



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 29, 1993

Docket No. 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: SAFETY EVALUATION OF PACIFIC GAS AND ELECTRIC COMPANY'S (PG&E'S) COMPLETION OF PREOPERATIONAL ENDURANCE TESTING OF THE SIXTH EMERGENCY DIESEL GENERATOR (EDG) AT DIABLO CANYON POWER PLANT UNIT 2 (TAC NO. M82775)

By letter dated February 12, 1993, Pacific Gas and Electric Company (PG&E) documented the successful completion of the preoperational endurance testing of the 2-3 emergency diesel generator (EDG) and stated PG&E's basis for resolution of the open items and issues described in NRC Inspection Report (IR) 50-323/92-201. The open items and issues were, in part, identified during the NRC's earliest inspection of PG&E (IR 50-323/91-202) and the inspection of PG&E's supplier of the power generator (NEI Peebles-Electric Products, Inc. (P-EP), of Cleveland, Ohio (IR 99900772/91-01), and NEI Peebles Limited, Peebles Electrical Machines (PEM), of Edinburgh, Scotland (IR 99901065/91-01)).

As stated in IR 50-323/92-01, closure of the issues identified during the inspections of PG&E, P-EP, and PEM was pending PG&E's successful completion of its compensatory actions taken as a result of the inspection findings. Specifically, the actions included post-modification tests and inspections that would determine the adequacy of the 2-3 EDG's design, materials, and manufacturing processes. These tests and inspections are expected to resolve the team's remaining concerns by evaluating the EDG during operating and transient conditions necessary to detect problems, and by subjecting certain components of the EDG to operating cycles which would likely result in premature cyclic fatigue failure if defects were present.

In the February 12, 1993 letter, PG&E stated that the open items identified in the summary section of IR 50-323/92-201, and associated with final evaluations and documentation for the Spare and Replacement Parts Evaluations (RPEs) for the diesel engine (M-6602) and the power generator (E-7505) are complete and have been incorporated into the RPEs. PG&E also stated in its letter that the applicable Action Requests were complete, and the specific technical issues identified during these inspections were resolved by the successful completion of its compensatory actions taken as a result of the inspection findings and the post-modification tests. According to PG&E, the post-modification tests

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demonstrated the adequacy of the 2-3 EDG's design, materials, and manufacturing processes. Therefore, PG&E has successfully demonstrated reasonable assurance that the 2-3 EDG is capable of performing its intended safety function.

The staff has also evaluated the malfunctions that occurred during performance of the endurance testing and has determined that these malfunctions did not affect qualification of the EDG. Based on the staff's evaluation of the endurance testing and subsequent inspection results, which included visual and fiberscope inspections as well as disassembly and inspection of four power assemblies of the 2-3 EDG at DCP Unit 2, we conclude that the endurance testing and associated post-test inspections have been completed in a satisfactory manner. Our safety evaluation is enclosed.

If you have any questions regarding this issue, please contact me.

Sincerely,

Original signed by

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

Enclosure:
Safety Evaluation

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If you have any questions regarding this issue, please contact me.

