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SUBJECT: Monthly operating	rep ts for S	ept 1994 for Diabl	o Canyon		l
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Pacific Gas and Electric Company

Diablo Canyon Power Plant P.O. Box 56 Avila Beach, CA 93424 805/545-6000 Warren H. Fujimoto Vice President–Diablo Canyon Operations and Plant Manager

October 7, 1994

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PG&E Letter DCL-94-222

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

Docket No. 50-275, DPR-80 Docket No. 50-323, DPR-82 Diablo Canyon Units 1 and 2 Monthly Operating Report for September 1994

Gentlemen:

Enclosed are the monthly operating report forms for Diablo Canyon Units 1 and 2 for September 1994. This report is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Sincerely,

Warren H. Fujimoto

Enclosures

ddm/1713

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ADOC

PDR

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MONTHLY NARRATIVE REPORT OF OPERATION AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of September 1994. 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

On September 1, 1994:	Unit 1 and Unit 2 started the month in Mode 1 (Power Operation) at 100% power.
On September 1, 1994:	A 10CFR50.72(b)(2)(iii)(C) four-hour, non-emergency report was made regarding inadequate overcurrent protection of containment electrical penetrations. For more information see Licensee Event Report (LER) 1-94-019.
On September 23, 1994:	Unit 2 decreased reactor power from 100% to minimum turbine load in preparation to separate from the transmission grid and begin the sixth refueling outage.
On September 24, 1994:	Unit 2 separated the main generator from the transmission grid, reduced reactor power entering Mode 2 (Startup) and initiated a manual reactor trip entering Mode 3 (Hot Standby). Unit 2 reactor cooldown was initiated entering Mode 4 (Hot Shutdown) and temperature decreased entering Mode 5 (Cold Shutdown).
On September 26, 1994:	Unit 2 entered Mode 6 (Refueling) for the sixth refueling outage.
On September 27, 1994:	Unit 2 initiated fuel removal from the reactor core.
On September 29, 1994:	Unit 2 completed reactor core removal with all fuel transferred to the spent fuel pool.
On September 30, 1994:	Unit 1 ended the month in Mode 1 (Power Operation) at 100% power. Unit 2 ended the month in Mode 6 (Refueling) with the reactor defueled.

Summary of Plant Operating Characteristics, Power Reductions and Unit Shutdowns

Unit 1 operated this month with a unit availability factor of 100.0% and a unit capacity factor (using MDC Net) of 101.10%. Unit 1 did not reduce power by more than 20% for more than four hours this month.

Unit 2 operated this month with a unit availability factor of 76.74% and a unit capacity factor (using MDC Net) of 75.66%. Unit 2 reduced power once by more than 20% for more than four hours this month to enter the scheduled sixth refueling outage.

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Summary of Significant Safety Related Maintenance

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There was no significant safety-related maintenance for Unit 1 during the month of September.

Significant safety-related maintenance for Unit 2 during the month of September consisted of:

- 1. Reactor head removal and core offload.
- 2. Removal of the vital 120 Volt A.C. inverters for replacement during 2R6.
- 3. Removal of the reactor protection system for replacement during 2R6.
- 4. Removal of the main annunciator system for replacement during 2R6.

Actuation of Steam Generator Safety or Pressurizer Power Operated Relief Valves

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

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OPERATING DATA REPORT

DOCKET NO.	50-275
UNIT	1
DATE	10/01/94
COMPLETED BY	T. Eubank
	J. Stipicevich
TELEPHONE	(805) 545-4867/4877

OPERATING STATUS

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1.	Unit Name:	Diablo Canyon Unit 1
2.	Reporting Period:	September 1994
3.	Licensed Thermal Power (MWt):	3338
4.	Nameplate Rating (Gross MWe):	1137
5.	Design Electrical Rating (Net MWe):	1086
б.	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	720.0	6551.0	82413.3
12.	Number Of Hours Reactor Was Critical	720.0	4921.9	69165.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	720.0	4882.2	68224.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2402214	15882108	216221617
17.	Gross Electrical Energy Generated (MWH)	819200	5401400	72669932
18.	Net Electrical Energy Generated (MWH)	781356	5121779	68938332
19.	Unit Service Factor	100.00	74.53	82.78
20.	Unit Availability Factor	100.00	74.53	82.78
21.	Unit Capacity Factor (Using MDC Net)	101.10	72.84	77.93
22.	Unit Capacity Factor (Using DER Net)	99.93	71.99	77.03
23.	Unit Forced Outage Rate	0.00	5.53	3.07
24.	Shutdowns Scheduled Over Next 6 Months		,	

(Type, Date, and Duration of Each): None.

