

U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-293/82-06

Docket No. 50-293

License No. DPR-35 Priority -- Category C

Licensee: Boston Edison Company M/C Nuclear

800 Boylston Street

Boston, Massachusetts 02199

Facility Name: Pilgrim Nuclear Power Station

Inspection At: Plymouth, Massachusetts

Inspection Conducted: February 10-12, 1982

Inspectors: *P. Clemons*
P. Clemons, Radiation Specialist

6/17/82
date signed

Approved By: *E. G. Greenman*
E. G. Greenman, Chief, Facilities Radiation
Protection Section, Technical Programs Branch

date signed
6/17/82
date signed

Inspection Summary:

Inspection on February 10-12, 1982 (Report No. 50-293/82-06)

Areas Inspected: Routine unannounced safety inspection by a region based inspector of transportation activities, outstanding items, field inspection, procedures, shipments of radioactive waste and shipping documentation. The inspection involved 27 hours onsite by one region based inspector.

Results: No violations were identified. One Deviation was identified related to failure to meet a commitment for development of a training program and periodic retraining for radioactive waste activities (Paragraph 2).

DETAILS

1. Persons Contacted

- *Mr. W. Armstrong, Deputy Nuclear Operations Manager
- *Mr. P. Brixey, Manager, Plant Engineering
- *Mr. D. Campbell, Quality Control Inspector
- *Mr. R. DeLoach, Operations Quality Assurance Group Leader
- *Mr. B. Eldredge, Senior Health Physics Engineer
- Mr. R. Machon, Station Manager
- Mr. R. Smith, Senior Chemical Engineer
- Mr. R. Trudeau, Chief Radiological Engineer

NRC

- *Mr. A. Grella, Fuel Cycle and Material Safety
- *Mr. J. Johnson, Senior Resident Inspector

The inspector also interviewed waste management personnel, auxiliary operators and the Chief Maintenance Engineer.

*denotes those present at the exit interview.

2. Licensee Actions on Previous Inspection Findings

(Closed) Violation (293/77-21-09) Licensee failed to complete an NRC-Form 4 before allowing an individual to receive a dose in excess of 1250 millirem per quarter. The inspector reviewed licensee documentation that indicated that the licensee had all of the information required by the NRC-4 before permitting the employee to exceed 1250 millirem per quarter. Corrective action was verified as stated in the licensee's response to the violation dated November 29, 1979. This item is withdrawn.

(Closed) Inspector Follow-up Item (293/79-19-02) Review of procedures in place at the Radwaste Panel to ensure procedures are available for operating radwaste personnel. The inspector reviewed approximately ten current procedures that were contained in a notebook that was located in the Radwaste Control Room. The procedures were available to all operating personnel and they were adequate for the Radwaste operations.

(Closed) Inspector Follow-up Item (293/79-19-03) Verified that licensee developed a training program for those personnel who are involved in the transport, packaging and shipment of radioactive waste, and for those personnel who operate the processes which generate waste to assure that the volume of low level radioactive waste is minimized, etc.

In response to Bulletin 79-19, dated October 2, 1979 (BEC's Letter No. 79-193), the licensee committed to develop and implement by October 1, 1980, a formal training and periodic retraining program for those personnel who operate processes which generate radioactive waste. Inspection No.

50-293/79-19 further documented a licensee Waste Management Group representative commitment to develop a formal training and periodic retraining program, by May 1, 1980, for those personnel involved in the transfer, packaging, and transport of radioactive material.

As of February 12, 1982, neither program had been developed or implemented. Inspector Follow-up Item (293/79-19-03) is closed for record purposes. This failure to meet a commitment to the NRC is a Deviation (293/82-02-01).

(Closed) Inspector Follow-up Item (293/79-19-04) Review new and revised procedures to be used in the radwaste shipping program. The inspector verified approximately ten radwaste shipping procedures had been revised and issued since January 1980. The procedures adequately addressed the radwaste shipping program.

(Closed) Inspector Follow-up Item (293/79-19-05) Review licensee use of new resin liners capable of being drained more readily. A high integrity liner (Certificate of Compliance No. DHEC-HIC-PL-001) has been substituted for the "new resin liner," and the inspector inspected this liner to determine its capability for removing liquids that may be contained in resins. The inspector's review indicated this liner was adequate.

(Closed) Violation (293/79-23-01) Shipped radwaste in excess of DOT dose rate limit. The inspector reviewed the revised procedures and the documented policy change that required the approval of the Chief Radiological Engineer or a Senior Staff Engineer before radwaste could be released from the site. Corrective action was verified as stated in the licensee's response to the violation dated March 10, 1980. This review occurred during inspection 50-293/80-02.

3. Field Inspection

On February 10, 1982, the inspector toured accessible areas of the plant associated with the generation of radioactive waste that would ultimately be transported offsite. Areas inspected included the Radwaste Control Room, the current Compacting area, the former Compacting area, the outside storage area for liners and LSA boxes, and two trailers, containing 44 LSA boxes, that would be shipped on February 12, 1982. There were no obvious waste processing operations being performed during the tour.

On February 12, 1982, the inspector inspected two trailers that were scheduled to be shipped that day. The inspector verified that the visible boxes were banded with metal bands and the boxes were stored and braced to prevent shifting during transit. The inspector also reviewed shipping documentation to verify that documentation was completed and in order.

No violations were identified.

4. Procedures

The inspector reviewed the following procedures to verify that they had been reviewed and approved as required by Technical Specification 6.8 and ANSI N18.7-1976.

Procedure No. 6.9-060 - "Receipt of Radioactive Material"

Procedure No. 6.9-160 - "Shipment of Radioactive Material"

Procedure No. 6.9-161 - "Cask Handling Procedure HN-100-1 and HN-100-2"

Procedure No. 6.9-162 - "Handling Procedure for CNS-14-195 Cask"

Procedure No. 6.9-163 - "LSA Van Loading Procedure"

Procedure No. 6.9-164 - "Handling and Loading Procedure NFS-4 Shipping Cask"

Procedure No. 6.9-165 - "Handling and Loading Procedure LL-50-100 Shipping Cask"

Procedure No. 6.9-168 - "Handling Procedure for CSN-14-195L Cask"

No violations were identified.

5. Shipment of Radioactive Waste

During the tour on February 10, 1982, the inspector verified that the licensee was using a high integrity liner as the secondary container for spent resins radioactive waste shipments. The inspector examined records indicating a shipment was made on January 25, 1982, using shipping cask Model No. CNS 8-120. The shipment contained 145 curies of mixed fission products. The inspector reviewed the Certificate of Compliance, and all referenced documents, to verify the licensee was complying with requirements.

No violations were identified.

6. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on February 12, 1982. The inspector summarized the purpose and the scope of the inspection, and the findings as detailed in this report.