

# CATEGORY 1

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50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Ga      05000323

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SUBJECT: Monthly operating repts for April 1996 for DCNPP.W/960515  
ltr.

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Pacific Gas and Electric Company

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Warren H. Fujimoto  
Vice President—Diablo Canyon  
Operations and Plant Manager

May 15, 1996



PG&E Letter DCL-96-110

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
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Docket No. 50-275, DPR-80  
Docket No. 50-323, DPR-82  
Diablo Canyon Units 1 and 2  
Monthly Operating Report for April 1996

Dear Commissioners and Staff:

Enclosed are the monthly operating report forms for Diablo Canyon Power Plant Units 1 and 2 for April 1996. This report is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Sincerely,

A handwritten signature in cursive script, appearing to read 'W. Fujimoto'. The signature is written in dark ink and is positioned above the printed name.

Warren H. Fujimoto

Enclosures

WEC/1713

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May 15, 1996

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May 15, 1996  
Page 3

bcc R. D. Glynn  
G. M. Rueger  
NRC Resident

77/B32  
77/B14A  
104/5/538



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MONTHLY NARRATIVE REPORT  
OF OPERATION  
AND MAJOR MAINTENANCE EXPERIENCE

The monthly report describes the operating and major maintenance experience for the month of April 1996. This narrative report was prepared by the plant staff and is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Narrative of Daily Significant Plant Events

- April 1, 1996: Units 1 and 2 started the month in Mode 1 (Power Operation) at 100 percent power.
- April 6, 1996: In preparation for the seventh refueling outage (2R7), Unit 2 separated from the grid and entered Mode 2 (Startup) at 0232 PST. Unit 2 entered Mode 3 (Hot Standby) at 0327 PST, reactor trip was initiated at 0350 PST, and Mode 4 (Hot Standby) was entered at 1642 PST.
- April 9, 1996: Unit 2 entered Mode 5 (Cold Shutdown) at 0455 PDT.
- April 12, 1996: At 1730 PDT, a 10 CFR 50.72(b)(1)(ii)(B) non-emergency 1-hour notification was made to the NRC due to main steam safety valves on Unit 1 leads 1 and 2 being outside the +/- 3 percent acceptance criteria. (Reference LER 1-96-003-00.) Preliminary analysis of the data indicated that the condition constituted a condition outside the design basis of the plant.
- April 13, 1996: Unit 2 entered Mode 6 (Refueling) at 0308 PDT.
- April 17, 1996: Unit 2 began core off-load at 0518 PDT.
- April 19, 1996: Unit 2 completed core off-load at 1215 PDT.
- April 26, 1996: At 1453 PDT, a 10 CFR 50.72(b)(2)(iii)(C) non-emergency 4-hour notification was made to the NRC due to analysis results of eddy current data on Steam Generator 2-2 indicating greater than .1 percent of the total tubes inspected were defective.
- April 30, 1996: Unit 1 ended the month in Mode 1 at 100 percent power. Unit 2 ended the month with the core off-loaded, continuing 2R7.



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### Summary of Plant Operating Characteristics, Power Reductions, and Unit Shutdowns

Unit 1 operated this month with a unit availability factor of 100 percent and a unit capacity factor (using MDC Net) of 100.98 percent. Unit 1 did not reduce power by more than 20 percent this month.

Unit 2 operated this month with a unit availability factor of 17.04 percent and a unit capacity factor (using MDC Net) of 15.99 percent. Unit 2 reduced power from 100 percent to 0 percent power to begin 2R7.

### Summary of Significant Safety-Related Maintenance

There was no significant maintenance on Unit 1 during the month of April 1996.

Significant safety-related maintenance on Unit 2 consisted of:

Replacement of Centrifugal Charging Pump 2-1. The old pump casing was carbon steel with a stainless steel cladding. The new pump casing is all stainless steel.

Replacement of vital Battery 2-2. New battery has higher amp-hour rating.

Replacement of vital 4 kV breakers. The new breakers are gas-filled for arc quenching.

Replacement of one rod in one fuel assembly that was identified as leaking.

