

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-423/85-68

Docket No. 50-423

License No. CPPR-113 Priority - Category B

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

Facility Name: Millstone Unit 3

Inspection At: Waterford, Connecticut

Inspection Conducted: November 4-6, 1985

Inspector: A. G. Krasopoulos
A. G. Krasopoulos, Reactor Engineer

11/25/85
date

Approved by: C. J. Anderson
C. J. Anderson, Chief, Plant Systems
Section, DRS

11/25/85
date

Inspection Summary: Inspection on November 4-6, 1985 (Report No. 50-423/85-68)

Areas Inspected: Routine announced inspection of the Fire Protection/Prevention Program including: program administration and organization; administrative control of combustibles; administrative control of ignition sources; other administrative controls; equipment maintenance, inspection and tests; fire brigade training; requirements for periodic inspections and quality assurance audits; and facility tour. The inspection involved 24 inspector-hours on site by one region based inspector.

Results: Of the areas inspected, no violations were identified. Two items remained unresolved at the end of the inspection.

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DETAILS

1.0 Persons Contacted

1.1 Northeast Nuclear Energy Co. (NNECo)

B. Albee, Assistant Maintenance Supervisor
*R. Ayala, Station Services Engineer
J. Charles, Project Staff Engineer
J. Chiloyan, Electrical Engineer
R. Cikatz, QC Engineer
C. Clement, Maintenance Supervisor
K. Gray, Staff Assistant
R. Joshi, Licensing Engineer
D. Leduc, Senior Station Technician
W. Lepper, Electrical Engineer
G. Malchiodi, Training Instructor
D. Moore, Assistant Operations Supervisor
G. Nadeau, Assistant Project Engineer
J. Naylor, Fire Protection Engineer
P. O'Connell, Quality Assurance
G. Olsen, Electrical Engineer
S. Orefice, Project Engineer
P. Privizzini, Assistant Maintenance Supervisor
J. Roncacioli, Supervisor, Fire Protection
E. Sanders, Power Engineer
B. Woodsby, Power Engineer

1.2 Nuclear Regulatory Commission (NRC)

*T. Rebeloski, Senior Resident Inspector
F. Casella, Resident Inspector

*Denotes those present at the exit interview.

(Closed) Unresolved Item (50-423/85-53-06) Repairs for Cold Shutdown

A fire in the Auxiliary Building Fire Area AB-1D could damage all three component cooling pumps. At least one of these pumps is needed to bring the plant to a cold shutdown. The applicant stated that repairs using equipment readily available at the plant can replace a pump motor assumed to be lost during a fire. The inspector verified that repair procedures exist and all equipment such as pump motor, cable, connectors, gantry crane etc. are at the plant and designated for use in the event of a fire in this area. No unacceptable conditions were identified.

This item is resolved.

(Closed) Unresolved Item (50-423/85-53-09) Tcold Instrumentation Work Incomplete

The applicant committed to install instrumentation to monitor the cold leg temperature (Tcold) in the Auxiliary Shutdown Panels.

The applicant installed the instrument on the B train (purple) panel which receives its input from the Westinghouse Instrument Rack located in the instrument rack room. For a fire in this room the applicant can monitor Tcold instrumentation by decoupling an umbilical cord type device from the B train panel and connecting the instrument to a jack on the A train panel that receives input from the A train (orange) switchgear room. This is in accordance with discussions held between the applicant and the NRC.

This item is resolved.

(Closed) Unresolved Item (50-423/85-53-10) Emergency Lighting Work Incomplete

Emergency lighting units with 8 hour battery power supply are required by Branch Technical Position (BTP) 9.5-1 section c.5.g in all areas needed for operation of safe shutdown equipment and in access and egress routes thereto.

The applicant installed the required lighting throughout the plant. The inspector verified the adequacy of the lighting by walking down selected emergency procedures and by "blacking out" selected areas (control room and auxiliary shutdown panel areas).

No unacceptable conditions were identified.

This item is resolved.

3.0 Fire Protection/Prevention Program

The inspector reviewed several documents in the following areas of the program to verify that the applicant had developed and implemented adequate procedures consistent with the Fire Hazard Analysis (FHA), Final Safety Analysis Report (FSAR), and Technical Specifications (TS). The documents reviewed, the scope of review, and the inspection findings for each area of the program are described in the following sections.

3.1 Program Administration and Organization

The inspector reviewed the following documents:

- Technical Specifications, Section 6, Administrative Controls
- Procedure ACP-QA-2.05 Revision 17, Fire Protection Program
- Procedure ACP-QA-1.10, Fire Protection Quality Assurance Program.

The scope of review was to ascertain that:

- a. Personnel were designated for implementing the program at the site; and
- b. Qualifications were delineated for personnel designated to implement the program

No unacceptable conditions were identified.

