

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

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

Facility Name: Millstone Nuclear Power Station, Unit 2

Inspection Conducted: June 3-6, 1985

Inspector: J. A. Robertson
J. A. Robertson, Reactor Engineer

1 July 85
Date

Approved by: E. C. McCabe
E. C. McCabe, Chief, Reactor Projects Section 3B

7/1/85
Date

Inspection Summary:

Routine safety inspection (29 hours) of thermal shield storage, cask washdown pit filter changeout, service water hydrostatic pressure test, surveillance test procedure reviews, and plant tours. No unacceptable conditions were observed.

DETAILS

1. Thermal Shield Storage

The thermal shield was removed from the reactor vessel during the 1983 re-fueling/maintenance outage. It was reduced to chips and stored under water in the cask washdown pit in the storage pool area of the auxiliary building. The chips were contained by baskets.

The baskets are placed in a metal liner and cement is pumped on and around the basket to encase the chips. The solidification process is performed inside a lead Nupac cask. After the cement has hardened, the liner is transferred to a concrete storage cask which is placed in a yard storage area.

The inspector observed the transfer of the solidified thermal shield chips from the lead cask to the concrete storage cask. This operation was performed with good coordination between contractor and licensee personnel. HP's were present at both the 14'-6" and 38'-6" levels of the auxiliary building to monitor radiation levels. Adequate controls were in place to minimize exposure to personnel in the immediate and adjacent areas.

The cask, which was 10-20 mr on contact, was transported to a yard storage area that has a radiation area boundary.

Presently, the licensee has 4 casks containing thermal shield chips in yard storage where they will be kept until transported offsite to a permanent burial site.

No concerns were identified.

2. Service water Hydrostatic Pressure Test

A hydrostatic pressure test of the service water system must be performed every ten years to meet ASME boiler and pressure vessel codes.

The inspector verified that Technical Specifications required for the service water header operability were met during the performance of the test. The official test gage had the range and accuracy specified in the test procedure and met the calibration requirements.

The test identified leakage at two mechanical joints and one weld in the service water system. The leakage was documented, corrected, and satisfactorily retested. A deficiency was also discovered on the manual operator of a service water valve that is also air operated. Although this did not affect the test, it was properly documented on a trouble report.

At various times during the four hour test the inspector verified test pressure was being maintained at the value specified by the procedure.

No concerns were identified.

3. Cask Washdown Pit Filter Changeouts

The inspector observed the changeout of the water filters in the cask washdown pit in the storage pool area of the auxiliary building. The operation was performed smoothly and efficiently. Radiological controls were adequate and preplanning was effective at minimizing personnel exposure.

Filters were returned to service at the completion of the maintenance.

No concerns were identified.

4. Procedure Review

A review was performed on the following procedures:

- EN 21173, Service Water Hydrostatic Pressure Test
- SP 2613C, Engineered Safety Feature Systems Integrated Test
- SP 2402I, LT/OP Circuit Functional Test

These procedures were found to be technically adequate. They contained the necessary prerequisites and acceptance criteria. When required, personnel qualifications were specified. Test data forms would provide useful and understandable information.

Procedures were annotated to identify test changes and changes had the required review and approval signatures.

No concerns were identified.

5. Facility Tours

The following tours and observations were made.

- Toured containment, auxiliary building, pump house intake structure, and turbine building. General material condition, housekeeping, and fire protection was satisfactory.
- Toured yard storage area within radiation area boundary. Observed loading of 55 gallon drums of waste material for transport offsite. No concerns were identified.
- Reviewed recent control room logs and records. Operators were aware of scheduled and current test status. No concerns were identified.

6. Exit Meeting

The inspector met with the Unit Superintendent on June 6, 1985 and summarized the scope and findings of the inspection activities. No proprietary information was identified as being included in this report.