

Pacific Gas and Electric Company

77 Beale Street
San Francisco, CA 94106
415/972-7000
415/973-4684

James D. Shiffer
Senior Vice President and
General Manager
Nuclear Power Generation

April 24, 1990

PG&E Letter No. DCL-90-109



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

Re: Docket No. 50-323, OL-DPR-82
Diablo Canyon Unit 2
Core Operating Limits Report
Unit 2 Cycle 4

Gentlemen:

In accordance with paragraph 6.9.1.8.a of the Diablo Canyon Power Plant Technical Specifications, PG&E hereby submits the Core Operating Limits Report (COLR) for Unit 2 Cycle 4 as the enclosure to this letter.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "J. D. Shiffer". The signature is written in dark ink on a light background.

J. D. Shiffer

cc: A. P. Hodgdon
J. B. Martin
M. M. Mendonca
P. P. Narbut
H. Rood
CPUC
Diablo Distribution

Enclosure

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ENCLOSURE

CORE OPERATING LIMITS REPORT

COLR 2-4 for Diablo Canyon Unit 2 Cycle 4

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

TITLE: CORE OPERATING LIMITS REPORT
COLR FOR DIABLO CANYON UNIT 2 CYCLE 4

NUMBER
REVISION
PAGE
UNIT

COLR 2-4
0
1 OF 7

APPROVED

2

**** PROCEDURE CLASSIFICATION - QUALITY RELATED ****
**** THIS PROCEDURE CONTAINS GRAPHICS. REFER TO CONTROLLED HARD COPY. ****

1.0

CORE OPERATING LIMITS REPORT

This Core Operating Limits Report (COLR) for Diablo Canyon Unit 2 Cycle 4 has been prepared in accordance with the requirements of Technical Specification 6.9.1.8.

The Technical Specifications affected by this report are listed below:

- 3/4.1.3.5
- 3/4.1.3.6
- 3/4.2.1
- 3/4.2.2

Shutdown Rod Insertion Limit
Control Rod Insertion Limits
Axial Flux Difference
Heat Flux Hot Channel Factor - $FQ(z)$
(Surveillance Requirements only)

2.0

OPERATING LIMITS

The cycle-specific parameter limits for the specifications listed in Section 1.0 are presented in the following subsections. These limits have been developed using the NRC-approved methodologies specified in Technical Specification 6.9.1.8.

2.1

Shutdown Rod Insertion Limit

2.1.1 The shutdown rods shall be withdrawn to at least 225 steps. (Specification 3/4.1.3.5)

Control Rod Insertion Limits

2.2.1 The control rod banks shall be limited in physical insertion as shown in Figure 1. (Specification 3/4.1.3.6)

Axial Flux Difference

2.3.1 The AXIAL FLUX DIFFERENCE (AFD) Limits for Unit 2 Cycle 4 are provided in Figure 2. (Specification 3/4.2.1)