

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 50-245/79-25  
50-336/79-27  
Docket No. 50-245  
50-336  
License No. DPR-21  
DPR-65 Priority -- Category C

Licensee: Northeast Nuclear Energy Company  
P. O. Box 270  
Hartford, Connecticut 06101

Facility Name: Millstone Nuclear Power Station, Units 1 and 2

Inspection at: Waterford, Connecticut

Inspection conducted: November 5-9, 1979

Inspectors: P. S. Koltay  
P. S. Koltay, Reactor Inspector

1/4/80  
date signed

date signed

date signed

Approved by: A. E. Linker  
S. D. Ebner, Chief, Engineering  
Support Section No. 2, Reactor Construction  
and Engineering Support Branch

1/8/80  
date signed

Inspection Summary:

Inspection on November 5-9, 1979 (Report Nos. 50-245/79-25; 50-336/79-27)

Areas Inspected: Routine unannounced inspection of the Fire Protection/Prevention Program including: assignment of functional responsibilities; implementation of administrative controls; fire brigade training; observation of ignition source and combustible materials control; observation of fire protection systems and components; observation of plant modifications; review of surveillance test records associated with the fire protection program; and observation of critical fire areas. The inspection involved 28 hours onsite by one NRC regional based inspector.

Results: Of the 8 areas inspected, no items of noncompliance were identified in 7 areas; one item of noncompliance was identified in one area (Infraction - failure to follow plant housekeeping procedure Paragraph 6.4).

## DETAILS

### 1. Persons Contacted

Northeast Nuclear Energy Company

- \*R. Ayala, Station Services Engineer
  - \*D. Buttler, Building Services Supervisor
  - \*J. Crosby, Operations Assistant Supervisor - Unit 1
  - \*E. Farrell, Superintendent - Unit 2
  - \*R. Herbert, Superintendent - Unit 1
  - \*D. LeDuc, Station Services Engineer
  - \*E. Mrozzka, Station Services Superintendent
  - \*J. Opeka, Station Superintendent
  - R. Price, Training Coordinator - Unit 2
  - \*W. Romberg, Operations Supervisor - Unit 1
  - J. Roncaioli, Fire Protection Engineer
  - B. Shine, Shift Supervisor - Unit 1
- USNRC

\*T. Shedlosky, NRC Resident Inspector

\*Denotes those personnel who were present at the exit interview

### 2. Fire Protection/Prevention Program Review

#### a. Functional Responsibilities

The inspector reviewed the following licensee procedure:  
-- OP505/2511, "Emergency Procedure, Fire" revision 4 dated June 20, 1979, and verified that the licensee has developed lines of communication for onsite and offsite organizations and assigned responsibilities for fire protection/prevention activities.

No items of noncompliance were identified.

#### b. Administrative Controls

The inspector reviewed the following licensee documents and procedures:

Technical Specifications section 6.5.2.8;

ACP-QA-1.10 "Fire Protection Quality Assurance Program" revision 1 dated October 12, 1979;

OP 505/2511 "Emergency Procedure, Fire" revision 4 dated June 20, 1979;

ACP 8.02 "Fire Fighting Training Program" revision 3 dated December 15, 1978; and verified that the licensee has developed administrative controls which include:

- (1) Requirements for periodic audits;
- (2) Requirements for indoctrination of all contractor personnel and offsite licensee personnel who work onsite in appropriate administrative procedures which implement the fire protection program, and the emergency procedures relative to fire protection;
- (3) Qualifications of fire brigade members; and
- (4) Identification of actions to be taken by individual discovering fire and subsequent actions to be taken by control room operator.

The inspector reviewed Fire Protection Program Audits A-50219 dated February 1979; A50200 dated October 1978; and A-50170 dated April 1978.

No items of noncompliance were identified.

c. Control of Combustibles

The inspector reviewed the following licensee procedures:

ACP-2.05 "Fire Protection Administration and Program" revision 5, dated May 25, 1979;

ACP-2.05B "Control of Combustible Materials, Flammable Liquids, Compressed Gases and Ignition Sources", revision 3 dated April 5, 1979;.

ACP-QA-4.01 "Plant Housekeeping" revision 7 dated March 16, 1979; and verified that the licensee has developed administrative controls which require:

- (1) Special authorization for the use of combustible, flammable or explosive hazardous material in safety related areas;



- (2) Prohibition on the storage of combustible, flammable or explosive hazardous material in safety related areas;
- (3) The removal of all wastes, debris, rags, oil spills or other combustible materials resulting from the work activity following completion of the activity or at the end of each work shift, whichever is sonner;
- (4) All wood used in safety related areas to be treated with flame retardant; and
- (5) Periodic inspection for accumulation of combustibles.