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Sheri R. Peterson, Project Manager
Project Directorate V
Division of Reactor Projects III/IV/V
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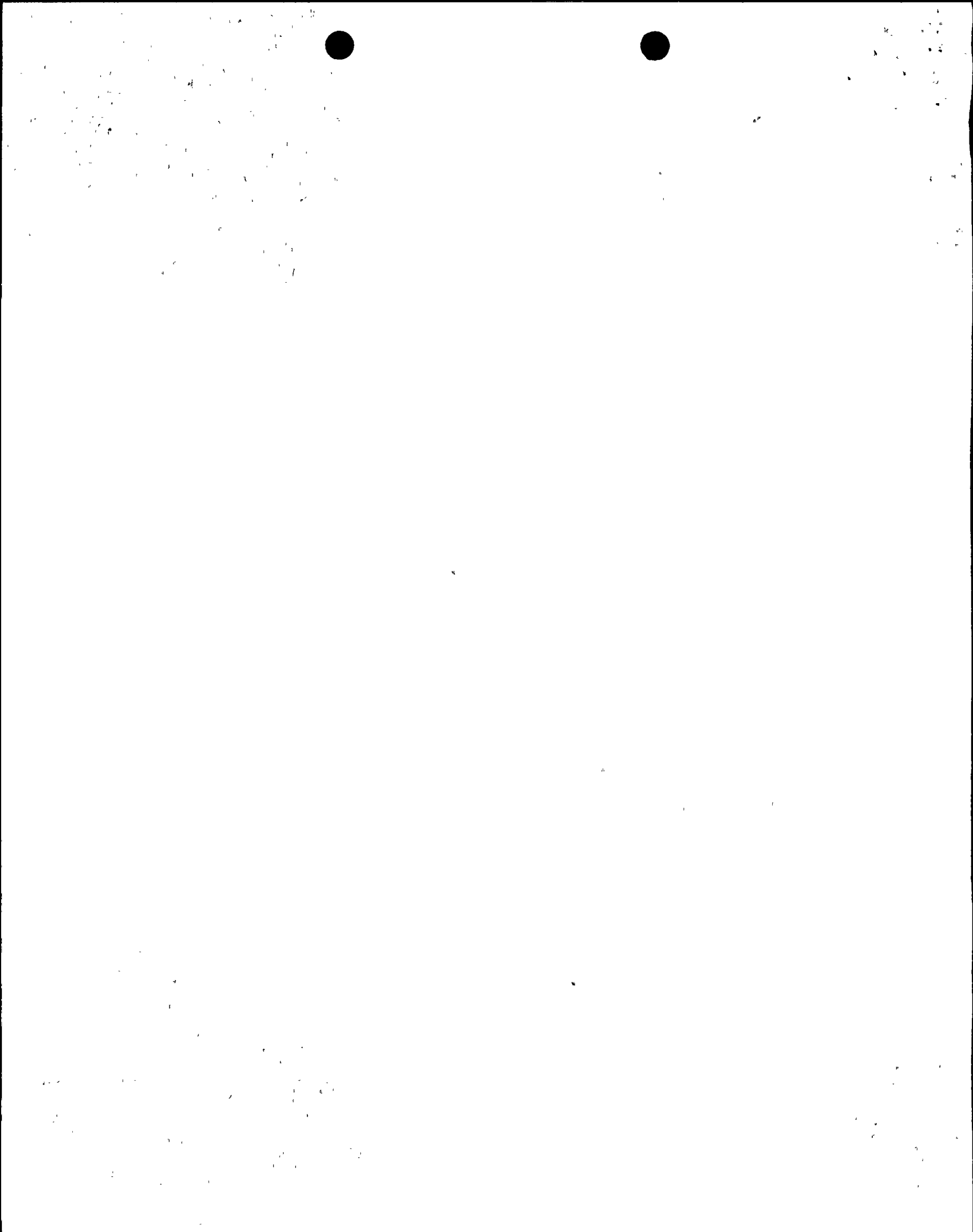
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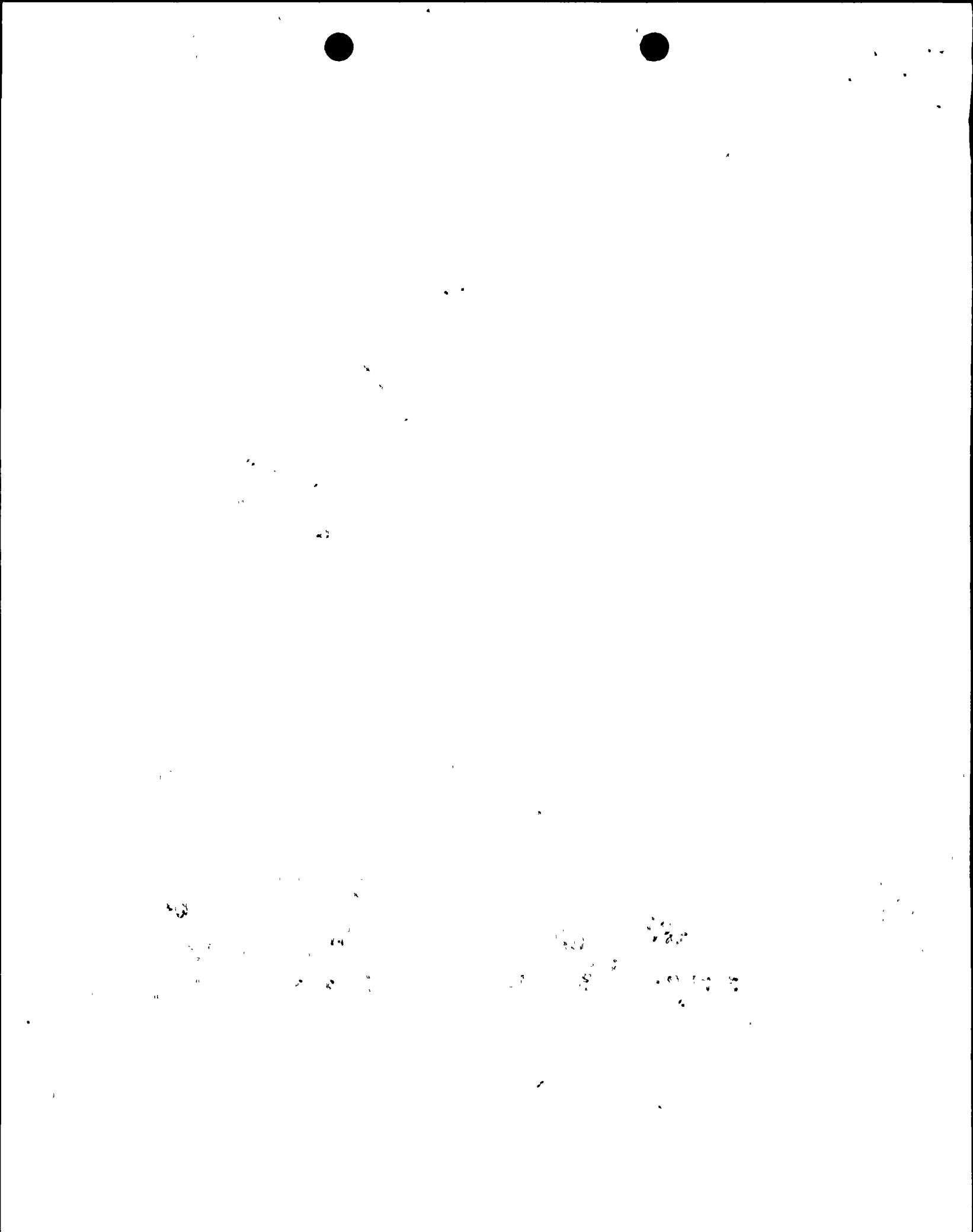
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Pacific Gas and Electric Company

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