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SUMMARY AND EVALUATION REPORT

Report Title: Diablo Canyon Unit I Independent Design Verification Program

Verification of Design Analysis Hosgri Spectra

Report No. ITR-10, Rev. 10

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1.0 INTRODUCTION

This is a review of ITR #10, Rev. 0, "Diablo Canyon Unit I Independent Design Verification Program - Verification of Design Analysis HOSGRI SPECTRA". The review is based upon material contained in the report itself. Discussions were not held with IDVP staff nor were any of the data contained in the ITR-10 references verified.

2.0 SUMMARY

The objective of the ITR is to review the extent to which the HOSGRI spectra were properly applied in design applications. The design bases spectra are contained in DCM C-17, Rev. 3. RLCA compared the design bases spectra as of November 1981 with those contained in the latest URS/Blume building reports. The spectra contained in DCM C-17 were found to be in agreement with the URS/Blume spectra with three exceptions for which EOI's were issued: These are:

- Auxiliary building NS spectra
- Intake structure
- Auxiliary building torsional combination method

RLCA next verified that all locations in the plant had specified design spectra. In this review they found seven locations for which spectra were not specified. These are listed on page 7 of the ITR. EOI's were issued for these.

Spectra used as input for particular design problems were compared with criteria spectra by RLCA. This comparison was performed by: locating support points for piping and/or equipment; determining the criteria spectra for that point from DCM C-17; and comparing that spectra with the spectra actually used in the design. Eleven samples were chosen for equipment verification and ten piping samples were selected. Eighteen EOI's were identified for the equipment sample and four EOI's were found for the piping samples.

3.0 EVALUATION

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The review conducted by RLCA was complete and would be expected to identify any errors which exist in the use of appropriate response spectra for equipment and piping design. It would be helpful to the reviewers of the report if the three spectra (Blume, docketed HOSGRI, and those used in design) referred to in the report would be more specifically identified, preferably in graphic and, if possible, digitized format.