

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-443/85-33

Docket No. 50-443/85-33

License No. CPPR-135

Priority --

Category B

Licensee: Public Service of New Hampshire

P. O. Box 330

Manchester, New Hampshire 03105

Facility Name: Seabrook I

Inspection At: Seabrook, New Hampshire

Inspection Conducted: December 11-13, 1985

Inspectors:

c/a for A. Krasopoulos
A. Krasopoulos, Reactor Engineer

1/23/86

date

Approved by:

C. Anderson
C. Anderson, Chief, Plant Systems Section, DRS

1/23/86

date

Inspection Summary: Inspection on December 11-13, 1985 (Report No. 50-443/85-33).

Areas Inspected: Routine announced inspection of the licensee's Fire Protection Program readiness to receive fuel. The inspection included a review of procedures, fire brigade and plant personnel training, observation of work activities and a facility tour. The inspection involved 22 hours on-site, by one region based inspector.

Results: No violations were identified. Four items remained unresolved at the end of the inspection.

DETAILS

1.0 Persons Contacted

1.1 Public Service of N.H. (PSNH)

- *J. Azzopardi, QA Engineer
- *W. Middleton, QA Staff Engineer
- B. O'Connor, Quality Control
- *G. McDonald, Construction QA Manager
- *D. Jaquette, Licensing
- *E. Trump, Sr. Fire Protection Engineer
- *J. Marchi
- *R. Gillette, Assistant Construction QA Manager
- G. Shamis
- J. Martin, Technical Services Coordinator
- J. Tefft, Project Engineer
- L. Walsh, Operations Manager
- J. Singleton, Assistant QA Manager
- *J. Grillo, Assistant Operations Manager
- *D. Conti, Fire Fighter Supervisor
- *D. Turner, Quality Assurance Engineer
- *D. Maidrand, Assistant Project Manager
- K. Pratt, Fire Fighter Technician
- J. Southwell, Fire Fighter Technician
- R. Davies, Fire Fighter Technician
- M. Wurthen, Jr. Fire Fighter Technician
- L. Merrow, Fire Fighter Technician
- G. James, Jr. Fire Fighter Technician
- L. Wilson, Fire Fighter Technician
- J. Degnan, Fire Fighter Technician
- M. Kimbal, Fire Fighter Technician
- R. Miller, Fire Fighter Technician

1.2 U.S. Nuclear Regulatory Commission, (NRC)

- *R. Barkley, Reactor Engineer

*Denotes those present at the exit interview

2.0 Follow up of Previous Inspection Findings

(Closed) Deviation (85-443/85-06-02) Deviation from FSAR commitment to have U.L. Listed components in the Fire Protection System

The licensee installed Hydrant Isolation Valves that are not U.L. Listed. To justify the deviation from the commitment, the licensee provided a comparison between the installed valves and similar valves with U.L. Listing.

A review of the comparison by the inspector determined that the installed valves are acceptable for their intended service.

This item is resolved.

Other licensee actions in this area included the revision of Specification 248-20 to require U.L. Listing and Factory Mutual approval for all fire hydrants, post indicator valves and fire hydrant isolation valves, and an examination of other fire protection related specifications to assure that the FSAR commitment for U.L. Listing for Fire Protection hardware is satisfied.

The inspector did not identify any unacceptable conditons.

(Closed) Unresolved Item (85-443/85-06-04) Separation of Fire Protection Water Supplies

The water tanks for the Fire Protection System are located near each other. The concern raised, was that failure of one tank may cause the undermining of the other tank. A review of tank installation drawings provided by the licensee determined that the tank foundations are quite substantial and not subject to ground erosion from a water spill.

The licensee also provided concrete barriers around the tanks to prevent tank damage from a vehicular accident.

This item is resolved.

(Closed) Unresolved Item (50-443)85-06-05) Unsealed Penetrations in the walls of the Fire Pump House

The licensee awarded the penetration seal contract and the penetrations in the fire pump house walls have been sealed.

This item is resolved.