### Actuation of Steam Generator Safety or Pressurizer Power Operated Relief Valves

There were no challenges to the steam generator safety or pressurizer power-operated relief valves.



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## OPERATING DATA REPORT

DOCKET NO.	50-275
UNIT	1
DATE	05/15/96
COMPLETED BY	T. Eubank/W. E. Coley
TELEPHONE	(805) 545-4867/4997

### OPERATING STATUS

1. Unit Name:	Diablo Canyon Unit 1
2. Reporting Period:	April 1996
3. Licensed Thermal Power (MWt):	3338
4. Nameplate Rating (Gross MWe):	1137
5. Design Electrical Rating (Net MWe):	1086
6. Maximum Dependable Capacity (Gross MWe):	1124
7. Maximum Dependable Capacity (Net MWe):	1073.4
8. If changes occur in capacity ratings (items 3 through 7) since last report, give reasons:	N/A
9. Power level to which restricted, if any (Net MWe):	N/A
10. Reasons for restrictions, if any:	N/A

	<u>This Month</u>	<u>YTD</u>	<u>Cumulative</u>
11. Hours In Reporting Period	719.0	2903.0	96285.3
12. Number Of Hours Reactor Was Critical	719.0	2809.3	81360.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	719.0	2804.2	80315.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2399269	9214477	255524574
17. Gross Electrical Energy Generated (MWH)	816000	3130200	85999332
18. Net Electrical Energy Generated (MWH)	779352	2987097	81620548
19. Unit Service Factor	100.00	96.60	83.41
20. Unit Availability Factor	100.00	96.60	83.41
21. Unit Capacity Factor (Using MDC Net)	100.98	95.86	78.97
22. Unit Capacity Factor (Using DER Net)	99.81	94.75	78.06
23. Unit Forced Outage Rate	0.00	2.60	3.49
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):		N/A	
25. If Shut Down At End Of Report Period, Estimate Date of Startup:		N/A	



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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-275  
UNIT 1  
DATE 05/15/96  
COMPLETED BY T. Eubank/W. E. Coley  
TELEPHONE (805) 545-4867/4997

April 1996

DAY

AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	1082
2	1086
3	1082
4	1081
5	1083
6	1082
7	1079
8	1082
9	1086
10	1082
11	1086
12	1082
13	1086
14	1086
15	1081
16	1081
17	1082
18	1081
19	1086
20	1082
21	1086
22	1082
23	1081
24	1086
25	1086
26	1083
27	1089
28	1085
29	1093
30	1085

The average monthly Electrical Power Level for April 1996 = 1083.93 MWe-Net



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## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-275  
 UNIT 1  
 DATE 05/15/96  
 COMPLETED BY W. E. Coley  
 TELEPHONE (805) 545-4997

REPORT MONTH: April 1996

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTDOWN <sup>3</sup>	LICENSEE EVENT REPORT	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
None									

- 1  
Type:  
F-Forced  
S-Scheduled
- 2  
Reason:  
A-Equipment Failure (Explain)  
B-Maintenance or Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training & License Examination  
F- Administrative  
G-Operational Error (Explain)  
H-Other (Explain)

- 3  
Method:  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Continuation from previous month  
5-Power reduction  
6-Other

- 4  
EIIS Systems List, Table 1

- 5  
IEEE Std. 803A-1983, "IEEE Recommended Practice for Unique Identification in Power Plants and Related Facilities - Table 2"



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## OPERATING DATA REPORT

DOCKET NO.	50-323
UNIT	2
DATE	05/15/96
COMPLETED BY	T. Eubank/W. E. Coley
TELEPHONE	(805) 545-4867/4997

### OPERATING STATUS

- |     |   |                      |
|-----|---|----------------------|
| 1.  | Unit Name:  | Diablo Canyon Unit 2 |
| 2.  | Reporting Period:   | April 1996           |
|     | Licensed Thermal Power (MWt):   | 3411                 |
| 4.  | Nameplate Rating (Gross MWe):   | 1164                 |
| 5.  | Design Electrical Rating (Net MWe):   | 1119                 |
| 6.  | Maximum Dependable Capacity (Gross MWe):  | 1137                 |
| 7.  | Maximum Dependable Capacity (Net MWe):  | 1087                 |
| 8.  | If changes occur in capacity ratings (items 3 through 7) since last report, give reasons: | N/A                  |
| 9.  | Power level to which restricted, if any (Net MWe):  | N/A                  |
| 10. | Reasons for restrictions, if any:   | N/A                  |

