

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

REGION I

Report No. 50-213/80-05

Docket No. 50-213

License No. DPR-61 Priority -- Category C

Licensee: Connecticut Yankee Atomic Power Company
P. O. Box 270
Hartford, Connecticut 06101

Facility Name: Haddam Neck Plant

Inspection At: Haddam, Connecticut

Inspection Conducted: March 31 - April 4, 1980

Inspectors: T. H. Smith, Reactor Inspector

6/27/80
date

date

date

Approved by: R. R. Keimig, Chief, Reactor Projects Section
No. 1, RO&NS Branch

6-30-80
date

Inspection Summary:

Inspection on March 31 - April 4, 1980 (Report Number 50-213/80-05)

Areas Inspected: Routine, unannounced inspection by one regionally based inspector (20 hours) which included: participation in meetings between the licensee and NRR personnel on the subject of emergency planning; plant tours; and, followup of a plant trip which occurred on March 27, 1980.

Results: No items of noncompliance were identified.

DETAILS

1. Persons Attending Meetings

Connecticut Yankee Atomic Power Company

H. Clow, Health Physics Supervisor
*J. Ferguson, Station Services Superintendent
S. Fleming, Training Supervisor
*R. Graves, Station Superintendent
A. Nericcio, Plant Public Affairs
H. Wong, Engineer

Northeast Utilities Service Company

R. Brisco, Radiological Protection Scientist
R. Crandall, Radiological Assessment Engineer
E. Molloy, Engineer
R. Rodgers, Chief, Radiological Assessment Branch

Nuclear Regulatory Commission

R. Caruso, NRR
T. Jackson, Reactor Inspector
T. McKenna, NRR

* denotes those present at the ext interview conducted on April 3, 1980

In addition to the above personnel, the emergency planning meetings were attended by representatives of several state agencies, representatives of the Federal Emergency Management Agency, personnel under contract to the NRC and members of the public.

All listed personnel did not necessarily attend all meetings.

2. Emergency Planning Meetings Summary

On April 1-3, 1980, a series of meetings was held to review and discuss the revised emergency plan for the Haddam Neck Plant.

The following meetings were held:

Tuesday, April 1, 1980
1:00 p.m. - 5:00 p.m.

A fact finding and data collection tour of the plant was conducted and the following areas were reviewed: (1) overview of site concept of emergency operations, (2) tour of site emergency facilities, (3) emergency action level instrumentation, (4) dose projection methods, and (5) communications.

Wednesday, April 2, 1980
1:30 p.m. - 5:00 p.m.

Thursday, April 3, 1980
9:30 a.m. - 12:00 p.m.

Thursday, April 3, 1980
7:00 p.m. - 10:30 p.m.

NRR representatives met with the licensee to discuss NRC requirements and the results of preliminary emergency plan reviews. These were technical meetings which were open for public observation but not public participation.

An open discussion was held with members of the public to determine their views on the state of emergency preparedness in the area.

The licensee's draft emergency plan, dated January 1980, was reviewed against NUREG 0654 requirements which were also published in January 1980. As a result of the NRC review and this series of meetings, the licensee has committed to review the plan based on the new criteria and resubmit an updated plan, if required.

3. Review of Plant Trip

The inspector reviewed the licensee's investigation and assessment of the plant trip which occurred on March 27, 1980. The trip from 100% power was the result of a spurious containment isolation signal caused by the installation of a relay, in which contacts were in an incorrect configuration, in the containment isolation circuitry. The following is a brief sequence of events:

March 27, 1422 hrs: High containment pressure signal causes: (1) containment isolation, (2) Emergency Core Cooling System (ECCS) actuation, (3) reactor trip, and (4) turbine trip.

Operators verified proper automatic equipment functions and took actions as specified in emergency procedures.

All reactor coolant pumps were tripped due to loss of component cooling water when containment isolation occurred.

After verifying no loss of reactor coolant, ECCS equipment was secured.

March 27, 1443 hrs: Reactor coolant pumps restarted. Plant in normal hot shutdown condition.

March 28, 0144 hrs: Reactor taken critical.

March 28, 0402 hrs: Plant phased onto grid.

Prior to returning to power the Plant Operations Review Committee met and reviewed the event. It was determined that the procedure being used to make the modification to the containment isolation circuitry contained insufficient guidance to prevent the containment isolation signal which resulted.

The modification was completed while the plant was in hot standby.

All plant equipment operated as designed.

No items of noncompliance were identified in the inspector's review of this event and the subsequent actions taken by licensee personnel.

4. Exit Interview

The inspector met with licensee representatives (see Detail 1 for attendees) at the conclusion of the inspection on April 3, 1980. The inspector summarized the scope and findings of the inspection at that time. Matters pertaining to emergency planning were covered during the meetings between NRC/NRR and the licensee.