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October 27, 1978

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Mr. Robert W. Reid, Chief
Operating Reactors Branch No. 4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: Docket No. 50-133
License No. DPR-7

Dear Mr. Reid:

Enclosed are forty copies of a report entitled:

"Quarterly Status Report of Investigations and Modifications
Humboldt Bay Power Plant, Unit No. 3
July 1 - September 30, 1978
Report No. 19"

This report is submitted in response to Mr. Skovholt's
letter dated January 4, 1974.

Kindly acknowledge receipt of the above material on
the enclosed copy of this letter and return it to me in the
enclosed addressed envelope.

Very truly yours,

Philip A. Grew, Jr.

Enclosures

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D SKOVHOLT
W/ ENCL

PACIFIC GAS AND ELECTRIC COMPANY
DOCKET NO. 50-133

QUARTERLY STATUS REPORT OF INVESTIGATIONS AND MODIFICATIONS
HUMBOLDT BAY POWER PLANT, UNIT NO. 3
JULY 1 - SEPTEMBER 30, 1978
REPORT NO. 19

October 10, 1978

Geologic Investigations

Geologic investigations continue. Two Pitcher drill rigs, capable of depths to 1700 feet, and one Barnes drill rig, capable of depths to 3000 feet, are working in the field. To date, a total of 18 shallow borings (depth less than 1700 feet) and 3 deep borings (depth 1700-3000 feet) have been completed.

Work in progress includes additional borings, field mapping, sampling, age dating, and interpretation.

Seismologic Investigations

Operation of the 16-station microseismic network continues.

Seismic Design Review and Design of Seismic Modifications

Seismic analysis and design of seismic modifications are now complete, with the exception of modifications to the Unit 2 horizontal boiler restraints. The design of these restraints has been deferred pending resolution of the geologic issues.

Purchase and Installation of Seismic Modifications

Installation of seismic modifications is now complete, with the exception of the few items deferred. These include the Refueling Building crane rail modifications and the remaining Unit 2 structural modifications.