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Docket No. 50-295

FEB 8 1980

Mr. Cordell Reed
 Assistant Vice President
 Commonwealth Edison Company
 P. O. Box 767
 Chicago, Illinois 60690

Dear Mr. Reed:

In order for the NRC staff to develop guidance to enable licensees to carry out the recommendations identified in Section 7.1 of the "TMI-2 Lessons Learned Task Force Final Report" (NUREG-0585), Zion Station Unit 1 has been selected as one of eight operating nuclear plant control rooms to be surveyed by the staff. The eight plant survey is designed solely to collect data to develop guidance for licensees. The staff guidance is being developed to assist licensees in identifying human factors considerations that could be implemented to improve nuclear power plant operator capabilities.

The objectives of this survey are to formulate guidance by which a licensee should evaluate the following:

- (1) The adequacy of information presented to the operator to reflect plant status for normal operation, anticipated operational occurrences, and accident conditions.
- (2) The grouping of displays and the layout of panels.
- (3) Improvements in the safety monitoring and human factors enhancement of controls and control displays.
- (4) The communication from the control room to points outside the control room, such as the on-site Technical Support Center. (This communication link must also be coordinated with new requirements for transmission of plant systems data to NRC.)
- (5) The use of direct rather than derived signals for the presentation of process and safety information to the operator.
- (6) The operability of the plant from the control room with multiple failures of non-safety-grade and non-seismic systems and control room systems.

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- (7) The adequacy of operating procedures and operator training with respect to limitations of instrumentation displays in the control room.
- (8) The categorization of alarms, with unique definition of safety alarms.

To assist the staff in the preparation of these guidelines your cooperation is needed in the following ways:

- (1) Admittance for 4-6 people to the Zion Station Unit 1 control room for 2-3 days.
- (2) Qualified control room operator to assist the staff for the duration of the visit.
- (3) Permission to use video and audio recording and photographic equipment in the control room.
- (4) Access to copies of all procedures used in control room operations.
- (5) A briefing and debriefing with the plant manager.

It would also be helpful to the staff if representatives of the Architect Engineer and the NSSS supplier were made available for approximately one half day sometime during the staff visit.

As previously discussed with Mr. L. Peoples, we expect to be at the Zion Station Unit 1 security gate at 9:00 a.m. on February 27, 1980. The visiting team will consist of members of the NRC staff and its consultant, the Essex Corporation. A list which is inclusive of the names of the visiting personnel is enclosed for your information. The personnel from this list to be present at the control room visit will be sent the week prior to our visit.

Please feel free to telephone Mr. Dino Scaletti at (301) 492-8443 if additional information is required relating to the control room visit. Your cooperation in this important project is appreciated.

Sincerely,

AS

A. Schwencer, Chief
Operating Reactors Branch 1
Division of Operating Reactors

Enclosure:
As stated

cc w/encl: See next page

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Mr. Cordell Reed

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T. B. Malone
Essex Corporation
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Alexandria, Virginia 22314

CONTROL ROOM DESIGN SURVEYS
LIST OF SITE VISITORS AND IDENTIFICATION NUMBER

1. ESSEX CORPORATION

• Robin Walker	263-96-2774
• Kenneth Mallory	223-54-2477
• Thomas Malone	221-22-5970
• Clifford Baker	215-66-2745
• Mark Kirkpatrick	302-36-2708
• Nicholas Shields	131-70-4359
• Kenneth Turner	420-70-4359

2. UNITED STATES NUCLEAR REGULATORY COMMISSION

• Leo Beltracchi	111-24-8200
• Rodney Satterfield	415-62-5031
• Dino Scaletti	003-24-6143
• Raymond Ramirez	290-24-7803