



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT
NUCLEAR REGULATORY COMMISSION (NRC) BULLETIN 90-01, SUPPLEMENT 1
SOUTHERN CALIFORNIA EDISON COMPANY
SAN ONOFRE NUCLEAR GENERATING STATION, UNITS 2 AND 3
DOCKET NOS. 50-361 AND 50-362

1.0 INTRODUCTION

NRC Bulletin 90-01, Supplement 1, was issued by the NRC on December 22, 1992, to inform addressees of activities taken by the NRC staff and the industry in evaluating Rosemount transmitters and to request licensees to take actions to resolve this issue. The Supplement requested utilities to review the information for applicability to their facilities, perform testing on the transmitter commensurate with its importance to safety and demonstrated failure rate, and modify as appropriate their actions and enhanced surveillance programs. The Supplement also requested that licensees provide a response that included a statement as to whether the licensee will take the actions requested, a list of specific actions that the licensee would complete, and the schedule for completing the actions. Additionally, when the specific actions committed to in the licensee's response were completed, the licensee was required to provide a statement confirming said completion. If the licensee did not plan to comply with all of the Requested Actions as delineated in the Supplement, a statement was required identifying those Requested Actions not taken, as well as an evaluation which provided the bases for Requested Actions not taken.

2.0 DISCUSSION AND EVALUATION

The licensee for the San Onofre Nuclear Generating Station, Units 2 and 3, Southern California Edison Company, responded to NRC Bulletin 90-01, Supplement 1, in submittals dated March 4, 1993 and February 11, 1994. The Requested Actions delineated in Supplement 1 asked that licensees review plant records and identify any Rosemount Model 1153 Series B, Model 1153 Series D, and Model 1154 transmitters manufactured before July 11, 1989, that are used or may be used in the future in either safety-related systems or systems installed in accordance with 10 CFR 50.62 (the ATWS rule). Additionally, the licensee was to commit to a specified enhanced surveillance monitoring frequency that corresponded to the normal operating pressure of the transmitters identified. Furthermore, the licensee was requested to evaluate their enhanced surveillance monitoring program.

A detailed evaluation of the licensee's response is documented in the attached report prepared by the staff's contractor, Idaho National Engineering Laboratory. In response to Requested Actions 1.e and 1.f, the licensee indicated that certain medium and low pressure transmitters will be excluded from the enhanced surveillance monitoring program after a high degree of confidence of detecting loss of fill-oil transmitter failures has been established and after a high degree of reliability has been established for these transmitters. During discussions with the NRC staff, the licensee stated that it would include these medium and low pressure transmitters in the enhanced surveillance monitoring program until a methodology to maintain a high degree of confidence that these transmitters remain highly reliable and to maintain the ability to readily detect transmitter failures has been established. In addition, the licensee agreed to obtain NRC concurrence prior to removing any of these medium and low pressure transmitters from the enhanced surveillance monitoring program.

3.0 CONCLUSION

The staff has reviewed the licensee's response to NRC Bulletin 90-01, Supplement 1, and concluded that the licensee conforms to the Requested Actions and has completed the reporting requirements. The licensee has agreed to obtain NRC concurrence prior to removing any of the medium or low pressure transmitters subject to Requested Actions 1.e and 1.f from the enhanced surveillance monitoring program. Compliance with applicable Commission requirements may be the subject of NRC audits or inspections in the future.

Attachment: Technical Evaluation Report

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