



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
475 ALLENDALE ROAD, SUITE 102
KING OF PRUSSIA, PA 19406-1415

September 8, 2025

Rob Desmarais, ISFSI Manager
Connecticut Yankee Atomic Power Company
Haddam Neck Plant
362 Injun Hollow Road
East Hampton, CT 06424-3099

SUBJECT: CONNECTICUT YANKEE ATOMIC POWER COMPANY – NRC
INDEPENDENT SPENT FUEL STORAGE SECURITY INSPECTION
REPORT NO. 07200039/2025401

Dear Rob Desmarais:

On August 21, 2025, the U.S. Nuclear Regulatory Commission (NRC) completed an Independent Spent Fuel Storage Installation (ISFSI) security inspection at the permanently shut down Connecticut Yankee Atomic Power Company ISFSI. The inspection covered your physical security plan and the October 16, 2002, Interim Compensatory Measures for Dry Independent Spent Fuel Storage Installations Order and was conducted using NRC Inspection Procedure 81311, "Physical Security Requirements for Independent Spent Fuel Storage Installations."

The enclosed inspection report documents the inspection results, which were discussed with you, and other members of your staff on August 21, 2025.

The inspection examined activities conducted under your license as they relate to security and compliance with the Commission's rules and regulations and with the conditions of your license. Within these areas, the inspection consisted of an examination of selected procedures and representative records, observations of activities, and interviews with personnel.

Based on the results of this inspection, no findings of more than minor significance were identified.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this cover letter and enclosure will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

Brice Bickett, Branch Chief
Security, Emergency Preparedness and Incident
Response Branch
Division of Radiological Safety and Security

Docket No. 07200039
License No. SFGL-21

Enclosure:
Inspection Report No. 07200039/2025401

Distribution via ListServ

cc w/encl:

Jeffrey Semancik, Director, Radiation Division, Bureau of Air Management, CT DEEP
Jeffrey.Semancik@ct.gov

James Lenois, ISFSI Security Program Manager, jlenois@3yankees.com
S. Hemingway, Assistant Director of Operations, shemingway@3yankees.com

SUBJECT: CONNECTICUT YANKEE ATOMIC POWER COMPANY – NRC
 INDEPENDENT SPENT FUEL STORAGE SECURITY INSPECTION
 REPORT NO. 07200039/2025401 DATED: SEPTEMBER 8, 2025

Distribution w/encl: (via E-mail)

CRegan, DRSS
 MFerdas, DRSS
 EEve, DRSS
 ADimitriadis, DRSS
 SBrunell, PAO
 DTiftt, SLO
 KHussar, DRSS
 BBickett, DRSS
 DarylJohnson, NSIR
 JClark, NSIR
 JWorosilo, DRS, RII
 MZiolkowski, DRSS, RIII
 JRollins, DRSS, RIV
 JRey, NSIR
 SOSB Insp Rpt Distro

SUNSI Review Complete: KHussar

After declaring this document "An Official Agency Record" it will be released to the Public. **To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy** **ADAMS ACCESSION NUMBER: ML25246A029**

OFFICE	RI/DRSS	RI/DRSS				
NAME	KHussar	BBickett				
DATE	09/2/2025	09/8/2025				

OFFICIAL RECORD COPY

**U.S. NUCLEAR REGULATORY COMMISSION
REGION I
INSPECTION REPORT**

Docket No. 07200039

License No. SFGL-21

Report No. 07200039/2025401

Licensee: Connecticut Yankee Atomic Power Company

Address: 362 Injun Hollow Road, East Hampton, CT 06424-3099

Location Inspected: Connecticut Yankee Atomic Power Company Independent Spent Fuel Storage Installation (ISFSI)

Inspection Dates: August 20 - 21, 2025

Inspector: Ken Hussar, Senior Physical Security Inspector

Approved by: Brice Bickett, Chief
Security, Emergency Preparedness and
Incident Response Branch
Division of Radiological Safety and Security

Enclosure

REPORT DETAILS

a. Inspection Scope

The inspector evaluated this area by reviewing the Connecticut Yankee Independent Spent Fuel Storage Installation (ISFSI) security plan, implementing procedures, and records; conducting interviews with responsible security personnel and plant employees; and performing walk-downs of the ISFSI.

