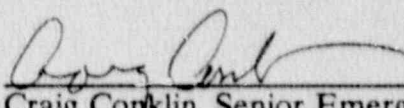
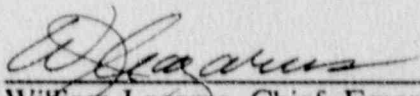


**U. S. NUCLEAR REGULATORY COMMISSION
REGION I**

Report No: **50-309/90-21**
Docket No: **50-309**
License No: **DPR-36**
Licensee: **Maine Yankee Atomic Power Company
83 Edison Drive
Augusta, Maine 04336**
Facility Name: **Maine Yankee Atomic Power Station**
Inspection At: **Wiscasset, Maine**
Inspection Conducted: **October 10, 1990**

Inspectors:  10/16/90
Craig Conklin, Senior Emergency Preparedness Specialist, DRSS date

Charles Marschall, Senior Resident Inspector

Approved By:  10/17/90
William Lazarus, Chief, Emergency Preparedness Section, DRSS date

Inspection Summary: Inspection on October 10-11, 1990, (Report No. 50-309/90-21)

Areas Inspected: A special, announced emergency preparedness inspection and observation of the licensee's remedial exercise was conducted at the Maine Yankee Nuclear Power Plant on October 10, 1990. The inspection was performed by a team of two NRC Region I personnel.

Results: No violations were identified. The licensee corrected the exercise weaknesses identified in the July 31, 1990 full-participation exercise. The licensee's response actions for this remedial exercise were adequate to provide protective measures for the health and safety of the public.

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DETAILS

1 Persons Contacted

The following licensee representatives attended the exit meeting held on October 11, 1990.

D. Whittier, Manager, Nuclear Engineering and Licensing
S. Evans, Licensing Supervisor
R. Blackmore, Plant Manager
H. Sierks, Onsite Emergency Preparedness Coordinator

2 Licensee Action on Previously Identified Items

The following items were identified during previous inspections (Inspection Nos. 50-309/89-04 and 50-309/90-14). As a result of exercise weaknesses identified during the July 31, 1990 full-participation emergency exercise, the licensee committed to conduct a remedial exercise. The Maine Yankee Nuclear Power Station remedial exercise was conducted on October 10, 1990, from 12:30 p.m. until 3:00 p.m. Personnel from the State of Maine observed at the Emergency Operations Facility (EOF). FEMA did not observe any activities. Based upon observations made by the NRC inspectors, review of the Emergency Plan and Emergency Plan Implementing Procedures, interviews with Maine Yankee staff, and observation of the remedial exercise, the status of those items is as follows.

(CLOSED) 50-309/89-04-03: Training of the Radiological Evaluation Assistant (REA) was ineffective.

The REA had received training prior to the remedial exercise. The REA was thoroughly familiar with the applicable implementing procedures and was able to effectively utilize them. The REA was also able to effectively explain the basis for evaluating dose consequences from releases, or potential releases, and to provide a basis for a protective action recommendation (PAR) to the Emergency Coordinator. The inspector noted however, that the REA still attempted to develop PARs based upon dose rather than plant conditions. The licensee agreed to provide additional training for the REAs regarding developing PARs based upon plant conditions as well as dose.

(CLOSED) 50-309/90-14-01: The Emergency Coordinator did not exhibit the ability to maintain adequate command and control at all times.

The Emergency Coordinator was observed to be effectively in command and control of the EOF at all times. He was very knowledgeable of EOF operations and applicable EOF implementing procedures. He conducted frequent briefings and directed staff as appropriate. He effectively interfaced with the Recovery Manager, as well as the Plant Manager and Technical Support Center (TSC) Manager.

(CLOSED) 50-309/90-14-02: The EOF was unaware of, or did not understand, plant conditions.

The Emergency Coordinator maintained close contact with the TSC. He closely followed plant conditions and trends. He also clearly understood the impact of existing plant conditions. He was quickly able to recognize deteriorating conditions and make proper, conservative emergency classifications, as well as assess any release potential and offsite impact.

(CLOSED) 50-309/90-14-03: A non-conservative and delayed PAR was made by the REA who recognized containment isolation, but stressed offsite doses in developing a PAR. The Emergency Coordinator approved these non-conservative PARs.

The EOF staff analyzed changing plant conditions and developed "what if" PARs very early in the scenario. When a General Emergency was declared, the REA quickly provided a PAR to the Emergency Coordinator. This PAR was based upon dose however, not plant conditions. The Emergency Coordinator quickly explained the significance of the plant conditions and the REA modified the PAR accordingly. The PAR was relayed to the State of Maine in a timely manner when approved.

3 Licensee Critique and Exit Meeting

The licensee conducted a good self-critique of the remedial exercise. Following the licensee's self-critique, the NRC team met with the licensee representatives listed in Section 1 of this report to present exercise observations as detailed in this report.

The licensee was informed that no violations or exercise weaknesses were observed and that the exercise weaknesses identified in the July 31, 1990 Emergency Exercise were corrected. The NRC team determined that within the scope and limitations of the scenario, the licensee's performance demonstrated that they could implement their Emergency Plan and Emergency Plan Implementing Procedures in a manner that would provide adequate protective measures for the health and safety of the public.

Licensee management acknowledged the findings and indicated that they would evaluate and take appropriate action regarding the item identified for corrective action.