

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

INSPECTION REPORT

Inspection No. 07200031/2012001
Docket No. 07200031
License No. SFGL-13
Licensee: Yankee Atomic Electric Company
Location: 49 Yankee Road
Rowe, MA 01367
Inspection Dates: June 7-8, 2012
Inspectors: Stephen Hammann, Senior Health Physicist
Decommissioning Branch
Division of Nuclear Materials Safety
Approved By: Marc S. Ferdas, Chief
Decommissioning Branch
Division of Nuclear Materials Safety

EXECUTIVE SUMMARY

Yankee Atomic Electric Company
NRC Inspection Report No. 07200031/2012001

A routine, announced safety inspection was performed on June 7 and 8, 2012, of the Yankee Atomic Electric Company (Yankee Rowe) Independent Spent Fuel Storage Installation (ISFSI). The inspector assessed whether Yankee Rowe personnel were operating and maintaining ISFSI programs at an away-from-reactor (AFR) ISFSI in conformance with the commitments and requirements. AFR ISFSI facilities, located at sites where loading operations have been completed, are essentially passive operating facilities. The inspector's review was directed toward confirming the ongoing adequacy of the radiation protection, fire protection, emergency preparedness, surveillance, maintenance, environmental monitoring, training, quality assurance (QA), and corrective action programs. The inspector observed activities, interviewed personnel, and reviewed records and procedures.

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

I. **REPORT DETAILS**

a. **Inspection Scope (Inspection Procedure (IP) 60858)**

The inspector assessed whether Yankee Rowe 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), QA program, Yankee Rowe procedures, and 10 CFR Part 72.

AFR ISFSI facilities, located at sites where loading operations have been completed, are essentially passive operating facilities. The inspector's 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 inspector observed activities, interviewed personnel, and reviewed records and procedures. The inspector also reviewed changes made to the 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 and Findings**

The inspector determined that Yankee Rowe's plans and preparations for controlling radiological activities were adequate. The inspector 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 the dose requirements for members of the public at the nearest accessible location to the ISFSI were within limits prescribed by 10 CFR 72.104.

Yankee Rowe has an emergency preparedness program which properly coordinates with the appropriate offsite support groups, agencies, and local law enforcement agencies (LLEA). The emergency call list is current and is 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 and visual checks of the inlet and outlet screened openings are performed by Yankee Rowe personnel in accordance with surveillance requirements in the TS. Yankee Rowe's procedures contain backup plans if the primary surveillance methods are unavailable. The control of combustibles to and from the ISFSI pad are controlled by security and kept within the required TS limits and no combustibles are stored on the ISFSI pad.

Yankee Rowe has a training program which consists of classroom, and on-the-job training, as well as briefings performed by supervisors. Refresher training is given on a regular basis and retraining is given as necessary if human performance issues are identified. All employees have been trained and qualified to perform their assigned ISFSI-related functions.

The inspector reviewed the most recent independent audit of the ISFSI program. The inspector 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 determine that no changes were implemented that would decrease the overall effectiveness of the program.

c. Conclusions

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

The licensee is operating and maintaining the ISFSI programs in conformance with the commitments and requirements contained in the FSAR, SER, CoC, TS, QA program, Yankee Rowe procedures, and 10 CFR Part 72.

Exit Meeting Summary

On June 8, 2012, the inspector presented the inspection results to Robert Mitchell and David Yorke. The inspector confirmed that proprietary information was not provided or examined during the inspection.

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Licensee

D. Levesque, G4S Project Manager
R. Mitchell, ISFSI Manager
D. Sampson, ISFSI Security Supervisor
D. Yorke, ISFSI Specialist

ITEMS OPEN, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

2011 Corrective Actions Trend Report
AD-2, Conduct of ISFSI Operations
AD-7, Corrective Action Program
AD-15, ISFSI Surveillance and Report Program
AD-16, ISFSI Personnel Training and Qualifications
AD-21, Trouble Report (TR)/Work Request (WR)
CR Log Cause Code Tracking/Trending
Condition Reports 11-011, 11-035, 11-045, 12-005, 12-022, 12-024
EO-2, Emergency Plan Administration
EO-3, Response to Accidents
EO-4, Response to Natural Phenomena
EO-5, Emergency Plan Implementation
FP-1, ISFSI Fire Protection Program
FP-4, ISFSI Fire Hazard Analysis
Yankee Rowe – 2011, Annual Radioactive Effluent Release Report
Yankee Rowe – 2011, Annual Radiological Program Assessment
Yankee Rowe Emergency Plan
ISFSI Occupational Radiation Exposure Reports, 2011
OP-1, ISFSI Temperature Monitoring Program
OP-3, Monthly Check of Diesel Generator
QA-1, Quality Program Administration
QA-2, Quality Assessments
RP-1, ISFSI Conduct of Radiation Protection
RP-3, ISFSI Personnel Radiation Monitoring

LIST OF ACRONYMS USED

AFR	Away-From-Reactor
CoC	Certificate of Compliance
FSAR	Final Safety Analysis Report
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
TS	Technical Specifications
Yankee Rowe	Yankee Atomic Electric Company