



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

May 31, 2018

Shae Hemingway
ISFSI Manager
Connecticut Yankee Atomic Power Company
362 Injun Hollow Road
East Hampton, CT 06424

SUBJECT: NRC INDEPENDENT SPENT FUEL STORAGE INSTALLATION INSPECTION
REPORT NOS. 07200039/2018001 and 05000213/2018001, CONNECTICUT
YANKEE ATOMIC POWER COMPANY, EAST HAMPTON, CONNECTICUT
SITE

Dear Mr. Hemingway:

On May 3, 2018, the U.S. Nuclear Regulatory Commission (NRC) conducted a safety inspection at the Connecticut Yankee Atomic Power Company (Connecticut Yankee) Independent Spent Fuel Storage Installation (ISFSI). The inspection examined activities under your license as they relate to safety and compliance with the Commission's regulations and the conditions of your license. The inspection consisted of observations by the inspectors, interviews with personnel, and a review of records and procedures. The results of the inspection were discussed with you at the conclusion of the inspection. The enclosed report presents the results of this inspection.

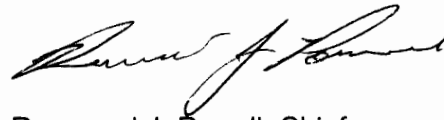
Within the scope of this inspection, no violations were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if you choose to provide one, will be made available electronically for public inspection in the NRC Public Document Room or from the NRC document system (ADAMS), accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be made available to the Public without redaction.

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select Nuclear Materials; Med, Ind, & Academic Uses; then Regulations, Guidance and Communications. The current Enforcement Policy is included on the NRC's website at www.nrc.gov; select About NRC, Organizations & Functions; Office of Enforcement; Enforcement documents; then Enforcement Policy (Under 'Related Information'). You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 8:00 a.m. to 5:30 p.m. EST, Monday through Friday (except Federal holidays).

No reply to this letter is required. Please contact Orysia Masnyk Bailey at 864-427-1032 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Raymond J. Powell". The signature is fluid and cursive, with a large initial "R" and "P".

Raymond J. Powell, Chief
Decommissioning, ISFSI, and
Reactor HP Branch
Division of Nuclear Materials Safety

Dockets Nos.: 07200039, 05000213

License Nos.: SFGL-21, DPR-61

Enclosure:

Inspection Report Nos. 07200039/2018001 and 05000213/2018001

cc w/Encl: State of Connecticut

No reply to this letter is required. Please contact Orysia Masnyk Bailey at 864-427-1032 if you have any questions regarding this matter.

Sincerely,

RAJ

Raymond J. Powell, Chief
Decommissioning, ISFSI, and
Reactor HP Branch
Division of Nuclear Materials Safety

Dockets Nos.: 07200039, 05000213
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Enclosure:
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cc w/Encl: State of Connecticut

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SUNSI Review Complete: OMasnykBailey

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NAME	OMasnykBailey		KWarner		RPowell	<i>RJP</i>		
DATE	<i>RSP for review 5/31/18</i>		<i>KW 5/31/18</i>		<i>RP 5/31/18</i>			

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U.S. NUCLEAR REGULATORY COMMISSION
REGION I

INSPECTION REPORT

Inspection Nos. 07200039/2018001 and 05000213/2018001
Docket Nos. 07200039 and 05000213
License Nos. SFGL-21 and DPR-61
Licensee: Connecticut Yankee Atomic Power Company
Location: 362 Injun Hollow Road, East Hampton, CT 06424
Inspection Dates: May 3, 2018

Inspectors: Orysia Masnyk Bailey
Health Physicist
Decommissioning, ISFSI, and Reactor HP Branch
Division of Nuclear Materials Safety

Katherine Warner
Health Physicist
Decommissioning, ISFSI, and Reactor HP Branch
Division of Nuclear Materials Safety

Approved By: Raymond J. Powell, Chief
Decommissioning, ISFSI, and Reactor HP Branch
Division of Nuclear Materials Safety

EXECUTIVE SUMMARY

Connecticut Yankee Atomic Power Company
NRC Inspection Report Nos. 07200039/2018001 and 05000213/2018001

An announced safety inspection was conducted on May 3, 2018, at the Connecticut Yankee Atomic Power Company (Connecticut Yankee) Independent Spent Fuel Storage Installation (ISFSI). The inspectors assessed whether Connecticut Yankee personnel were operating and maintaining ISFSI programs at an away-from-reactor (AFR) ISFSI in conformance with the commitments and requirements contained in the Final Safety Analysis Report (FSAR), Safety Evaluation Report (SER), Certificate of Compliance (CoC), Technical Specifications (TS), Quality Assurance (QA) program, Connecticut Yankee procedures, and 10 CFR Part 72. The inspectors' review was directed toward confirming the ongoing adequacy of the radiation protection, fire protection, emergency preparedness, surveillance, maintenance, environmental monitoring, training, QA, and corrective action programs. The inspectors observed activities, interviewed personnel, and reviewed records and procedures. Based on the results of this inspection, no findings of significance were identified.

REPORT DETAILS

I. Organization and Scope of the Program

A. Inspection Scope

The inspectors assessed whether Connecticut Yankee personnel were operating and maintaining ISFSI programs at an AFR ISFSI in conformance with the commitments and requirements contained in the FSAR, SER, CoC, TS, QA program, Connecticut Yankee procedures, and 10 CFR Part 72.

