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LEAR, G. E. PWR Project Directorate 1

SUBJECT: Forwards R562-N4, "Reinforced Masonry Wall Evaluation, Evaluation of Control Bldg Reinforced Walls," documenting results of elastic & inelastic analyses for selected masonry walls. Commitments re IE Bulletin 80-11 complete.

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Director of Nuclear Reactor Regulation
Attention: Mr. George E. Lear, Chief
PWR Project Directorate No. 1
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Seismic Masonry Wall Analyses
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Lear:

In RG&E's letter of November 6, 1985 regarding seismic analysis of safety-related reinforced masonry block walls in the control building, RG&E committed to provide the final analytical results for these walls by December 20, 1985.

Enclosed is Computech Report No. R562-N4, which documents the results of the elastic and inelastic analyses for selected masonry block walls at Ginna Station. These results indicate that there are significant margins of safety for all of the walls, as determined from the inelastic analyses of the selected "worst-case" walls. The margins of safety vary from between 76% for masonry strain ratios to 600% for steel strain ratios. Thus, it can be concluded that the reinforced block walls will be able to maintain their safety configuration following an SSE.

The seismic inputs used in these analyses were derived from the NRC "Senior Seismic Review Team" report, NUREG-CR/1821, as modified to correspond to the Ginna site-specific SSE ground response spectrum, as defined in NUREG/CR-1582, "Seismic Hazard Analysis", anchored at 0.17g. This spectrum was found acceptable for use in assessing safety margins for structures, systems and components at Ginna, as documented in the NRC Safety Evaluation Report for SEP Topic III-6, "Seismic Design Considerations", January 29, 1982.

A report documenting the Computech correlation study for San Onofre Nuclear Generating Station Unit No. 1 (SONGS-1) wall FB5, which was discussed with the NRC during a December 5, 1985 meeting, has also been prepared. Parts of that report are considered proprietary to Southern California Edison. That report will be submitted as soon as the appropriate application for withholding and affidavit are prepared. The submittal of these reports will conclude all RG&E seismic commitments resulting from IE Bulletin 80-11, "Masonry Wall Design".

Very truly yours,

Roger W. Kober

Roger W. Kober

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