MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of June, 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 June 1, 1986	Unit 1 is operating at 100% power. Unit 2 is operating at 70% power while locating and plugging main condenser saltwater leaks.
On June 2, 1986	Unit 2 power was reduced to 30% while plugging main condenser tubes.
On June 3, 1986	Unit 2 was returned to full power (99.9%).
On June 8, 1986	Unit 1 power was reduced to 55% to plug leaking main condenser tubes and returned to 100% after the tubes were plugged.
On June 10, 1986	Unit 1 power was reduced to 55% to plug leaking main condenser tubes.
On June 10, 1986	Unit 2 power was reduced to secure the number 2 heater drip pump for maintenance testing. Later power was reduced to 57% to locate and plug leaking main condenser tubes. Unit 2 was operated at various power levels from June 10 to June 15 while testing and inspecting the number 2 heater drip pump and while searching for intermittent main condenser tube leaks.
On June 11, 1986	Unit 1 was returned to full power (99.9%).
On June 14, 1986	Unit 1 power was reduced to 89% to extend the fuel cycle to the scheduled start of the refueling outage.
On June 15, 1986	Unit 2 was returned to full power (98.0%) after the leaking main condenser tubes were plugged and the number 2 heater drip pump was replaced.
On June 19, 1986	Unit 1 power was reduced to 50% power while searching for main condenser tube leaks.
On June 20, 1986	Unit 1 was returned to maximum available power (90%) after the leaking main condenser tubes were plugged.
On June 25, 1986	Unit 1 power was reduced to 49% to search for leaking main condenser tubes.
On June 27, 1986	Unit 1 was returned to maximum available power (90.4%).
On June 27, 1986	Unit 2 experienced a reactor trip due to circulating water pump failure as further explained in the attached Unit Shutdown Report.

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On June 27, 1986	Diesel Generators 1-3 and 2-1 autostarted and loaded on their respective Unit 2 4kV vital busses due to 4 kV vital bus undervoltage when the vital bus potential transformer devices were racked out in error.
On June 27, 1986	Unit 2 experienced a reactor trip signal while performing a functional test on IR channel N-36 due to a procedural step being performed out-of-sequence. The reactor was in Mode 3 at the time.
On June 28, 1986	Unit 2 was synchronized to the PGandE system but the power increase was stopped at 46% due to ongoing repairs of circulating water pump 2-2.
On June 30, 1986	Unit 1 is operating at maximum available power (89%) during the Unit coast down prior to the first refueling. Unit 2 is operating at 46% power while waiting for repair of the motor for circulating water pump 2-2.

Unit 1 operated this month with a unit availability factor of 100 percent and unit capacity factor of 88.8 percent. Unit 1 completed 100 days of continuous operation on June 24. During the month of June, Unit 1 reduced power four times to plug leaking main condenser tubes.

Unit 2 operated this month with a unit availability factor of 92.1 percent and unit capacity factor of 79.3 percent. Unit 2 experienced two power reductions to plug leaking main condenser tubes and operated at various power levels from June 10 to June 15 while testing and inspecting the number 2 Heater Drip Pump and while searching for intermittent main condenser tube leaks. In addition, Unit 2 experienced a reactor trip on June 27 and subsequently received an unrelated reactor trip signal on the same day while the reactor was already shutdown.

No challenges to the steam generator safety valves or pressurizer power operated relief valves have been made. Major maintenance performed included the replacement of Unit 2's heater drip pump. In addition, Unit 2 power was curtailed (June 28-30) while the motor for circulating water pump 2-2 was being repaired.

OPERATING DATA REPORT

DOCKET NO. 50-275
DATE 07/07/86
COMPLETED BY A.T. Keller
TELEPHONE (805)595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: June 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	720.0	4343.0	10077.3
12. Number Of Hours Reactor Was Critical	720.0	4311.5	9609.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	720.0	4286.0	9493.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2163689	13719424	30284877
17. Gross Electrical Energy Generated (MWH)	722400	4587500	10101832
18. Net Electrical Energy Generated (MWH)	686049	4367281	9601515
19. Unit Service Factor	100.0	98.7	94.2
20. Unit Availability Factor	100.0	98.7	94.2
21. Unit Capacity Factor (Using MDC Net)	88.8	93.7	88.8
22. Unit Capacity Factor (Using DER Net)	87.7	92.6	87.7
23. Unit Forced Outage Rate	0.0	0.0	5.3

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 07/07/86
COMPLETED BY A.T. Keller
TELEPHONE (805)595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: June 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:

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	720.0	2636.0	2636.0
12. Number Of Hours Reactor Was Critical	683.0	2527.0	2527.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	663.2	2479.9	2479.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2008247	7737123	7737123
17. Gross Electrical Energy Generated (MWH)	647700	2533699	2533699
18. Net Electrical Energy Generated (MWH)	612588	2402104	2402104
19. Unit Service Factor	92.1	94.1	94.1
20. Unit Availability Factor	92.1	94.1	94.1
21. Unit Capacity Factor (Using MDC Net)	79.3	84.9	84.9
22. Unit Capacity Factor (Using DER Net)	76.0	81.4	81.4
23. Unit Forced Outage Rate	7.9	5.9	5.9

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	07/07/86
COMPLETED BY	A.T. Keller
TELEPHONE	(805)595-7351

MONTH June 1986

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1062	17	946
2	1083	18	847
3	1078	19	958
4	1086	20	806
5	1083	21	950
6	1074	22	942
7	979	23	946
8	657	24	946
9	1033	25	831
10	1000	26	496
11	959	27	931
12	1086	28	942
13	1077	29	936
14	1019	30	945
15	958		
16	929		

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	07/07/86
COMPLETED BY	A.T. Keller
TELEPHONE	(805)595-7351

MONTH June 1986

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	733	17	1082
2	553	18	1077
3	866	19	1077
4	1077	20	1077
5	1082	21	1078
6	1077	22	1057
7	1077	23	1077
8	1077	24	1078
9	1044	25	1077
10	742	26	1077
11	649	27	236
12	777	28	-36
13	757	29	45
14	684	30	409
15	839		
16	1077		

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 07/07/86
COMPLETED BY D.P. SISK
TELEPHONE (805)595-7351

REPORT MONTH JUNE 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
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DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 07/07/86
COMPLETED BY D.P. SISK
TELEPHONE (805)595-7351

REPORT MONTH JUNE 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	06/27/86	F	56.8	A	3	2-86-016	KE	MO	Circulating water pump (CWP) 2-2 motor failure caused a 12 kV Bus Undervoltage Reactor Trip. CWP 2-2 is being repaired. To prevent similar occurrences, the other Unit 2 and both Unit 1 CWPs will be inspected during their unit's next available outage of sufficient duration.

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

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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

July 8, 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 June, 1986

Gentlemen:

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

Sincerely,

R C Thornberry

ROBERT C. THORNBERRY

RCT:lm

Enclosures

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

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