



SACRAMENTO MUNICIPAL UTILITY DISTRICT 6201 S Street, P.O. Box 15830, Sacramento CA 95852-1830, (916) 452-3211  
RJR 85-593 AN ELECTRIC SYSTEM SERVING THE HEART OF CALIFORNIA

December 27, 1985

DIRECTOR OF NUCLEAR REACTOR REGULATION  
ATTENTION FRANK J MIRAGLIA JR DIRECTOR  
PWR-B DIVISION  
U S NUCLEAR REGULATORY COMMISSION  
WASHINGTON D C 20555

DOCKET 50-312  
RANCHO SECO NUCLEAR GENERATING STATION  
UNIT NO 1  
NUREG 0737 - SUPPLEMENT 1 - CONTROL ROOM DESIGN REVIEW (CRDR) SUMMARY REPORT

In our July 30, 1983 submittal, the District committed to submit a summary report of the Detailed Control Room Design Review being conducted at Rancho Seco. This commitment was later confirmed in an order letter dated February 21, 1984. In compliance with Item 2.b of the order, SMUD is submitting for your review, the Rancho Seco Control Room Design Review Summary Report.

The report consists of two volumes. Volume I contains the Summary Report, Volume II contains appendices A thru E.

Over 500 Human Engineering Observations (HEO's) were identified in the review process. These were evaluated for safety significance, categorized, and resolutions identified. Of the 516 HEO's, the CRDR identified:

1. No Category A HEO's (high safety importance - probably leads to a non-recoverable error).
2. 137 Category B (safety consideration - probably leads to a recoverable error, correctable by operators).
3. 37 Category C (electrical generation reliability/availability considerations).
4. 304 Category D (Minor/non-significant consideration).

For ease of review, when design changes were recommended to resolve HEO's, these changes were grouped to create logical change packages involving several related HEO's (possibly of different categories) as described in Section 3.3 of the Summary Report. Design details, when finalized, may vary from those described; however, the Human Factors philosophy and intent will be carried through the final implementation. Appendix B contains a description of all HEO's catalogued during the review.

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PDR ADOCK 05000312  
F PDR

AD - D. CRUTCHFIELD (ltr only)  
EB (W. JOHNSTON)  
RSB (THOMAS)  
ETCSR (PARR)  
FOB (W. REGAN)

*Printed Dist*  
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*Vol 192*

Frank J Miraglia JR

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The District has already implemented the changes summarized in Section 3.3.1 while pursuing the resolution of all remaining Category B HEO's determined to have a safety significance on a priority basis per the Living Schedule process. The Category C & D HEO's will be resolved with associated Category B HEO's or will be evaluated considering cost/benefit/resources in accordance with the Living Schedule Process.

If you have questions concerning the CRDR Summary Report, please contact Jerry Delezenski of my staff at Rancho Seco.

A handwritten signature in dark ink, appearing to read 'R. J. Rodriguez', is written over the typed name and title.

R. J. RODRIGUEZ  
ASSISTANT GENERAL MANAGER  
NUCLEAR

Attachment (2)