AFR ISFSI facilities, located at sites where loading operations have been completed, are essentially passive operating facilities. The inspectors' review was directed towards confirming the ongoing adequacy of the radiation protection, fire protection, emergency preparedness, surveillance, maintenance, environmental monitoring, training, QA, and corrective action programs.

The inspectors observed activities, interviewed personnel, and reviewed records and procedures. The inspectors also reviewed changes made to Connecticut Yankee's programs and procedures since the last inspection to verify that changes were consistent with the license or CoC and did not reduce the effectiveness of the program.

B. Observations

The inspectors determined that Connecticut Yankee's plans and preparations for controlling radiological activities were effective at meeting 10 CFR Part 20 requirements. The inspectors also verified that special nuclear material (SNM) stored at the ISFSI was properly accounted for. Dosimetry records and environmental monitoring reports were reviewed. All employees were below the regulatory dose limits and dose for members of the public at the nearest accessible location to the ISFSI were within limits prescribed by 10 CFR 72.104.

Connecticut Yankee's emergency preparedness program properly coordinated with the appropriate offsite support groups, agencies, and local law enforcement agencies (LLEAs). The emergency call list was current and checked periodically for accuracy. All revisions to the emergency plan have been submitted to the NRC and reviewed by the Office of Nuclear Security and Incident Response (NSIR).

Daily temperature monitoring of the vertical concrete casks (VCCs) was performed by Connecticut Yankee personnel in accordance with surveillance requirements in the TS. Connecticut Yankee's procedures contain backup plans if the primary surveillance method was unavailable. The inspectors performed a tour of the ISFSI pad and observed previous pad repairs to assess their material condition. The inspectors noted that the licensee continues to focus on pad conditions and performs regular inspections. The inspectors also verified that transient combustibles were not being stored on the ISFSI pad or in the vicinity of the VCCs and confirmed vehicle entry onto the ISFSI pad was controlled in accordance with site procedures.

Connecticut Yankee has a training program which consists of classroom, and on-the-job training, as well as briefings performed by supervisors. Refresher training was given on a regular basis and retraining was given as necessary if human performance issues were

identified. All employees have been trained and qualified to perform their assigned ISFSI-related functions.

The inspectors reviewed the most recent independent audit of the ISFSI program. The inspectors determined that issues were entered into the corrective action program, prioritized, and evaluated commensurate with their safety significance. Corrective actions were implemented to address identified issues and were tracked to closure. The QA program evaluated changes in the ISFSI program to ensure that any changes that were implemented would not decrease the overall effectiveness of the program. The inspectors also reviewed Connecticut Yankee's 10 CFR 72.212 evaluation report and ensured it was being appropriately updated.

C. Findings

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

II. Exit Meeting Summary

On May 3, 2018, the inspectors presented the inspection results to Shae Hemingway, Connecticut Yankee Site Manager and other Connecticut Yankee personnel.

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Licensee

M. Baldari, Security Project Manager
 J. Beauchemin, Assistant Project Manager
 J. Bourassa, RPM/QA Representative
 S. Buchan, ISS
 S. Day, Licensing Engineer
 R. Desmarais, ISFSI Technical Specialist
 S. Hemingway, ISFSI Manager
 J. Lenois, 3 Yankee Security Program Manager
 J. Maachi, Program Manager
 R. Mitchell, Assistant Director of Operations
 D. Pratt, ISS Upgrade
 J. Williams, Technical Manager
 E. Vidou, ISO

ITEMS OPEN, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

Audits and Reports

BYR 2017-20, Special Nuclear Materials Inventory 2017
 ISFSI Memo 17-056, Self-Assessment - Radiation Protection Program
 CY ISFSI 10 CFR 72.212 Evaluation Report, Rev.13, January 2017

Miscellaneous

Yankee Rowe RWP
 Off-Site Dose Calculation Manual
 2017 Completed June Survey Package
 Approved Yankee VCC Inlet Port Survey

Procedures

EF-3, Rev. 8, Special Nuclear Material and Greater than Class C Waste Control, Accountability, and Reporting Program
 EO-5, Rev. 11, Emergency Planning Implementation
 FP-1, Rev. 5, Fire Protection Program
 FP-2, Rev. 4, Fire Hazard Analysis
 FP-3, Rev. 7, Fire Fighting Pre-Plans
 OP-7, Rev. 4, VCC and ISFSI Pad Inspection Program
 RP-1, Rev. 9, ISFSI Conduct of Radiation Protection
 RP-2, Rev. 16, Radiological Surveys and Postings
 RP-3, Rev. 0, Radiological Environmental Monitoring Program (REMP)
 RP-4, Rev. 0, Personnel Radiation Monitoring
 RP-5, Rev. 0, Radiation Work Permits

LIST OF ACRONYMS USED

AFR	Away-From-Reactor
CFR	Code of Federal Regulations
CoC	Certificate of Compliance
CY	Connecticut Yankee Atomic Power Company
FSAR	Final Safety Analysis Report
IP	Inspection Procedure
ISFSI	Independent Spent Fuel Storage Installation
LLEA	Local Law Enforcement Agencies
NSIR	Office of Nuclear Security and Incident Response
QA	Quality Assurance
SER	Safety Evaluation Report
SNM	Special Nuclear Material
TS	Technical Specification
VCC	Vertical Concrete Cask