		<u>This Month</u>	<u>YTD</u>	<u>Cumulative</u>
11.	Hours In Reporting Period	719.0	2903.0	888444.0
12.	Number Of Hours Reactor Was Critical	123.5	2307.5.0	76579.6
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	122.5	2306.5	75508.0
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	405579	7849783	248424766
17.	Gross Electrical Energy Generated (MWH)	136522	2602092	82652822
18.	Net Electrical Energy Generated (MWH)	124999	2477601	78616495
19.	Unit Service Factor	17.04	79.45	84.99
20.	Unit Availability Factor	17.04	79.45	84.99
21.	Unit Capacity Factor (Using MDC Net)	15.99	78.52	81.51
22.	Unit Capacity Factor (Using DER Net)	15.54	76.27	79.08
23.	Unit Forced Outage Rate	0.00	0.00	4.10

24. Shutdowns Scheduled Over Next 6 Months  
 (Type, Date, and Duration of Each): Seventh refueling outage commenced April 6, 1996.
25. If Shut Down At End Of Report Period, Estimate Date of Startup: May 19, 1996



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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-323  
UNIT 2  
DATE 05/15/96  
COMPLETED BY T. Eubank/W. E. Coley  
TELEPHONE (805) 545-4867/4997

April 1996

DAY

AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	1090
2	1090
3	1090
4	1090
5	1049
6	-11
7	-33
8	-27
9	-18
10	-16
11	-7
12	-6
13	-5
14	-5
15	-5
16	-5
17	-5
18	-4
19	-4
20	-3
21	-3
22	-4
23	-4
24	-5
25	-4
26	-5
27	-6
28	-6
29	-6
30	-4

The average monthly Electrical Power Level for April 1996 = 173.56 MWe-Net



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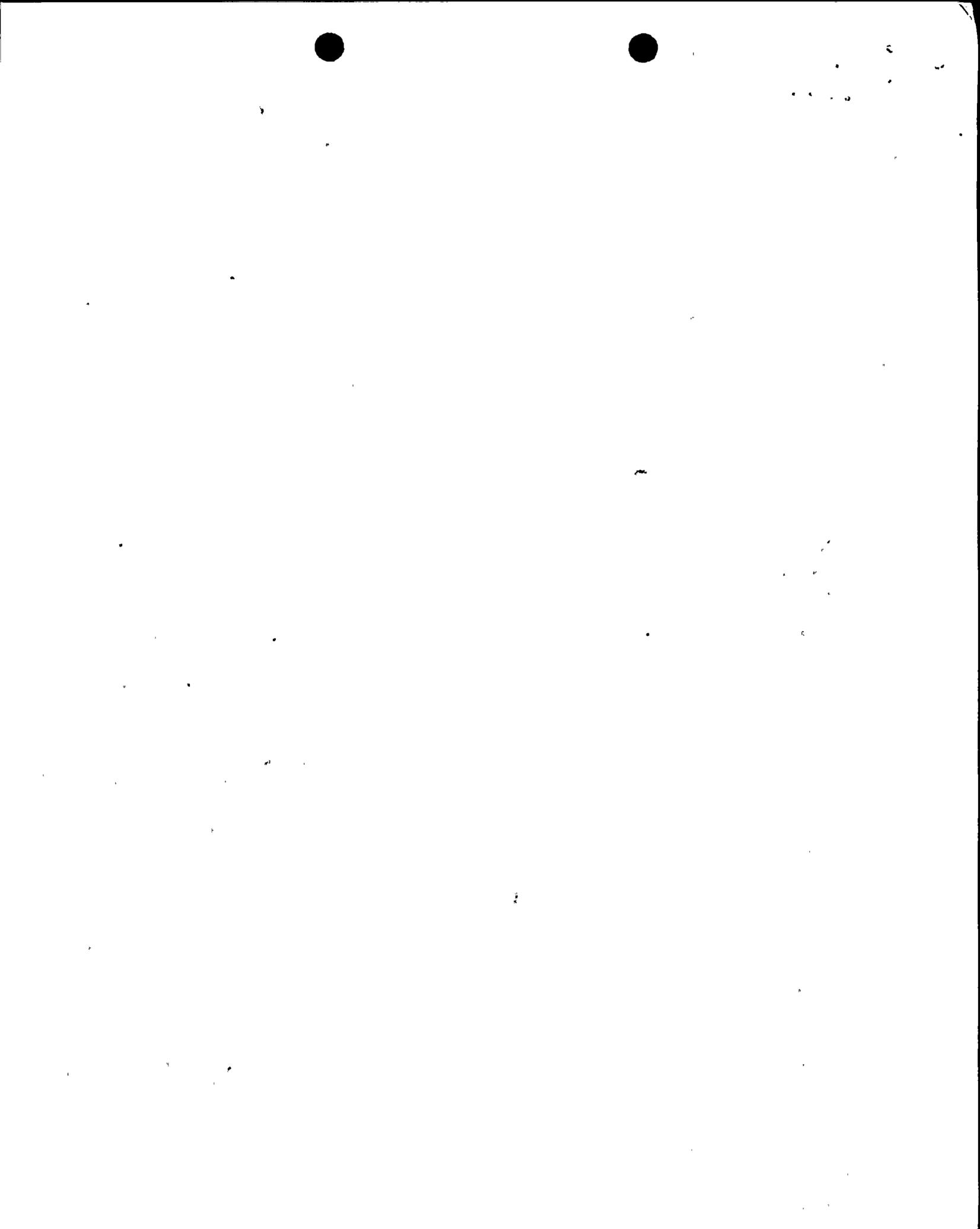
## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-323  
 UNIT 2  
 DATE 05/15/96  
 COMPLETED BY W. E. Coley  
 TELEPHONE (805) 545-4997

