

September 26, 1985

Docket No. 50-293

LICENSEE: Boston Edison Company

FACILITY: Pilgrim Nuclear Power Station

SUBJECT: MEETING WITH BOSTON EDISON COMPANY ON AUGUST 21, 1985  
RELATIVE TO DETAILED CONTROL ROOM DESIGN REVIEW

On August 21, 1985, a meeting was held in Bethesda, Maryland concerning the NRC staff's Safety Evaluation (SE) of Boston Edison Company's (BECo) Detailed Control Room Design Review (DCRDR) Summary Report. The attendees are listed in the enclosure.

At this meeting the principal topics discussed were the following:

1. Progress on Pilgrim's DCRDR program since the NRC Pre-Implementation Audit of November 26-30, 1984

BECo has started Phase II, the implementation stage of the DCRDR, and has let a second contract to its human factors consultant, Torrey Pines Technology. BECo is reevaluating the annunciator system for Pilgrim Station and has started the process of writing a control room-wide "Design Standards Manual," which will contain standards for numerous items, including labels, colors, and abbreviations. A list of technical specifications has been devised which will be used for the new computer system. The safety parameter display system (SPDS) requirements are to be incorporated in the specification for the computer. BECo still intends to complete this project by the end of refueling outage eight (RFO-8) in the spring of 1988. NRC requested BECo to establish a date for submitting the DCRDR Supplement to the Summary Report in the near future. NRC also commented that BECo should state in the Supplement that the scope includes all tasks through cold shutdown.

2. Reg. Guide 1.97 Requirements

BECo inquired whether the Reg. Guide 1.97 requirements for the identification of instrumentation characteristics such as range and units would satisfy the DCRDR requirements for identification of instrument and control characteristics. The Reg. Guide 1.97 effort at Pilgrim had already identified and addressed approximately 200 control room instruments. The NRC response was the Reg. Guide 1.97 only covered those instruments required to be class 1-E. This category does not represent the entire set of instrumentation required to perform the emergency operating procedures (EOPs). Furthermore, while Reg. Guide 1.97 requires the identification of instrument characteristics such as range and units, the DCRDR requires the further detailing of such items as accuracy or precision of scales,

acceptable tolerances, set points, and speed of response to operation of associated controls.

3. BECo's position on execution of the Systems Function and Task Analysis (SFTA)

BECO's contention was that, with the exception of the two additional emergency procedures (secondary containment control and radioactivity release control) in Revision 3 of the BWROG emergency procedures guidelines (EPGs), BECo has completed the Supplement 1, NUREG-0737 requirements for the SFTA. BECo's representatives agreed to include these two additional guidelines of Revision 3 of the EPGs in its SFTA effort. They stated that the scope of the task analysis completed to date has, in fact, included all operator tasks during all emergency operations including going to cold shutdown. They also argued that they have already complied with the other two major conclusions noted on page 11 of the Technical Evaluation Report (TER) enclosed with the NRC's SE. These points (numbers 2 and 3, page 11 of the TER) would require BECo to carry out additional "front-end" work for the task steps in the EPGs.

4. NRC's position regarding BECo's SFTA

The NRC's position was that BECo needs to perform additional SFTA work in order to meet the intent of Supplement 1 to NUREG-0737. Specifically, BECo should:

- a) include the two additional guidelines from Revision 3 of the BWROG EPGs;
- b) include a "front-end" task analysis for all the EPGs including those in Revision 3 to establish operator information and control needs and associated characteristics;
- c) include interview techniques and questions designed to identify SFTA information and control needs during the "front-end" phase and to identify human engineering deficiencies (HEDs) during the walk-through phase.

In summary, BECo agreed to include the two additional guidelines from Revision 3 of the BWROG EPGs in its forthcoming Supplement to the Summary Report and will advise the NRC shortly of its plans with respect to the "front-end" task analysis and the interview techniques and questions called for in NRC's position above. To facilitate the completion of this work, the NRC provided BECo with examples of "front-end" and walk-through interview techniques as well as a list of specific questions designed to identify HEDs by task analysis methods. In addition to these actions to be performed for the SFTA, the Supplement to the Summary Report is expected to address the concerns contained in the staff's May 16, 1985 Safety Evaluation and the Technical Evaluation Report dated April 10, 1985.

BECO will submit to the NRC, in the near future, a letter containing a firm commitment on the date by which the Supplement to the Summary Report will be submitted.

Original signed by/

Paul H. Leech, Project Manager  
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Enclosure:  
As stated

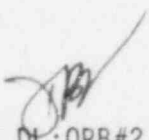
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ENCLOSURE

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AUGUST 21, 1985 MEETING RE: PILGRIM DCRDR

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