

MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of March 1993. 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 March 1, 1993: Unit 1 and Unit 2 started the month in Mode 1 (Power Operation) at 100% power.
- On March 4, 1993: Unit 2 ramped down to 50% power for condenser cleaning, and then ramped back up to 87% power.
- On March 5, 1993: Unit 2 commenced ramping down in preparation for the fifth refueling outage.
- On March 6, 1993: Unit 2 ramped down to 0% power and was then disconnected from the PG&E power grid.
- Unit 2 entered Mode 2 (Startup), Mode 3 (Hot Standby), Mode 4 (Hot Shutdown), and Mode 5 (Cold Shutdown).
- On March 9, 1993: Unit 2 entered Mode 6 (Refueling).
- On March 12, 1993: A 10 CFR 50.72(b)(2)(iii)(C) non-emergency four-hour report was made for Unit 2 regarding a 0.5-inch gap found between the top of the equipment hatch door and the containment wall. For more information see LER 2-93-003-00.
- Unit 1 ramped down to 50% for Circulating Water Pump (CWP) 1-2 cable failure.
- On March 16, 1993: Unit 1 ramped back up to 100% after replacement of the CWP 1-2 damaged cable.
- On March 31, 1993: Unit 2 core offload completed.
- Unit 1 ended the month in Mode 1 (Power Operation) at 100% power, and Unit 2 ended the month with the reactor defueled.

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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 100.0% and a unit capacity factor (using MDC Net) of 93.4%. Unit 1 reduced power once this month to repair a damaged cable of Circulating Water Pump 1-2.

Unit 2 operated this month with a unit availability factor of 16.2% and a unit capacity factor (using MDC Net) of 13.8%. Unit 2 reduced power twice this month, once for condenser cleaning and once to start the fifth refueling outage.

Summary of Significant Safety Related Maintenance

Significant safety related maintenance for Unit 1 consisted of modifications and associated testing to separate Emergency Diesel Generator (EDG) 1-3 from Unit 2 to support installation of EDG 2-3.

Significant safety related outage maintenance for Unit 2 consisted of the following:

- reactor disassembly
- reactor vessel 10-year in-service inspection
- inspections and maintenance of Residual Heat Removal system valves
- steam generator shot peening and eddy current testing on the primary side, and pressure pulse cleaning, sludge lancing, and foreign object search and retrieval on the secondary side
- maintenance on EDGs 2-1, 2-2, and installation and testing of new EDG 2-3
- inspection of Personnel and Emergency Airlocks

Actuations 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.



OPERATING DATA REPORT

DOCKET NO.	50-275
UNIT	1
DATE	04/01/93
COMPLETED BY	P. DAHAN
TELEPHONE	(805) 545-4054

OPERATING STATUS

1. Unit Name:	Diablo Canyon Unit 1
2. Reporting Period:	March 1993
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	744.0	2160.0	69262.3
12. Number Of Hours Reactor Was Critical	744.0	2160.0	57772.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	2160.0	56872.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2338926	6887966	178629268
17. Gross Electrical Energy Generated (MWH)	782700	2317700	60108732
18. Net Electrical Energy Generated (MWH)	746171	2207668	56996216
19. Unit Service Factor	100.00	100.00	82.11
20. Unit Availability Factor	100.00	100.00	82.11
21. Unit Capacity Factor (Using MDC Net)	93.43	95.22	76.66
22. Unit Capacity Factor (Using DER Net)	92.35	94.11	75.77
23. Unit Forced Outage Rate	0.00	0.00	3.35
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

DOCKET NO. 50-275
 UNIT 1
 DATE 04/01/93
 COMPLETED BY P. DAHAN
 TELEPHONE (805) 545-4054

March 1993

DAY

AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	1065
2	1069
3	1068
4	1072
5	1074
6	1072
7	1071
8	1071
9	1075
10	1072
11	1084
12	941
13	498
14	511
15	519
16	669
17	1072
18	1079
19	1084
20	1076
21	1080
22	1084
23	1076
24	1079
25	1076
26	1080
27	1080
28	1075
29	1075
30	1076
31	1071

The average monthly Electrical Power Level for March 1993 = 1002.9 MWe-Net



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-275
 UNIT 1
 DATE 04/01/93
 COMPLETED BY P.G. DAHAN
 TELEPHONE (805) 545-4054

REPORT MONTH: March 1993

NO.	DATE	TYPE ¹	DURATION (HOURS)	REASON ²	METHOD OF SHUTDOWN ³	LICENSEE EVENT REPORT	SYSTEM CODE ⁴	COMPONENT CODE ⁵	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
1	930305	F	N/A	A	5	1-93-005	KE	CBL	Unit 1 ramped down to 50% for circulating water pump 1-2 cable repair.

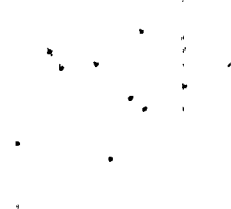
¹
 Type:
 F-Forced
 S-Scheduled

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
 EHS Systems List, Table 1

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



OPERATING DATA REPORT

DOCKET NO.	50-323
UNIT	2
DATE	04/01/93
COMPLETED BY	P. DAHAN
TELEPHONE	(805) 545-4054

OPERATING STATUS

- | | |
|--|----------------------|
| 1. Unit Name: | Diablo Canyon Unit 2 |
| 2. Reporting Period: | March 1993 |
| 3. 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	744.0	2160.0	61821.0
12. Number Of Hours Reactor Was Critical	120.6	1473.7	52308.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	120.6	1462.6	51467.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	372137	4888861	168190682
17. Gross Electrical Energy Generated (MWH)	122500	1629200	55974599
18. Net Electrical Energy Generated (MWH)	111460	1548985	53182586
19. Unit Service Factor	16.21	67.71	83.25
20. Unit Availability Factor	16.21	67.71	83.25
21. Unit Capacity Factor (Using MDC Net)	13.78	65.97	79.28
22. Unit Capacity Factor (Using DER Net)	13.39	64.09	76.88
23. Unit Forced Outage Rate	0.00	4.81	4.33
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	Refueling Outage, March 5, 1993, 67 days.		
25. If Shut Down At End Of Report Period, Estimate Date of Startup:	May 11, 1993.		



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-323
 UNIT 2
 DATE 04/01/93
 COMPLETED BY P.G. DAHAN
 TELEPHONE (805) 545-4054

March 1993

DAY

AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	1071
2	1068
3	1059
4	798
5	857
6	-34
7	-23
8	-8
9	-9
10	-8
11	-8
12	-7
13	-7
14	-7
15	-7
16	-7
17	-7
18	-7
19	-7
20	-7
21	-6
22	-7
23	-7
24	-7
25	-7
26	-7
27	-7
28	-3
29	-2
30	-3
31	-2

The average monthly Electrical Power Level for March 1993 = 149.8 MWe-Net