3.0 Facility Tour

The inspector examined fire protection water systems including: fire pumps, fire water piping and distribution systems, post indicator valves, hydrants and contents of hose houses. The inspector toured accessible vital and nonvital plant areas and examined fire detection and alarm systems, automatic and manual fixed suppression systems, interior hose stations, fire barrier penetration seals, and fire doors. The inspector observed general plant housekeeping conditions and randomly checked tags of portable extinguishers for evidence of periodic inspections. No deterioration of equipment was noted. The inspection tags attached to extinguishers indicated that monthly inspections were performed.

The only deficiency identified is as follows:

Work on Fire Barriers Fire Detection and Suppression Systems Incomplete

The inspector observed that the fire barriers and fire detection suppression systems of the Fuel Handling Building (FHB) are not fully operational.

The licensee committed to complete all work in this area prior to fuel receipt on site.

This is an unresolved item pending completion of the work (50-443/85-33-01).

4.0 Fire Protection/Prevention Programs

The inspector reviewed several documents in the following areas of the Fire Protection Program to verify the licensee's readiness to receive and store nuclear fuel on site.

The documents reviewed, the scope of review and the inspection findings for each area of the program are described in the following sections.

4.1 Administrative Controls of Combustibles and Ignition Sources

The inspector reviewed the following licensee documents:

- Fire Protection Program Manual, Revision 1

The scope of review was to verify that the licensee had developed administrative controls for the area where new fuel is stored which included:

- a. Special authorization for the use of combustible, flammable or explosive hazardous material;
- b. Prohibition on the storage of combustible, flammable or explosive hazardous material;
- c. The removal of all wastes, debris, rags, oil spills or other combustible materials resulting from the work activity or at the end of each work shift, whichever is sooner;
- d. All wood used to be treated with flame retardant;
- e. Periodic inspection for accumulation of combustibles;
- f. Transient combustibles to be restricted and controlled;
- g. Housekeeping to be properly maintained;
- h. Requirements for special authorization (work permits) for activities involving welding, cutting, grinding, open flame or other ignition sources and that they are properly safeguarded; in areas containing safety-related equipment and components; and
- i. Prohibition of smoking in areas where the new fuel will be stored except where "smoking permitted" areas have been specifically designated by plant management.

No unacceptable conditions were identified.

4.2 Fire Brigade Training

The inspector reviewed the following licensee documents:

- S35 Emergency Plan
- Program overview - Fire Brigade Quarterly Training (Miscellaneous Lesson Plans)

In addition to the above documents the inspector reviewed training records of fire brigade members to ascertain they had successfully completed all required training.

The purpose of the review was to ascertain that in the event of a fire in the fuel receiving/storage area the site fire brigade and the fire watches will be able to combat fires successfully.

Deficiencies identified are as follows:

Fire Brigade Leader Training

Each fire brigade is composed of 3 auxiliary operators and two fire fighters. The fire fighters are professionals with prior fire fighting experience in city fire departments. The leader of each brigade will be a fire fighter. The licensee stated that the required fire brigade leader training has not been completed, however, this training will be provided to the brigade leaders prior to fuel receipt on site. This is an unresolved item pending completion of all required training (50-443/85-33-02).

Fire Drills in the Fuel Handling Building (FHB)

The inspector requested to review critiques of drills for a scenario involving a fire in the FHB.

The licensee stated that drills in this area have not been performed to date. However, this type of drill was scheduled to be performed for all brigades prior to fuel receipt.

This is an unresolved item (50-443/85-33-03).

Fire Fighting Strategy Book Accessibility

The inspector noted that the licensee's fire fighting strategies (pre fire plan) are contained in binders. The inspector questioned the practicality of carrying the binders in a fire situation.

The licensee agreed to review this concern. Pending a review of the actions taken by the licensee in this area this item is unresolved (50-443/85-33-04).

5.0 Unresolved Items

Unresolved items are matters about which more information is required to ascertain whether they are acceptable items, violations or deviations.

6.0 Exit Interview

The inspector met with the licensee representatives, denoted in Paragraph 1, at the conclusion of the inspection on December 13, 1985. The inspector summarized the scope and findings of the inspection at that time.

The inspector also discussed with the licensee the contents of the inspection report and ascertained that it would not contain any proprietary information. The licensee agreed that the inspection report may be placed in the Public Document Room without prior licensee review for proprietary information (10 CFR 2.790).

At no time during this inspection was written material provided to the licensee by the inspector.