25. If Shut Down At End Of Report Period, Estimate Date of Startup: Not applicable.

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AVERAGE DAILY UNIT POWER LEVEL

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DOCKET NO.	50 - 275 ·
UNIT	1
DATE	10/01/94
COMPLETED BY	T. Eubank
	J. Stipicevich
TELEPHONE	(805) 545-4867/4877

September 1994	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
	1	1085
	2	1089
	3	1089
	4	1086
	5	1089
	6	1085
	- 7	1090
	8	1085
	9	1089
	10	1085
	·11	1089
	12	1085
	13	1089
	14	1080
	15	1088
	16	1085
	17 .	1085
	18	1085
	19	1085
	20	1085
	21	1081
	22	1085
	23	1081
	24	1077
	25	1090
	26	1081
	27	1085
	28	1080
	29	1084
	30	1085

The average monthly Electrical Power Level for September 1994 = 1085.22 MWe-Net

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-275
UNIT	1
DATE	10/01/94
COMPLETED BY	D. D. Malone
TELEPHONE	(805) 545-4859

REPORT MONTH: September 1994

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

123Type:Reason:MethF-ForcedA-Equipment Failure (Explain)1-MaS-ScheduledB-Maintenance or Test2-MaC-Refueling3-AuD-Regulatory Restriction4-CoE-Operator Training & License ExaminationprevF-Administrative5-PovG-Operational Error (Explain)6-OthH-Other (Explain)6-Oth

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

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EIIS Systems List, Table 1

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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

50-323
2
10/01/94
T. Eubank
J. Stipicevich
(805) 545-4867/4877

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OPERATING STATUS

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1.	Unit Name:	Diablo Canyon Unit 2
2.	Reporting Period:	September 1994
	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	720.0	6551.0	74972.0
12.	Number Of Hours Reactor Was Critical	552.5	6105.8	64325.6
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	552.5	6083.4	63412.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1869962	20543001	208375228
17.	Gross Electrical Energy Generated (MWH)	620800	6869404	69382503
18.	Net Electrical Energy Generated (MWH)	592110	6557342	65979155
19.	Unit Service Factor	76.74	92.86	84.58
20.	Unit Availability Factor	76.74	92.86	84.58
21.	Unit Capacity Factor (Using MDC Net)	75.66	92.09	81.09
22.	Unit Capacity Factor (Using DER Net)	73.49	89.45	78.65
23.	Unit Forced Outage Rate	0.00	4.70	4.09
24.	Shutdowns Scheduled Over Next 6 Months			

(Type, Date, and Duration of Each): None.

25. If Shut Down At End Of Report Period, Estimate Date of Startup: November 3, 1994.

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AVERAGE DAILY UNIT POWER LEVEL

50-323
2
10/01/94
T. Eubank
J. Stipicevich
(805) 545-4867/4877

September 1994

DAY

AVERAGE DAILY POWER LEVEL (MWe-Net)

1	1084
2	1084
3	1080
4	1084
5	1084
6	1084
7	1088
8	1084
9	1089
10	1088
11	1084
12	1085
13	1085
14	1085
15	1089
16	1080
17	1081
18	1084
19	1076
20	1072
21	1063
22	1051
23	955
24	-37
25	-9
26	-5
27	-5
28	-4
29	-4
30	-4

The average monthly Electrical Power Level for September 1994 = 822.38 MWe-Net

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UNIT SHUTDOWNS AND POWER REDUCTIONS

50-323 .
2
10/01/94
D. D. Malone
(805) 545-4859

REPORT MONTH: September 1994

-NO	DATE	TYPE	DURATION (HOURS)	REASON ²	METHOD OF SHUTDOWN ³	LICENSEE EVENT REPORT	SYSTEM CODE ⁴	COMPONENT CODE ⁵	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	09/24/94	S	167.5	С	1	N/A	N/A	N/A	None required.

1	2	3	
Туре:	Reason:	Method:	
F-Forced	A-Equipment Failure (Explain)	1-Manual	
S-Scheduled	B-Maintenance or Test	2-Manual Scram	
	C-Refueling	3-Automatic Scram	
	D-Regulatory Restriction	4-Continuation from	
	E-Operator Training & License Examination	previous month	
	F- Administrative	5-Power reduction	
	G-Operational Error (Explain)	6-Other	
	H-Other (Explain)		

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4 EIIS Systems List, Table 1

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

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REFUELING INFORMATION REQUEST

		DOCKET NO.	50-275
		UNIT	1
		DATE	10/01/94
		COMPLETED BY	D. L. Farrer
			D. D. Malone
		TELEPHONE	(805) 545-4438/4859
1.	Name of facility:		Diablo Canyon Unit 1
2.	Scheduled date for next refueling shutdo	September 9, 1995	
3.	Scheduled date for restart following refu	eling:	November 1, 1995

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 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 the cycle 7 core reload on March 28, 1994.

- 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 September 30, 1994, the number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool were:

(a) 193 (b) 464

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

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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REFUELING INFORMATION REQUEST

 DOCKET NO.
 50-323

 UNIT
 2

 DATE
 10/01/94

 COMPLETED BY
 D. L. Farrer

 D. D. Malone
 D. D. 545-4438/4859

1. Name of facility:

Diablo Canyon Unit 2

- 2. Scheduled date for next refueling shutdown: September 24, 1994.
- 3. Scheduled date for restart following refueling: November 6, 1994 (estimated).
- 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 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 6 core reload on March 10, 1993.
- 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 September 30, 1994, the number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool were:
 - (a) 0 (b) 677
- 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

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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