During a tour of the facility the inspector observed several instances indicative of poor housekeeping practices and lack of adequate control on smoking in safety related areas posted with "No Smoking" signs. During the inspection of the Unit 1 control room, the inspector found an open trash can, filled with combustible materials, located behind the control room electrical panels. The inspector also found evidence of smoking within the main control board of the Unit 1 control room in the form of several extinguished cigarettes inside the electrical cable penetration area. This is a designated "No Smoking" area, with "No Smoking" signs posted. During the inspection of the Unit 2 D. C. switchgear room the inspector found an open trash can, filled with combustible debris, generated by recent but completed work activity, located next to safety related electrical panels of the switchgear room. Licensee's administrative control procedure ACP-QA-4.01 "Plant Housekeeping", revision 7 dated March 16, 1979 states in part, "All personnel are to refrain from smoking within the following areas in Unit 1: ...Control Room (within Main Control Board)...Paragraph 6.4 of the procedure states, "...each plant person in required to clear the work or activity area of debris...before the work or activity is terminated...The Building Services Department performs cleaning and trash removal services..."

The inspector notified the licensee that station housekeeping practices and smoking control were conducted contrary to licensee procedure ACP-QA-4.01.

This is an infraction level item of noncompliance (79-25-1; 79-27-1)

d. Control of Ignition Sources

The inspector reviewed the following licensee procedures:

ACP-QA-4.01 "Housekeeping" revision 7, dated March 16, 1979;

ACP-2.05B "Control of Combustible Materials, Flammable Liquids, Compressed Gases and Ignition Sources", revision 3, dated April 5, 1979;

GSP1905/21905/31905 "Semi-Annual Fire Door Inspection" revision 0, dated January 26, 1979, and verified that the licensee has developed procedures which include:

- (1) Requirements for special authorization for activities involving welding, open flame, or other ignition sources and that they take cognizance of nearby flammable material, cable trays or critical process equipment;
- (2) Prohibition on smoking in safety related areas, except where "smoking permitted" areas have been specifically designated by plant management.
- (3) Requirements for maintaining fire doors closed at all times.

No items of noncompliance were identified.

e. Fire Fighting Procedures

The inspector reviewed the following licensee procedure -- OP 505/2511 "Emergency Procedure, Fire" revision 4, dated March 9, 1979; and verified that the licensee has developed an administrative procedure which includes:

- (1) Actions to be taken by the fire brigade;
- (2) Coordination of fire fighting activities with offsite fire departments;

- (3) Actions to be taken by plant superintendent and security guards after notification of fire; and
- (4) Instructions for plant operators and general plant personnel during a fire.

No items of noncompliance were identified.

f. Fire Brigade Training

The inspector reviewed the following licensee procedure:

- ACP 8.02 "Fire Fighting Training Program" revision 3 dated December 15, 1978; and verified that the licensee has developed an administrative procedure which includes:
  - (1) A requirement for announced and unannounced drills;
  - (2) A requirement that at least one drill per year be performed on a "back shift" for each fire brigade; and
  - (3) A requirement that local offsite fire department participate in at least one annual drill.

No items of noncompliance were identified.

3. Review of Fire Protection/Prevention Program Implementation

a. Fire Inspections

The inspector reviewed the loss prevention report dated May 18, 1978, prepared by the licensee's insurer, American Nuclear Insurer (ANI). The licensee stated that the recommendations contained in the report are being evaluated and corrective action will be taken as necessary. The recommendations did not involve safety related areas.

No items of noncompliance were identified.

b. Emergency Drills

The licensee has conducted eight emergency fire drills during 1979, four for Unit 1 and four for Unit 2. All drills were unannounced. The inspector reviewed the critique of each fire drill conducted in 1979. The critique of Unit 1 fire drill conducted on February 5, 1979 and of Unit 2 fire drill conducted on June 14, 1979 indicate paging systems equipment problems which resulted in delayed response by fire brigade members.



The licensee stated that the inaudibility of the paging system in certain high noise areas is under evaluation as per IE Bulletin No. 79-18, Audibility Problems Encountered On Evacuation of Personnel From High-Noise Areas, dated August 7, 1979.

Several fire drill critiques also indicated communications problems with the hand held portable radios. The licensee stated that interference with the security personnel, who utilize the same frequency as the fire brigade, has occurred during drills. Also; in several instances fire brigade members have not responded to calls on portable radios. The licensee stated that in order to remedy the problems, vibration type beepers will be issued to fire brigade members, and the antennae for the portable radios will be rerouted in a manner which will improve portable radio communications.

c. Facility Tour

The inspector examined the yard fire protection equipment including: indicator valves, protection of valves and hydrants against vehicular damage, and contents of hose houses. The inspector examined fire alarms, fire suppression systems, and fire barrier penetration seals, throughout the accessible vital areas including, the reactor building MG set area and the turbine building switchgear areas for Unit 1; and the cable spreading room, primary auxiliary building and the cable vaults for Unit 2. The inspector randomly checked tags of portable extinguishers for evidence of periodic inspections. No deterioration of equipment was noted, and the inspection tags attached to extinguishers indicated that monthly inspections were performed.

4. Modifications Required by Amendment 43 to DPR-65 and by Amendment 53 to DPR-21

The licensee stated, that all modifications identified in section 3.0 of the Fire Protection Safety Evaluation Reports, issued as Amendment 43 to DPR-65 and Amendment 53 to DPR-21 are under various stages of consideration, design and installation. Scheduled completion dates, 1980 refueling outages, should be met.

5. Exit Interview

The inspector met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection. The scope and findings of this inspection were presented during this meeting.