

MONTHLY NARRATIVE REPORT  
OF OPERATION  
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of May, 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 May 6, 1986            Unit 2 experienced a turbine runback to 20% power due to the failure of stator cooling water pump 2-1. Unit 2 ramped up to and held at 50% power while inspecting condenser water boxes.

On May 7, 1986            Unit 2 returned to 100% power.

On May 7, 1986            An Unusual Event was declared upon issuance of a tsunami warning.

On May 18, 1986           Unit 2 reduced power to 70% to allow surveillance testing of main steam isolation valves and returned to 100% power.

On May 19, 1986           Unit 2 reduced power to 50% while plugging leaking main condenser tubes and returned to 100% power.

On May 25, 1986           Unit 2 reduced power to 50% and operated at various power levels between 50% and 95% the rest of the month while attempting to locate leaking main condenser tubes.

Unit 1 operated this month with a unit availability factor of 100 percent and unit capacity factor of 100 percent. During the month of May, Unit 1 never reduced power below 80 percent power.

Unit 2 operated this month with a unit availability factor of 100 percent a unit capacity factor of 89.3 percent. Before May 25, Unit 2 experienced three power reductions; once for surveillance testing, once to plug leaking main condenser tubes and once as the result of an automatic turbine runback. In addition, Unit 2 operated between May 25 and June 1 at various power levels between 50 percent and 95 percent while searching for an intermittent condenser tube leak.

No challenges to the steam generator safety valves or pressurizer power operated relief valves have been made. Major maintenance performed included the replacement of the rotating assembly on Auxiliary Feedwater Pump 2-1 due to a seized thrust bearing. In addition, during the Unit 2 power curtailments (May 25-31) work was begun on modifications to the Unit 2 High Pressure Turbine Pilot Trip Valves.

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# OPERATING DATA REPORT

DOCKET NO.	50-275
DATE	06/03/86
COMPLETED BY	A.T. Keller
TELEPHONE	(805) 595-7351

## OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: May 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	744.0	3623.0	9357.3
12. Number Of Hours Reactor Was Critical	744.0	3591.5	8889.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	3566.0	8773.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2490682	11555740	28121190
17. Gross Electrical Energy Generated (MWH)	843800	3865100	9379432
18. Net Electrical Energy Generated (MWH)	806141	3681232	8915466
19. Unit Service Factor	100.0	98.4	93.8
20. Unit Availability Factor	100.0	98.4	93.8
21. Unit Capacity Factor (Using MDC Net)	101.0	94.7	88.8
22. Unit Capacity Factor (Using DER Net)	99.8	93.6	87.7
23. Unit Forced Outage Rate	0.0	0.0	5.7
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.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET # 50-275  
UNIT Diablo Canyon Unit 1  
DATE 06/03/86  
COMPLETED BY A.T. Keller  
TELEPHONE (805)595-7351

MONTH May 1986

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1087</u>
2	<u>1091</u>
3	<u>1087</u>
4	<u>1066</u>
5	<u>1091</u>
6	<u>1083</u>
7	<u>1077</u>
8	<u>1087</u>
9	<u>1087</u>
10	<u>1087</u>
11	<u>1074</u>
12	<u>1087</u>
13	<u>1082</u>
14	<u>1087</u>
15	<u>1087</u>
16	<u>1091</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>1083</u>
18	<u>1070</u>
19	<u>1084</u>
20	<u>1091</u>
21	<u>1079</u>
22	<u>1095</u>
23	<u>1083</u>
24	<u>1087</u>
25	<u>1062</u>
26	<u>1083</u>
27	<u>1087</u>
28	<u>1083</u>
29	<u>1083</u>
30	<u>1083</u>
31	<u>1083</u>

## 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.



# OPERATING DATA REPORT

DOCKET NO. 50-323  
DATE 06/03/86  
COMPLETED BY A.T. Keller  
TELEPHONE (805) 595-7351

## OPERATING STATUS

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


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  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  | 744.0      | 1916.0      | 1916.0      |
| 12. Number Of Hours Reactor Was Critical                                       | 744.0      | 1844.0      | 1844.0      |
| 13. Reactor Reserve Shutdown Hours   | 0.0        | 0.0         | 0.0         |
| 14. Hours Generator On-Line  | 744.0      | 1816.8      | 1816.8      |
| 15. Unit Reserve Shutdown Hours  | 0.0        | 0.0         | 0.0         |
| 16. Gross Thermal Energy Generated (MWH)                                       | 2297349    | 5728876     | 5728876     |
| 17. Gross Electrical Energy Generated (MWH)                                    | 750900     | 1885999     | 1885999     |
| 18. Net Electrical Energy Generated (MWH)                                      | 713278     | 1788596     | 1788596     |
| 19. Unit Service Factor  | 100.0      | 94.8        | 94.8        |
| 20. Unit Availability Factor   | 100.0      | 94.8        | 94.8        |
| 21. Unit Capacity Factor (Using MDC Net)                                       | 89.3       | 87.0        | 87.0        |
| 22. Unit Capacity Factor (Using DER Net)                                       | 85.7       | 83.4        | 83.4        |
| 23. Unit Forced Outage Rate  | 0.0        | 5.2         | 5.2         |
| 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. 50-323  
UNIT Diablo Canyon Unit 2  
DATE 06/03/86  
COMPLETED BY A.T. Keller  
TELEPHONE (805)595-7351

MONTH May 1986

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1082</u>
2	<u>1077</u>
3	<u>1078</u>
4	<u>928</u>
5	<u>1065</u>
6	<u>613</u>
7	<u>922</u>
8	<u>1073</u>
9	<u>1082</u>
10	<u>1082</u>
11	<u>1049</u>
12	<u>1081</u>
13	<u>1077</u>
14	<u>1069</u>
15	<u>1077</u>
16	<u>1077</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>1082</u>
18	<u>1037</u>
19	<u>864</u>
20	<u>1081</u>
21	<u>1077</u>
22	<u>1078</u>
23	<u>1080</u>
24	<u>1064</u>
25	<u>711</u>
26	<u>750</u>
27	<u>752</u>
28	<u>703</u>
29	<u>645</u>
30	<u>747</u>
31	<u>616</u>

## 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 06/03/86  
 COMPLETED BY D.P. SISK  
 TELEPHONE (805)595-7351

REPORT MONTH MAY 1986

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
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None

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continuation from  
 previous month  
 5-Power reduction  
 6,7,8-N/A  
 9-Other

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

<sup>5</sup>  
 Exhibit I - Same Source



## UNIT SHUTDOWNS

Page 1 of 1

DOCKET NO. 50-323

UNIT NAME Diablo Canyon Unit 2

DATE 06/03/86

COMPLETED BY D.P. SISK

TELEPHONE (805) 595-7351

REPORT MONTH MAY 1986

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
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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

# PACIFIC GAS AND ELECTRIC COMPANY

PG&E +

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

R.C. THORNBERRY  
PLANT MANAGER

June 6, 1986

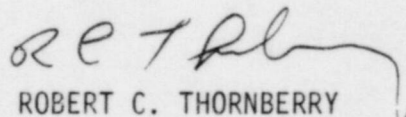
Director, Office of Resource Management  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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

Gentlemen:

Enclosed are the completed monthly operating report forms for Diablo Canyon Units 1 and 2 for May, 1986. This report is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications. In accordance with Section 4.7.13.3 of the Units 1 and 2 Technical Specifications, the annual Breakwater Settlement Survey for 1986 is included in this report.

Sincerely,

  
ROBERT C. THORNBERRY

RCT:lm

Enclosures

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

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