



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO LICENSEE RESPONSE TO GENERIC LETTER NO. 83-28

COMMONWEALTH EDISON COMPANY
AND
IOWA-ILLINOIS GAS AND ELECTRIC COMPANY

QUAD CITIES STATION, UNITS 1 AND 2

DOCKET NOS. 50-254/265

1.0 INTRODUCTION

Background Information

Subsequent to the anticipated transient without scram (ATWS) events at the Salem Nuclear Power Plant, the Commission reviewed intermediate term actions to be taken by the licensees. The actions taken were developed on the basis of information contained in NUREG-1000, "Generic Implications of ATWS Events at the Salem Nuclear Power Plant." On July 8, 1983, Generic Letter (GL) No. 83-28 was issued by NRR. The letter identified NRC positions developed from review of the Salem ATWS events. These positions are related to reactor trip system reliability and general management capability. The specific GL 83-28 items covered by the Safety Evaluation are Sections 3.1.1 and 3.1.2, "Post-Maintenance Testing (RTS Components);" 3.2.1 and 3.2.2, "Post-Maintenance Testing (All Other Safety-Related Components);" and 4.5.1, "RTS Reliability (System Functional Test Description)."

Licensee's Response to Generic Letter (GL) No. 83-28

By letters dated November 5, 1983, and June 1, 1984, Commonwealth Edison Company responded to specific items of GL 83-28. The licensee summarized the results of the requested review and concluded that all items have been appropriately addressed.

Scope of Review

The staff's review consisted of an evaluation of the response to determine if the requirements of GL 83-28 had been satisfied. The evaluation for each of the items is given below.

2.0 EVALUATION

Items 3.1.1 and 3.1.2, "Post-Maintenance Testing (RTS Components)"

The review criteria for these items require that the licensee submit a statement indicating that he has reviewed plant test and maintenance procedures and Technical Specifications to ensure that post-maintenance

operability testing of safety-related components in the reactor trip system is required. Also, the licensee's statement should contain a verification that vendor-recommended test guidance has been reviewed, evaluated, and where appropriate, included in the test and maintenance procedures or the Technical Specifications. The staff has evaluated the licensee's November 5, 1983 submittal for this item and has determined it to be adequate in content.

Items 3.2.1 and 3.2.2, "Post-Maintenance Testing (All Other Safety-Related Components)"

The review criteria for these items require that the licensee submit a statement indicating that he has reviewed plant test and maintenance procedures and Technical Specifications to ensure that post-maintenance operability testing of all safety-related components is required. Also, a statement is required that contains a verification that vendor-recommended test guidance be reviewed, evaluated, and where appropriate, included in the test and maintenance procedures or the Technical Specifications. The staff has evaluated the licensee's November 5, 1983 submittal for this item and has determined it to be adequate in content.

Item 4.5.1, "RTS Reliability (System Functional Test Description)"

The review criteria for this item requires that the licensee submit a statement committing to independent, on-line functional testing of the diverse trip features. The staff has evaluated the licensee's November 5, 1983 and June 1, 1984 submittals for this item and has determined them to be adequate in content.

3.0 CONCLUSION

The staff concludes that the programs outlined in the licensee's submittals adequately address the requirements of Generic Letter No. 83-28 for the areas specified in this Safety Evaluation.

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Dated: May 31, 1985