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 50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Ga 05000323
 AUTH. NAME AUTHOR AFFILIATION
 SHIFFER, J. D. Pacific Gas & Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Special rept: on 871004, high temp alarm setpoints exceeded in several 480-Volt bus areas in Units 1 & 2 & battery areas in Unit 1 due to high ambient temps resulting from unusual weather pattern. Proper levels returned on 871006.

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	LPDR	2 2	NRC PDR	1 1
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PACIFIC GAS AND ELECTRIC COMPANY

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November 3, 1987

JAMES D. SHIFFER
VICE PRESIDENT
NUCLEAR POWER GENERATION

PG&E Letter No.: DCL-87-262

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington D.C. 20555

Re: Docket No. 50-275, OL-DPR-80
Docket No. 50-323, OL-DPR-82
Diablo Canyon Units 1 and 2
Special Report (SR) 87-05, High Vital Area Room Temperatures

Gentlemen:

In accordance with the requirements of Diablo Canyon Technical Specifications 6.9.2. and 3.7.11 Action a., this Special Report is being submitted to provide a record of the cumulative time and the amount by which temperature limits were exceeded for more than eight hours in the affected areas listed in Technical Specification 3.7.11, Table 3.7-5.

On October 4, 1987, at approximately 2045 PDT, high ambient temperatures resulting from an unusual weather pattern in central California caused high temperature alarm setpoints to be exceeded in several 480 volt bus areas in Units 1 and 2, and the battery rooms on Unit 1. In an attempt to lessen the severity of the high temperatures, electrical loads were shifted. Portable fans were installed to cool high temperature rooms.

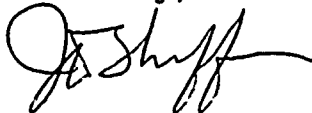
On October 6, 1987, at approximately 1736 PDT, ambient temperatures had decreased to allow the affected areas to fall below the temperature limits listed in Table 3.7-5 of the Technical Specifications.

As required by Technical Specification 3.7.11, Action a., enclosed is a record of the cumulative time and the amount by which the temperatures in the affected areas exceeded the limits, and an analysis justifying the continued operability of the affected equipment. The analysis concludes that there was no adverse impact on the equipment within the affected areas.

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

8711090275 871103
PDR ADOCK 05000275
S PDR

Sincerely,



Enclosure

cc: J. B. Martin B. H. Vogler
M. M. Mendonca CPUC
P. P. Narbut Diablo Distribution
B. Norton

1766S/0052K/DY/1842

IEU
11



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ENCLOSURE

In accordance with Technical Specification 3.7.11, Action a., this table shows the record of the cumulative time and the amount by which the temperature in the affected areas exceeded the limit. All temperature values are expressed in degrees Fahrenheit (F).

AREA	CUMULATIVE TIME	TABLE 3.7-5 TEMP LIMIT (less than or equal to)	HIGHEST TEMPERATURE	AMOUNT LIMIT EXCEEDED
Unit 1				
480 V. bus F area	41 hr, 19 min	103	105	2
480 V. bus G area	41 hr, 19 min	103	108	5
Battery No. 1 room	42 hr, 46 min	89	91	2
Battery No. 3 room	43 hr, 36 min	89	92	3
Unit 2				
480 V bus G area	26 hr. 04 min	103	112	9
480 V bus H area	18 hr. 46 min	103	105	2

ANALYSIS

The effect of high temperature on electrical equipment in the rooms identified above is limited to accelerated aging and a reduction in the trip point for thermal overload relays.

Based on the results of an Arrhenius analysis, the effect of accelerated aging due to the increased temperature has shown to be negligible because of the short duration of the overtemperature condition and the minimal temperature excursion. Conversely, when the rooms are cooler than their temperature limit, equipment life is extended.

High ambient temperatures on thermal overload relays could reduce the relay trip point. However, manufacturers' data on the effect of ambient temperatures on overload relays show that the overload relays will continue to function up to 158 degrees F and that they are relatively unaffected at 122 degrees F. These data indicate that the overload relays have not been adversely affected by the recorded temperatures of this event.



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November 2, 1987

DOCKET NO(S). 50-275/323
 Mr. J. D. Shiffer, Vice President
 Nuclear Power Generation
 c/o Nuclear Power Generation, Licensing
 Pacific Gas and Electric Company
 77 Beale Street, Room 1451
 San Francisco, CA 94106

SUBJECT: PACIFIC GAS & ELECTRIC COMPANY - DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 & 2

The following documents concerning our review of the subject facility are transmitted for your information.

