MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of April, 1986. 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.

On April 1, 1986	Unit 1 entered the month in Mode 1 (Power Operation) and Unit 2 entered the month in Mode 3 (Hot Standby).
On April 2, 1986	Unit 2 was synchronized to the PGandE system but stayed at reduced power while plugging leaking main condenser tubes.
On April 3, 1986	Unit 2 returned to 100 percent power.
On April 4, 1986	Unit 1 reduced power to 70 percent to perform a surveillance on flow control valve FCV-44 (Main Steam Isolation Valve).
On April 5, 1986	Unit 1 returned to 100 percent power.
On April 6, 1986	Unit 2 reduced power to 50 percent to plug leaking main condenser tubes and returned to 100 percent power.
On April 9, 1986	Unit 2 experienced a reactor trip.
On April 10, 1986	Unit 2 was synchronized to the PGandE system but the power increase was stopped at 48 percent due to ongoing repairs of main feedwater pump 2-1.
On April 11, 1986	Unit 2 returned to 100 percent power.
On April 12, 1986	Unit 2 reduced power to 78 percent to facilitate repair to heater drain tank pump.
On April 13, 1986	Unit 2 reduced power to 30 percent to plug leaking main condenser tubes.
On April 15, 1986	Unit 2 returned to 100 percent power.
On April 17, 1986	Unit 2 reduced power to 49 percent due to an inoperable NIS channel.
On April 18, 1986	A Unit 2 Unusual Event was declared upon initiation of a plant shutdown when a NIS channel could not be repaired within the time limits of the Technical Specification Action Statement.
On April 18, 1986	Unit 2 returned to 100 percent power.

IE24
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Unit 1 operated this month with a unit availability factor of 100 percent and unit capacity factor of 100 percent. During the month of April, Unit 1 had to reduce power once to perform a post maintenance surveillance on a main steam isolation valve.

Unit 2 operated this month with a unit availability factor of 92.5 percent and a unit capacity factor of 83.2 percent. During the month of April, Unit 2 had to reduce power four times; twice to plug leaking main condenser tubes, once for maintenance, and once to meet a Technical Specification limitation. In addition, Unit 2 experienced an automatic reactor trip due to a transient initiated by a failed main feedwater pump thrust bearing wear detector probe.

No challenges to the steam generator safety valves or pressurizer power operated relief valves have been made. Major maintenance performed included the repair of Unit 2's number 2 Heater Drain Pump inboard bearing and the repair of a valve stem leak on Unit 1's Main Steam Isolation Valve FCV-44.

OPERATING DATA REPORT

DOCKET NO. 50-275
DATE 05/01/86
COMPLETED BY A.T. Keller
TELEPHONE (805)595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: April 1986
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): 1125
7. Maximum Dependable Capacity (Net MWe): 1073
8. If Changes Occur in Capacity Ratings (Items Number 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: None

	This Month	Yr-to-Date	Cumulative*
11. Hours In Reporting Period	719.0	2879.0	8613.3
12. Number Of Hours Reactor Was Critical	719.0	2847.5	8145.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	719.0	2822.0	8029.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2406348	9065053	25630510
17. Gross Electrical Energy Generated (MWH)	814700	3021300	8535632
18. Net Electrical Energy Generated (MWH)	778141	2875091	8109325
19. Unit Service Factor	100.0	98.0	93.2
20. Unit Availability Factor	100.0	98.0	93.2
21. Unit Capacity Factor (Using MDC Net)	100.9	93.1	87.7
22. Unit Capacity Factor (Using DER Net)	99.7	92.0	86.7
23. Unit Forced Outage Rate	0.0	0.0	6.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refueling Outage, September 1, 1986, 63 days

25. If Shut Down At End Of Report Period, Est. Date of Start-up: N/A
26. Units In Test Status (Prior to Commercial Operation): N/A

* As of commercial operation on 5-7-85 at 0243.

