



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

September 8, 1993

Docket Nos. 50-275
and 50-323

Mr. Gregory M. Rueger
Nuclear Power Generation, B14A
Pacific Gas and Electric Company
77 Beale Street, Room 1451
P.O. Box 770000
San Francisco, California 94177

Dear Mr. Rueger:

SUBJECT: POTENTIAL FOR INADEQUATE ELECTRICAL ISOLATION IN CERTAIN
120-V AC POWER CIRCUITS FOR DIABLO CANYON POWER PLANT,
UNIT NO. 1 (TAC NO. M86227) AND 2 (TAC NO. M86228)

By letter dated April 6, 1993, Pacific Gas and Electric Company (PG&E) submitted an interim report on the potential for inadequate electrical isolation in certain 120-V ac power circuits for PG&E Class IA and IB instrumentation. PG&E established a Review Project for Diablo Canyon Power Plant (DCPP) to review the design of the post accident monitoring instrumentation to determine if the instrumentation attributes met those specified in Regulatory Guide (RG) 1.97. During these reviews, the licensee found that parts of the safety-related instrumentation had the potential to deviate from the single-failure criterion because of potentially inadequate electrical isolation in certain 120-V ac power circuits.

We understand your review effort is continuing and the interim report you submitted was to ensure that the format and text of the report are acceptable. We have reviewed your interim report and have the following comments:

- Of the credible events (i.e., seismic activity, fire, harsh post accident environments, flooding, tornadoes and tsunamis) that could cause the postulated common-mode failure (electrical shorting) in the unisolated devices, PG&E considered only seismic events and fire protection. The interim report did not adequately explain why other credible events were not considered.
- The analyses of evaluations of seismic events and fire protection in the interim report did not provide adequate detail to enable the reviewer to reach the same conclusion as that of PG&E. In particular, the final report should have more data of the seismic evaluations that confirmed single-failure tolerance of the identified circuit pairs and why, in the event of a postulated fire, absence of electrical isolation would not impact the availability of Appendix R 120-V ac circuits.

The interim report indicated the 120-V ac power circuits analyzed so far did not deviate from the single-failure criterion. We understand that you will

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complete your review and submit, to the staff, the final report for the electrical isolation issue by the end of 1994. The final report should provide sufficient detail for the staff to complete an in-depth review. This action closes TAC Nos. M86227 and M86228.

Sincerely,

Original signed by

Sheri R. Peterson, Project Manager
Project Directorate V
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

cc: See next page

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DATE	9/8/93	9/8/93	9/8/93	9/8/93

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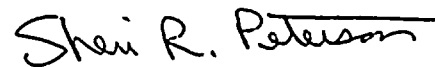
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Sincerely,



Sheri R. Peterson, Project Manager
Project Directorate V
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

cc: See next page



Mr. Gregory M. Rueger
Pacific Gas and Electric Company

Diablo Canyon

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