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 KNIGHTON, G.W. Licensing Branch 3

SUBJECT: Forwards "Wave Effects on Intake Structure" & "Investigation of Seawater Ingestion Into Auxiliary Saltwater Pump Room Due to Splash Runup During Design Flood Events at Diablo Canyon."

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January 19, 1983

Mr. George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing
Office of Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington DC 20555

Re: Docket No. 50-275, OL-DPR-76
Docket No. 50-323
Diablo Canyon Units 1 and 2
Breakwater Studies

Dear Mr. Knighton:

The enclosed reports complete PGandE's investigations of the potential consequences of degradation of the Diablo Canyon breakwater. These reports, which provide an analysis of the data compiled from model tests, are entitled:

1. "Effects of Wave Forces on the Intake Structure" by Edward Matsuda, January, 1983.
2. "Investigations of Seawater Ingestion into the Auxiliary Saltwater Pump Room Due to Splash Run-up During the Design Flood Events at Diablo Canyon" by Patrick J. Ryan, January, 1983.

PGandE believes that these reports, together with those submitted to the NRC Staff on July 1, 1982 and January 10, 1983, should permit resolution of the full power licensing matter identified both in Section 2.4 of Supplement 13 of NUREG-0675 (Safety Evaluation Report for Diablo Canyon Units 1 and 2) and at a meeting September 25, 1981 between the NRC Staff and PGandE.

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Mr. George W. Knighton

January 19, 1983
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From the results of the investigations, assuming that the entire breakwater is degraded to mean lower low water (MLLW), PGandE concludes that:

1. The intake structure, with minor modifications completed, is capable of withstanding the forces of waves resulting from the postulated design flooding events, thereby assuring continuous protection to the Auxiliary Saltwater (ASW) pumps.
2. The extended ASW pump ventilation shafts preclude the ingestion of seawater to the extent that the operation of the ASW pumps would not be impaired during the postulated design flooding events.
3. The probability of large vessels (greater than 250 tons) crossing the degraded breakwater and impacting the intake structure is acceptably low. With respect to the safety-related function of the ASW pumps, the impact of vessels less than 250 tons on the intake structure would be inconsequential.

Following the Staff's review of the consequences of breakwater degradation in relation to full power plant operation, PGandE plans to submit a request for an amendment to the Technical Specifications which will define surveillance requirements and limiting conditions for operation related to the breakwater.

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

Very truly yours,

Philip A. Grene, Jr.

Enclosures

cc w/encls: Service List

