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

Gentlemen:

Subject: Docket No. 50-206  
SEP Topic II-4.F  
Settlement of Structures and Buried Equipment  
San Onofre Nuclear Generating Station  
Unit 1

References A through G (see Enclosure 1) submitted information regarding the backfill soil conditions at San Onofre Unit 1. These submittals also described evaluations of the impact of these conditions on the plant and required corrective actions. NRC review of the backfill conditions was documented in References H and I (see Enclosure 1). Reference I also noted that a subsequent report addressing ongoing assessments was expected. The purpose of this letter is to provide additional information regarding SCE's evaluations of the backfill soil conditions.

During the current refueling outage there have been a number of modifications involving excavation and foundation work. This has provided additional opportunities to evaluate and define the backfill soil conditions at the site. The results of these most recent evaluations are documented in Enclosure 2, Addendum 4 to the Soil Backfill Conditions Report. Section 3 of Enclosure 2 provides an evaluation of the effect of the backfill soils on equipment foundations which were not previously evaluated in References A through G. This evaluation includes items which were identified in Reference I as "Part of long term seismic evaluation program." All corrective actions identified in Enclosure 2 will be completed during the current outage.

If you have any questions on this information, please let us know.

Very truly yours,

cc: F. R. Huey, USNRC Senior Resident Inspector, Units 1, 2 and 3  
R. Dudley, NRC Project Manager

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Enclosure 1

References

- A. Letter from K. P. Baskin (SCE) to D. M. Crutchfield (NRC) dated April 18, 1983, forwarding SCE Topic II-4.F Evaluation and Sections 1, 2 and 3 of Soil Backfill Conditions Report
- B. Letter from R. W. Krieger (SCE) to D. M. Crutchfield (NRC) dated September 1, 1983, forwarding Sections 4 and 5 and Addendum 1 of Soil Backfill Conditions Report
- C. Letter from R. W. Krieger (SCE) to D. M. Crutchfield (NRC) dated September 20, 1983 forwarding Addendum 2 to Soil Backfill Conditions Report and Crack Mapping and Settlement Evaluation Report
- D. Letter from M. O. Medford (SCE) to D. M. Crutchfield (NRC) dated November 28, 1983 forwarding Addendum 3 to Soil Backfill Conditions Report
- E. Letter from M. O. Medford (SCE) to D. M. Crutchfield (NRC) dated May 17, 1984 forwarding Additional Information for NRC Review of SEP Topic II-4.F
- F. Letter from M. O. Medford (SCE) to J. A. Zwolinski (NRC) dated September 24, 1985 forwarding Summary Reports of the Design and Evaluation of Various Grade Beams
- G. Letter from M. O. Medford (SCE) to G. E. Lear (NRC) dated March 27, 1986 forwarding Additional Information on Grade Beam Design
- H. Letter from John A. Zwolinski (NRC) to Kenneth P. Baskin (SCE) dated November 13, 1984 forwarding Safety Evaluation Report on SEP Topic II-4.F (Specifically Addressing the Seawall)
- I. Letter from John A. Zwolinski (NRC) to Kenneth P. Baskin (SCE) dated August 20, 1985 forwarding Safety Evaluation Report on SEP Topic II-4.F (Specifically Addressing Backfill Soil Conditions)

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