The inspector: (1) reviewed portions of the access authorization program for the ISFSI; (2) evaluated and assessed the licensee's testing and maintenance program to assure the functionality and reliability of security equipment; and (3) evaluated the security systems to determine if a rapid, capable response to safeguards contingency events had been appropriately developed and effectively implemented.

The inspector conducted the following specific inspection activities and evaluated the program to determine if: (a) the access authorization program provided reasonable assurance that individuals granted unescorted access to the ISFSI Protected Area (PA) were trustworthy and reliable and did not constitute an unreasonable risk to public health and safety; (b) procedures were in place to ensure that vehicles accessing the ISFSI had proper authorization and were properly searched; (c) keys, locks, combinations, and associated hardware used in the ISFSI PA were properly controlled; (d) the intrusion detection system (IDS) had the ability to detect and assess unauthorized penetration of the ISFSI PA and adequate response capability existed; (e) alarms for the ISFSI IDS annunciated at an alarm station which was continually staffed; (f) the ISFSI PA was illuminated to facilitate adequate assessment of PA penetration or unauthorized activity; (g) a program was in place for testing and maintenance of the physical protection systems associated with the ISFSI; (h) the spent fuel storage was within a PA and was protected by two barriers; (i) the vehicle barrier system satisfied the design vehicle bomb attack requirements; (j) communications had been established between onsite security forces and a designated response force or Local Law Enforcement Agency (LLEA); (k) a security organization with written procedures had been established; (l) members of the security organization were trained, equipped, qualified, and requalified to perform assigned duties; (m) the committed responders provided for an adequate armed response; (n) written response procedures were established and maintained; (o) training included ISFSI activities; (p) safeguards events were being properly reported; (q) audits of the physical protection system were conducted; (r) signs were posted in accordance with requirements; (s) the licensee established an emergency plan; (t) the response force or LLEA had unimpeded access to the ISFSI PA during contingency events; and (u) staffing, procedures, and resources were adequate to protect against radiological sabotage.

b. Observations and Findings

No findings were identified.

The inspector reviewed 8 condition reports, self and independent assessments, training records, weekly equipment testing records, daily patrol records, and intrusion alarm system performance testing records. The inspector conducted challenge testing of the intrusion detection system and the alarm assessment system.

c. Conclusions

No violations of more than minor significance were identified.

Exit Meeting Summary

On August 21, 2025, the inspector presented the inspection results to Rob Desmarais, ISFSI Manager, and other members of the licensee's staff. The inspector verified that no proprietary information was retained by the inspector or documented in this report.

**SUPPLEMENTAL INFORMATION
KEY POINTS OF CONTACT**

Licensee Personnel

R. Desmarais, ISFSI Manager

LIST OF ITEMS OPEN, CLOSED, AND DISCUSSED

Opened

None

Opened and Closed

None

Closed

None

INSPECTION PROCEDURES USED

IP 81311, Physical Security Requirements for Independent Spent Fuel Storage Installations

LIST OF DOCUMENTS REVIEWED

Procedures

SP-1, Security Conduct of Operations, Revision 16

SP-5, Control of Weapons, Ammunition and Contingency Equipment, Revision 24

SP-6, SAS Responsibilities, Revision 16

SP-11, Testing and Maintenance of Security Equipment, Revision 43

Other

Connecticut Yankee Physical Security Plan, Revision 5

Condition Reports

CY-CR-2023-273

CY-CR-2024-079

CY-CR-2024-048

CY-CR-2025-149

CY-CR-2025-121

CY-CR-2025-097

CY-CR-2025-082

CY-CR-2025-017

LIST OF ACRONYMS USED

ADAMS	Agencywide Documents and Access Management System
CFR	Code of Federal Regulations
IDS	Intrusion Detection System
ISFSI	Independent Spent Fuel Storage Installation
LLEA	Local Law Enforcement Agency
NRC	Nuclear Regulatory Commission
PA	Protected Area
PARS	Publicly Available Records