3.2 Administrative Control of Combustibles

The inspector reviewed the following documents;

- Procedure ACP 2.05B Control of Combustible Materials, Flammable Liquids, Compressed Gases, and Ignition Sources
- Procedure ACP-QA-4.01, Revision 11, Plant Housekeeping

The scope of review was to verify that the applicant had developed administrative controls which included:

- a. Special authorization for the use of combustible, flammable or explosive hazardous material in safety-related areas;
- b. Prohibition on the storage of combustible, flammable or explosive hazardous material in safety-related areas;
- 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 in safety-related areas to be treated with flame retardant;
- e. Periodic inspection for accumulation of combustibles;
- f. Transient combustibles to be restricted and controlled in safety-related areas; and
- g. Housekeeping to be properly maintained in areas containing safety-related equipment and components.

No unacceptable conditions were identified.

3.3 Administrative Control of Ignition Sources

The inspector reviewed the following documents:

- Procedure ACP-2.05B, Revision 11, Control of Combustibles Materials, Flammable Liquids, Compressed Gases and Ignition Sources

The scope of review was to verify that the applicant had developed administrative controls which included:

- a. Requirements for special authorization (work permit) 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
- b. Prohibition on smoking in safety-related areas, except where "smoking permitted" areas had been specifically designated by plant management.

No unacceptable conditions were identified.

3.4 Other Administrative Controls

The inspector reviewed the following documents:

- Technical Specifications, Section 6, Administrative Controls Procedure ACP-QA-2.05, Revision 17, Fire Protection Program.
- Procedure EOP 3509, Revision 2, Fire Emergency.

The scope of review was to verify that the applicant had developed administrative controls which require that:

- a. Work authorization, construction permit or similar arrangement is provided for review and approval of modification, construction and maintenance activities which could adversely affect the safety of the facility;
- b. Fire brigade organization and qualifications of brigade members are delineated;
- c. Fire reporting instructions for general plant personnel are developed;
- d. Periodic audits are to be conducted on the entire fire protection program; and

- e. Fire protection/prevention program is included in the applicant's QA Program

No unacceptable conditions were identified except as follows:

Fire Fighting Strategies Not Included in Fire Emergency Procedure

The applicant has developed fire fighting strategies to combat fires in all plant areas. These strategies are not included in any procedure, instead they are included in an engineering department document used for training purposes. The applicant stated that these strategies will be included as an appendix to procedure EOP-3509 in the next revision of this procedure. This procedure will be placed in every fire brigade locker for use by fire brigade personnel. The applicant also stated, that the directions included in Procedure EOP-3509 for brigade members to assemble in the control room prior to dispatch, will be revised. The brigade members will henceforth assemble, by the equipment locker nearest to the scene of the fire.

This is an unresolved item (50-423/85-68-01).

3.5 Equipment Maintenance, Inspection and Tests

The inspector reviewed Procedures SP3641A-G to determine whether the applicant had developed adequate procedures which established maintenance, inspection, and testing requirements for the plant fire protection equipment to satisfy the TS requirements.

No unacceptable conditions were identified.

3.6 Fire Brigade Training

3.6.1 Procedure Review

The inspector reviewed the following procedures:

- ACP 8.02, Revision 9 Fire Fighting Training Program

The scope of review was to verify that the applicant had developed administrative procedures which included:

- a. Requirements for announced and unannounced drills;
- b. Requirements for fire brigade training and retraining at prescribed frequencies;
- c. Requirements for at least one drill per year to be performed on a "back shift" for each brigade;

- d. Requirements for local fire department coordination and training; and
- e. Requirements for maintenance of training records.

No unacceptable conditions were identified except as follows:

Fire Watch Training

Applicant's Procedure ACP-8.02 requires training of fire watches in the use of fire extinguishers. The inspector noted that fire watches do not receive "hands on" training with the fire extinguishing equipment used during fire watch duties.

The applicant committed to provide all fire watches with the necessary hands-on training. This is an unresolved item (50-423/85-68-02).

3.6.2 Records Review

The inspector reviewed training records of fire brigade members for calendar year 1985 to ascertain that they had successfully completed the required quarterly training/meeting, semiannual drill, and yearly hands-on fire extinguishing practice.

No unacceptable conditions were identified.

3.7 Periodic Inspections and Quality Assurance Audits

3.7.1 Quality Assurance Audits

The applicant in the final draft of the Technical Specification section 6.5.4.7 has made provisions for auditing the Fire Protection Program every 12 months and every 24 months.

The applicant stated that the 12 month audits shall be performed by an outside firm experienced in fire protection. The applicant understands that the use of company or other company affiliate personnel to perform these audits, does not satisfy the provisions of the TS.

3.8 Facility Tour

The inspector examined work completed of fire protection water systems, fire water piping and distribution systems post indicator valves, hydrants and contents of hose houses. The inspector toured accessible vital and non-vital plant areas and examined completed work of fire detection and alarm systems, suppression systems, interior hose stations, fire barriers penetration seals and fire doors.

No unacceptable conditions were identified.

4.0 Unresolved Items

Unresolved items are matters about which more information is required to ascertain whether they are acceptable items, violations or deviations. Unresolved items disclosed during the inspection are discussed in Sections 3.4 and 3.7.

5.0 Exit Interview

The inspector met with applicant management representatives (see Section 1.0 for attendees) at the conclusion of the inspection on November 1, 1985. The inspector summarized the scope and findings of the inspection at that time.

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

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