REPORT MONTH: April 1996

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTDOWN <sup>3</sup>	LICENSEE EVENT REPORT	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	04/06/96	S	596.5	C	5	N/A	N/A	N/A	Unit 2 reduced power, separated from the grid and entered the scheduled seventh refueling outage

- |   |   |   |  |  |
|---|---|---|--|--|
| <p>1<br/>Type:<br/>F-Forced<br/>S-Scheduled</p> | <p>2<br/>Reason:<br/>A-Equipment Failure (Explain)<br/>B-Maintenance or Test<br/>C-Refueling<br/>D-Regulatory Restriction<br/>E-Operator Training &amp; License Examination<br/>F- Administrative<br/>G-Operational Error (Explain)<br/>H-Other (Explain)</p> | <p>3<br/>Method:<br/>1-Manual<br/>2-Manual Scram<br/>3-Automatic Scram<br/>4-Continuation from previous month<br/>5-Power reduction<br/>6-Other</p> | <p>4<br/>EIS Systems List, Table 1</p> | <p>5<br/>IEEE Std. 803A-1983, "IEEE Recommended Practice for Unique Identification in Power Plants and Related Facilities - Table 2"</p> |
|---|---|---|--|--|



## REFUELING INFORMATION REQUEST

DOCKET NO. 50-275  
UNIT 1  
DATE 05/15/96  
COMPLETED BY D. Farrer/W. E. Coley  
TELEPHONE (805) 545-4438/4997

1. Name of facility: Diablo Canyon Unit 1
2. Scheduled date for next refueling shutdown: April 5, 1997
3. Scheduled date for restart following refueling: May 7, 1997
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? If answer is yes, what, in general, will there be? If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee (PSRC) to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)? If no such review has taken place, when is it scheduled?

No. The PSRC reviewed and approved the cycle 8 core reload on December 6, 1995.

5. Scheduled date(s) for submitting proposed licensing action and supporting information: N/A
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures: N/A
7. As of April 30, 1996, the number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool were:  

(a)	193	(b)	548
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8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:  

Present	1324	Increase size by	0
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9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity: 2006 (Loss of full core offload capability).







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