		
Washington, D.C. 20555-0001  9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDSIDESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Secu		
9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above", if contractor, provide NRC Division, Office or Region, U. S. Nuclear Regulatory Commission, and mailing address.)  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspection Program  13. AVAILABLITY STATEMENT  unlimited  14. SECURITY CLASSIFICA		
Same as above  10. SUPPLEMENTARY NOTES  11. ABSTRACT (200 words or less) This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  13. AVAILABILITY STATEMENT unlimited  14. SECURITY CLASSIFICATION  (This Pape)  15. AUGURETO OF PAGES  16. NUMBER OF PAGES	<u> </u>	, Office or Region, U. S. Nuclear Regulatory
11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  13. AVAILABILITY STATEMENT unlimited  14. SECURITY CLASSIFICATION  15. Report  16. The Pages  17. The Pages  18. COMMER OF PAGES		
11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  13. AVAILABILITY STATEMENT unclassified  (This Report)  Unclassified  14. SECURITY CLASSIFICATION  (This Report)  15. NUMBER OF PAGES	Same as above	
11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  13. AVAILABILITY STATEMENT unclassified  (This Report)  Unclassified  14. SECURITY CLASSIFICATION  (This Report)  15. NUMBER OF PAGES		
11. ABSTRACT (200 words or less)  This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  13. AVAILABILITY STATEMENT unclassified  (This Report)  Unclassified  14. SECURITY CLASSIFICATION  (This Report)  15. NUMBER OF PAGES		
This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program	10. SUPPLEMENTARY NOTES	
This report fulfills the requirements of Section 170D.e of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(e)), as amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program		
amended, which states, "not less often than once each year, the Commission shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Congressional Report  In SECURITY CLASSIFICATION  (This Report)  unclassified  This Report)  unclassified  Security Inspection Program  Security Response Evaluation Program	11. ABSTRACT (200 words or less)	
Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES		
Representatives a report, in classified form and unclassified form, that describes the results of each security response evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  13. AVAILABILITY STATEMENT unlimited  (This Report)  unclassified  15. NUMBER OF PAGES		
evaluation conducted and any relevant corrective action taken by a licensee during the previous year." Additionally, Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES	•	
Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, grants the U.S. Nuclear Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES		,
Regulatory Commission (NRC) the authority to determine which licensed facilities must undergo these security evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES		
evaluations. The NRC is reporting the security response evaluation results for the Nation's fleet of operating commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES	Section 170D.a of the Atomic Energy Act of 1954 (42 U.S.C. §2210 d(a)), as amended, g	rants the U.S. Nuclear
commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, given the significance of the nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES	Regulatory Commission (NRC) the authority to determine which licensed facilities must u	ndergo these security
nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the scope of this report includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES	evaluations. The NRC is reporting the security response evaluation results for the Nation'	s fleet of operating
includes those undergoing decommissioning but not yet transitioned to a dry-storage independent spent fuel storage installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  13. AVAILABILITY STATEMENT  unlimited  14. SECURITY CLASSIFICATION  (This Page)  unclassified  15. NUMBER OF PAGES	commercial nuclear power plants (NPPs) and Category I (CAT I) fuel cycle facilities, giver	n the significance of the
installation due to the continued implementation of Title 10 of the Code of Federal Regulations Part 73, "Physical Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  13. AVAILABILITY STATEMENT unlimited  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES	nature, form, and quantity of nuclear material at these facilities. With respect to NPPs, the	scope of this report
Protection of Plants and Materials." This report includes a comprehensive overview of the combined results of the security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  13. AVAILABILITY STATEMENT  unlimited  14. SECURITY CLASSIFICATION  (This Page)  (This Report)  unclassified  15. NUMBER OF PAGES	includes those undergoing decommissioning but not yet transitioned to a dry-storage inde	pendent spent fuel storage
security programs for calendar year (CY) 2024.  12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  13. AVAILABILITY STATEMENT  unlimited  14. SECURITY CLASSIFICATION  (This Page)  unclassified  (This Report)  unclassified  15. NUMBER OF PAGES	installation due to the continued implementation of Title 10 of the Code of Federal Regula	tions Part 73, "Physical
12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)  Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  13. AVAILABILITY STATEMENT  unclimited  (This Peport.)  (This Page)  (This Report)  unclassified  15. NUMBER OF PAGES	Protection of Plants and Materials." This report includes a comprehensive overview of the	combined results of the
Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  unlimited  14. SECURITY CLASSIFICATION  (This Page)  unclassified  (This Report)  unclassified  15. NUMBER OF PAGES	security programs for calendar year (CY) 2024.	
Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  unlimited  14. SECURITY CLASSIFICATION  (This Page)  unclassified  (This Report)  unclassified  15. NUMBER OF PAGES		
Category I Fuel Cycle Facilities  Commercial Power Reactors  Congressional Report  Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  unlimited  14. SECURITY CLASSIFICATION  (This Page)  unclassified  (This Report)  unclassified  15. NUMBER OF PAGES	12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)	13. AVAILABILITY STATEMENT
Commercial Power Reactors14. SECURITY CLASSIFICATIONCongressional Report(This Page)Force-on-Force InspectionsunclassifiedReport to Congress(This Report)Security Inspection ProgramunclassifiedSecurity Response Evaluation Program15. NUMBER OF PAGES		
Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES		14. SECURITY CLASSIFICATION
Force-on-Force Inspections  Report to Congress  Security Inspection Program  Security Response Evaluation Program  15. NUMBER OF PAGES	Congressional Report	(This Page)
Report to Congress Security Inspection Program Security Response Evaluation Program 15. NUMBER OF PAGES	· ·	unclassified
Security Response Evaluation Program 15. NUMBER OF PAGES	Report to Congress	, , ,
	Security Response Evaluation Program Security	15. NUMBER OF PAGES

16. PRICE

Nuclear Security













NUREG-1885, Revision 19

Report to Congress on the Security Inspection Program for Operating Commercial Power Reactors and Category I Fuel Cycle Facilities: Results and Status Update – Annual Report for Calendar Year 2024

September 2025