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Regulatory Docket File

PACIFIC GAS AND ELECTRIC COMPANY

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October 21, 1975

Mr. Olan D. Parr, Chief
Light Water Reactors
Project Branch 1-3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: Dockets

Dockets 50-275-OL 50-323-OL

Diablo Canyon Site Units 1 and 2

Dear Mr. Parr:

Your letter dated July 11, 1975 requested additional information concerning protection against tornado-generated missiles at Diablo Canyon. We have investigated each of the areas which your letter identified requiring further review to determine the need, feasibility, and estimated cost of design modifications which would provide additional protection from tornado-generated missiles. The results of this investigation are as follows:

1. Emergency Power System - Turbine Building Vital 4.16 KV Switchgear Area

Additional information concerning protection against tornado-generated missiles for emergency power system components in this area is provided in FSAR Pages 3.3-9, 3.3-17, and 3.3-18, as submitted in Amendment 36 to our application. While tornado-generated missiles could penetrate the turbine building walls in this area, possibly damaging components of the emergency power system, it is unlikely that such damage would affect the safe shutdown capability of the plant.

Plant modifications to provide additional protection are feasible, but the work involved would be extensive and costly. In estimating the cost of these modifications we have assumed that the design should preclude any possibility of damage to

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emergency power system components from missiles generated by a tornado with characteristics as given by Regulatory Guide 1.76. For Diablo Canyon Units 1 and 2 we estimate the cost of these modifications to be approximately \$470,000.

The results of the tornado capability review for Diablo Cany on, as presented in FSAR Section 3.3.2, show that the occurrence of a postulated tornado will not cause a loss of coolant accident, impair containment integrity, result in radioactive releases greater than those resulting from the Condition II faults analyzed in FSAR Chapter 15, and would not be expected to affect the safe shutdown capability of the plant.

In view of the low probability of tornado occurrence at Diablo Canyon and the limited unprotected exposure of the vital 4.16 KV switchgear area to tornado-generated missiles, we believe that the risk of tornado missile damage which would affect the safe shutdown capability of the plant is negligible. Accordingly, we do not believe that the cost of plant modifications can be justified as providing substantial, additional protection for the public health and safety.

2. Tornado Missile Barriers for Diesel Generator Louvers

The design of the tornado missile barriers for diesel generator louvers has been revised to provide additional protection from small missiles. The revised design is shown in FSAR Figure 3.5-2 (Sheets 1 and 2), as submitted in Amendment 33 to our application. The cost of the tornado missile barriers for diesel generator louvers, including the design modification to provide additional protection from small missiles, is approximately \$230,000.

3. Component Cooling Water System

We have investigated further the consequences of tornadogenerated missile damage to component cooling water surge tanks and piping. Additional information is given in FSAR 3.3-11, 3.3-12 and FSAR Table 3.3-3 (Sheets 1-3), as submitted in Amendment 33 to our application. This investigation shows that the component cooling water system would continue to operate satisfactorily, even in the event of damage from tornado-generated missiles.

//truly yours

Philip A. Crane, Jr.

PAC:at. cc: ASLB

All parties

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