OPERATING DATA REPORT

DOCKET NO. 50-323
DATE 05/01/86
COMPLETED BY A.T. Keller
TELEPHONE (805)595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: April 1986
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): 1124
7. Maximum Dependable Capacity (Net MWe): 1073
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
   Maximum Dependable Capacities (items 6 and 7) have been calculated
9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: None

	This Month	Yr-to-Date*	Cumulative*
11. Hours In Reporting Period	719.0	1172.0	1172.0
12. Number Of Hours Reactor Was Critical	692.0	1100.0	1100.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	664.8	1072.8	1072.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2058587	3431527	3431527
17. Gross Electrical Energy Generated (MWH)	678700	1135099	1135099
18. Net Electrical Energy Generated (MWH)	642117	1075318	1075318
19. Unit Service Factor	92.5	91.5	91.5
20. Unit Availability Factor	92.5	91.5	91.5
21. Unit Capacity Factor (Using MDC Net)	83.2	85.5	85.5
22. Unit Capacity Factor (Using DER Net)	79.8	82.0	82.0
23. Unit Forced Outage Rate	7.5	8.5	8.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
    N/A
25. If Shut Down At End Of Report Period, Est. Date of Start-up: N/A
26. Units In Test Status (Prior to Commercial Operation): N/A

* Year-to-date, and cumulative totals started March 13, 1986 at 0300 PST (Date of commercial operation)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-275
UNIT	Diablo Canyon Unit 1
DATE	05/01/86
COMPLETED BY	A.T. Keller
TELEPHONE	(805)595-7351

MONTH April 1986

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1083	17	1087
2	1081	18	1086
3	1088	19	1087
4	1054	20	1074
5	1053	21	1087
6	1086	22	1087
7	1091	23	1087
8	1087	24	1087
9	1091	25	1087
10	1089	26	1087
11	1087	27	1001
12	1083	28	1083
13	1074	29	1087
14	1086	30	1087
15	1091		
16	1087		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-323
UNIT	Diablo Canyon Unit 2
DATE	05/01/86
COMPLETED BY	A.T. Keller
TELEPHONE	(805)595-7351

MONTH April 1986

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	-39	17	1082
2	127	18	916
3	837	19	1076
4	1076	20	1030
5	1092	21	1080
6	900	22	1043
7	1084	23	1080
8	1088	24	1093
9	336	25	1075
10	267	26	1081
11	674	27	1008
12	1057	28	1086
13	579	29	1078
14	748	30	1073
15	1043		
16	1085		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS
Page 1 of 1

DOCKET NO. 50-275
UNIT NAME Diablo Canyon Unit 1
DATE 05/02/86
COMPLETED BY D.P. SISK
TELEPHONE (805)595-7351

REPORT MONTH APRIL 1986

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
None									

1
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
6,7,8-N/A
9-Other

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-1022)

5
Exhibit I - Same Source

UNIT SHUTDOWNS
Page 1 of 2

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 05/03/86
COMPLETED BY D.P. SISK
TELEPHONE (805)595-7351

REPORT MONTH APRIL 1986

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	04/01/86	F	31.5	A	4	2-86-011	SG	COND	A manual unit trip was initiated in accordance with Operating Procedure AP-20 "Condenser Tube Leak" following a main condenser tube rupture. The ruptured tube was plugged and the main condenser condensate hot well drained and refilled. A steam dump valve failed open during the transient following the unit trip resulting in a high steam flow coincident with Low-Low Tavg safety injection.

1
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)

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Method:
1-Manual
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Exhibit I - Same Source

UNIT SHUTDOWNS
Page 2 of 2

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 05/03/86
COMPLETED BY D.P. SISK
TELEPHONE (805)595-7351

REPORT MONTH APRIL 1986

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
2	04/09/86	F	22.7	A	3	2-86-012	JK	DET	An automatic reactor trip and subsequent turbine trip occurred due to a low steam generator level coincidental with steam flow/feed flow mismatch which was caused by a main feedwater pump (MFP) 2-2 trip. The MFP 2-2 trip was caused by the failure of a thrust bearing wear detector probe which produced a thrust bearing wear signal and subsequent trip of MFP 2-2. The wear detector probe was replaced and since examination of equipment history showed no previous failures, no additional corrective action was determined to be necessary.

1
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
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5
Exhibit I - Same Source

PACIFIC GAS AND ELECTRIC COMPANY

DIABLO CANYON POWER PLANT
P.O. Box 56 • Avila Beach, California 93424 • (805) 595-7351

R.C. THORNBERRY
PLANT MANAGER

May 7, 1986

Director, Office of Resource Management
U.S. Nuclear Regulatory Commission
Washington, DC 20555

RE: Docket No. 50-275 and 50-323
License No. DPR-80 and DPR-82
Monthly Operating Report for April, 1986

Gentlemen:

Enclosed are the completed monthly operating report forms for Diablo Canyon Units 1 and 2 for April, 1986. This report is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Sincerely,

ROBERT C. THORNBERRY

RCT:lam

Enclosures

cc Mr. John B. Martin, Regional Administrator
Region V - USNRC

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