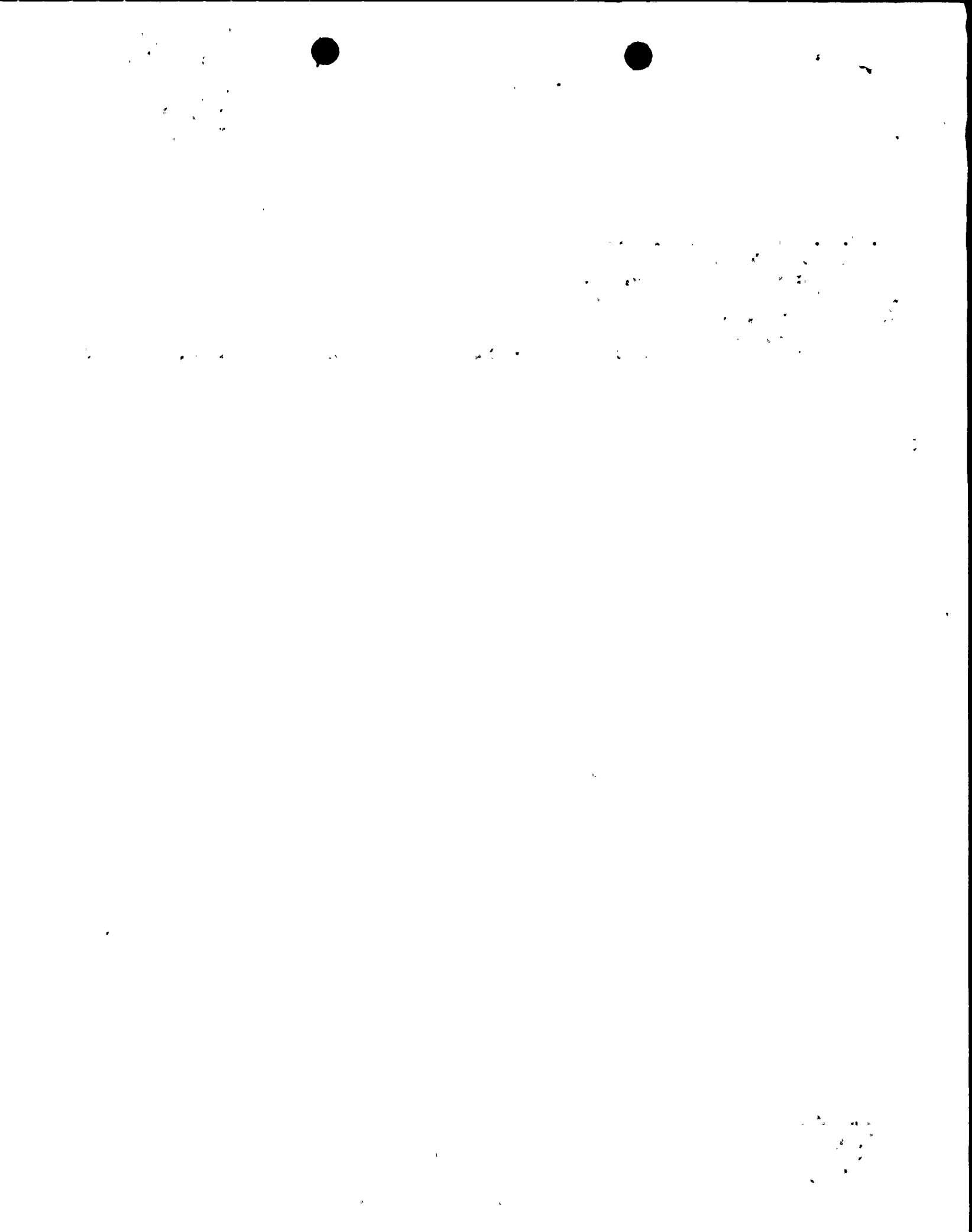
- Notice of Receipt of Application, dated _____.
- Draft/Final Environmental Statement, dated _____.
- Notice of Availability of Draft/Final Environmental Statement, dated _____.
- Safety Evaluation Report, or Supplement No. _____ dated _____.
- Environmental Assessment and Finding of No Significant Impact, dated _____.
- Notice of Consideration of Issuance of Facility Operating License or Amendment to Facility Operating License, dated _____.
- Bi-Weekly Notice; Applications and Amendments to Operating Licenses Involving No Significant Hazards Considerations, dated 10/21/87 [see page(s)] 39304.
- Exemption, dated _____.
- Construction Permit No. CPPR-_____, Amendment No. _____ dated _____.
- Facility Operating License No. _____, Amendment No. _____ dated _____.
- Order Extending Construction Completion Date, dated _____.
- Monthly Operating Report for _____ transmitted by letter dated _____.
- Annual/Semi-Annual Report- _____
 _____ transmitted by letter dated _____.

Office of Nuclear Reactor Regulation

Enclosures:
 As stated

CC: See next page

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Diablo Canyon

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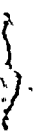
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- 2 -

Diablo Canyon

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