

#### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

### SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

## SUPPORTING AMENDMENT NO. 83 TO FACILITY OPERATING LICENSE NO. DPR-35

## BOSTON EDISON COMPANY

#### PILGRIM NUCLEAR POWER STATION, UNIT 1

# DOCKET NO. 50-293

## 1.0 Introduction and Background

In November 1980, the staff issued NUREG-0737, "Clarification of TMI Action Plan Requirements," which included all TMI Action Plan items approved by the Commission for implementation at nuclear power reactors. NUREG-0737 identifies those items for which Technical Specifications are required. A number of items which require Technical Specifications (TSs) were scheduled for implementation after December 31, 1981. The staff provided guidance on the scope of Technical Specifications for all of these items in Generic Letter 83-36. Generic Letter 83-36 was issued to all Boiling Water Reactor (BWR) licensees on November 1, 1983. In this Generic Letter, the staff requested licensees to:

- review their facility's Technical Specifications to determine if they were consistent with the guidance provided in the Generic Letter, and
- submit an application for a license amendment where deviations or absence of Technical Specifications were found.

By letter dated August 9, 1984, Boston Edison Company (the licensee) responded to Generic Letter 83-36 by submitting a Technical Specification change request for Pilgrim Unit 1. The licensee's submittal was then modified, following discussions with the staff, by letters dated September 21 and October 19, 1984. This evaluation covers the following TMI Action Plan items:

- 1. Noble Gas Effluent Monitors (II.F.1.1)
- 2. Containment High-Range Radiation Monitor (II.F.1.3)
- 3. Containment Pressure Monitor (II.F.1.4)
- 4. Containment Water Level Monitor (II.F.1.5)

In addition, the licensee has proposed changes in the TSs for the Suppression Pool Water Temperature Monitoring instrumentation which was modified to be consistent with Regulatory Guide 1.97, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident."

The changes in the TSs will be made by appropriate modifications and additions to Table 3.2.F (Surveillance Instrumentation), Table 4.2.F

8411210452 841107 PDR ADOCK 05000293 P PDR (Minimum Test and Calibration Frequency for Surveillance Instrumentation) and Section 3/4.7 (Containment Systems).

- 2.0 Evaluation
- 1. Noble Gas Effluent Monitors (II.F.1.1)

The licensee has supplemented the existing normal range monitors to provide noble gas monitoring, in accordance with Item II.F.1.1., at the reactor building, main stack, and turbine building vents. The proposed TSs are consistent with the guidelines provided in our Generic Letter 83-36. Therefore, we conclude that the TSs for Item II.F.1.1 are acceptable.

2. Containment High-Range Radiation Monitor (II.F.1.3)

The containment high range radiation monitoring system at Pilgrim Unit 1 consists of four detectors, two of which are mounted in drywell penetrations to view a large segment of the drywell volume and two of which are mounted in the torus compartment (outside torus proper) to view a large segment of the torus volume. Only the two monitors in the drywell are necessary to meet the requirements of II.F.1.3. The licensee proposed TSs are consistent with the guidance provided in our Generic Letter 83-36. Therefore, we conclude that the proposed TSs for containment high-range radiation monitors are acceptable.

3. Containment Pressure Monitor (II.F.1.4)

Pilgrim Unit 1 has been provided with two high range and two low range channels for monitoring containment pressure following an accident. The licensee has proposed TSs that are consistent with the guidelines contained in Generic Letter 83-36. Therefore, we conclude that the proposed TSs for containment pressure monitor are acceptable.

4. Containment Water Level Monitor (II.F.1.5)

The torus water level monitors provide the capability required by TMI Action Plan Item II.F.1.5. The proposed TSs contain limiting conditions of operation and surveillance requirements that are consistent with the guidance contained in Generic Letter 83-36. Therefore, we conclude that the proposed TSs for torus water level monitors are acceptable.

5. Suppression Chamber Water Temperature Monitors

The licensee has modified the suppression pool temperature monitoring instrumentation to provide bulk temperature indications in accordance with Regulatory Guide 1.97. The proposed limiting conditions for

operation are consistent with those approved for other accident monitoring instrumentation at Pilgrim Unit 1 and therefore, we find the proposed TSs for suppression chamber water temperature monitors to be acceptable.

#### 3.0 Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

### 4.0 Conclusion

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Frincipal Contributor: C. Patel

Dated: November 7, 1984