MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of December, 1985. 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 December 1, 1985	Unit 2 experienced a reactor trip
On December 1, 1985	Unit 2 was paralleled to the grid
On December 2, 1985	Unit 1 was separated from the grid due to marine fouling of the ocean intake structure
On December 2, 1985	Unit 2 was tripped manually while shutting down to clean marine fouling of the ocean intake structure
On December 5, 1985	Unit 2 experienced a reactor trip
On December 6, 1985	Unit 2 was paralleled to the grid
On December 9, 1985	Unit 1 was paralleled to the grid
On December 13, 1985	Unit 2 reduced power and separated from the grid to facilitate repairs to the main condenser
On December 15, 1985	Unit 2 was paralleled to the grid
On December 19, 1985	Unit 2 reduced power to 50% due to main condenser saltwater leakage
On December 21, 1985	Unit 2 experienced a reactor trip
On December 22, 1985	Unit 2 was paralleled to the grid
On December 25, 1985	Unit 2 experienced a reactor trip
On December 26, 1985	Unit 2 was paralleled to the grid
On December 28, 1985	Unit 2 reduced power and separated from the grid due to main condenser saltwater leakage
On December 30, 1985	Unit 2 was paralleled to the grid
On December 31, 1985	Unit 2 was separated from the grid during the performance of startup testing

Unit 1 operated this month with a unit availability factor of 79.8% and a unit capacity factor of 76.3%.

During the month of December, an ocean storm resulted in the repair and/or replacement of the traveling screens in the ocean intake structure. Reactor coolant pump motor 1-3 exhibited excessive vibration. The reactor was shutdown and vibration corrected by rebalancing the motor.

No challenges to the PORVs or steam generator safety valves have been made.

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-275
UNIT	Diablo Canyon Unit 1
DATE	01/13/86
COMPLETED BY	Bob Kanick
TELEPHONE	(805)595-7351

MONTH December 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1041	17	1070
2	949	18	1077
3	-19	19	1058
4	-20	20	1069
5	-31	21	1065
6	-37	22	1059
7	-32	23	1066
8	-35	24	1067
9	185	25	1066
10	1024	26	1065
11	1074	27	1066
12	1070	28	1066
13	1061	29	1050
14	1070	30	1057
15	1048	31	1065
16	1069		

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	01/13/86
COMPLETED BY	Bob Kanick
TELEPHONE	(805)595-7351

MONTH December 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	157	17	841
2	504	18	944
3	-21	19	599
4	-32	20	812
5	-37	21	241
6	-42	22	148
7	326	23	919
8	276	24	532
9	783	25	7
10	410	26	207
11	707	27	451
12	968	28	288
13	739	29	-41
14	-38	30	121
15	120	31	46
16	226		

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. 50-275
DATE 01/13/86
COMPLETED BY Bob Kanick
TELEPHONE (805)595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: December 1985
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	5734.3	5734.3*
12. Number Of Hours Reactor Was Critical	639.5	5298.3	5298.3*
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	593.5	5207.3	5207.3*
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1929994	16565450	16565450
17. Gross Electrical Energy Generated (MWH)	643900	5514332	5514332
18. Net Electrical Energy Generated (MWH)	609144	5234234	5234234
19. Unit Service Factor	79.8	90.8	90.8
20. Unit Availability Factor	79.8	90.8	90.8
21. Unit Capacity Factor (Using MDC Net)	76.3	85.1	85.1
22. Unit Capacity Factor (Using DER Net)	75.4	84.1	84.1
23. Unit Forced Outage Rate	20.2	9.2	9.2

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

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.

** These values are predictions - actual values are to be determined by operating experience during the first year of commercial operation.

OPERATING DATA REPORT

DOCKET NO. 50-323
DATE 01/13/86
COMPLETED BY Bob Kanick
TELEPHONE (805)595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: December 1985
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): 1145***
7. Maximum Dependable Capacity (Net MWe): 1093***
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	5881	5881*
12. Number Of Hours Reactor Was Critical	572.8	1874	1874*
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	488.3	1214	1214*
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	971006	2121190	2121190*
17. Gross Electrical Energy Generated (MWH)	300400	632800	632800*
18. Net Electrical Energy Generated (MWH)	267830	485988	485988*
19. Unit Service Factor	N/A**		
20. Unit Availability Factor	N/A**		
21. Unit Capacity Factor (Using MDC Net)	N/A**		
22. Unit Capacity Factor (Using DER Net)	N/A**		
23. Unit Forced Outage Rate	N/A**		

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):

	Forecast	Achieved
INITIAL CRITICALITY	July 1985	August 1985
INITIAL ELECTRICITY	October 1985	October 1985
COMMERCIAL OPERATION	January 1986	

* Cumulative totals started on the April 26, 1985 (Date of effectiveness of Low Power License).
** These sections not applicable until commencement of commercial operation.
*** These values are predictions - actual values are to be determined by operating experience during the first year of commercial operation.

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-275
UNIT NAME Diablo Canyon Unit 1
DATE 01/13/86
COMPLETED BY W.J. KELLY
TELEPHONE (805)595-7351

REPORT MONTH DECEMBER 1985

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	12/02/85	F	150.5	B	1	--	NA	NA	Unit was shutdown to clean marine debris from the circulating water system ocean intake structure.

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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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 01/13/86
COMPLETED BY W.J. KELLY
TELEPHONE (805)595-7351

REPORT MONTH DECEMBER 1985

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	12/01/85	F	13.1	A	3	2-85-016	NA	NA	During the 50 percent load rejection test, a turbine trip and subsequent reactor trip occurred due to hi-hi steam generator level, caused by a failure of the automatic feedwater control system to maintain proper steam generator water levels during transient. Feedwater control systems have been adjusted to provide for proper response to this transient.
2	12/02/85	F	98.3	B	2	2-85-018	IU	LI	While reducing power due to marine fouling of the ocean intake structure, a failure of the digital rod position indication system prompted operators to manually trip the unit from 20 percent power. Cause of DRPI failure has not been determined.
3	12/13/85	S	42.9	B	1	--	NA	NA	Unit shutdown to repair condenser tube leaks.

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:
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6,7,8-N/A
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Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 01/13/86
COMPLETED BY W.J. KELLY
TELEPHONE (805)595-7351

REPORT MONTH DECEMBER 1985

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
4	12/21/85	F	21.3	A	3	2-85-022	SJ	FCV	While in Mode 1, automatic turbine and and reactor trips occurred from low steam generator water level signal coincident with steamflow feedflow mismatch signal, caused by the 2-2 steam generator feedwater regulating valve closing when construction personnel bumped a junction box causing an improperly terminated wiring connection to momentarily open. The wiring connection was properly terminated.
5	12/25/85	F	29.9	B	3	2-85-024	NA	NA	While in Mode 1 and performing large load rejection testing, reactor and turbine trips occurred due to low-low steam generator water level resulting from the slow response time of the steam dump control system, which was subsequently modified to improve the steam dump valve response time.

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
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5
Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 3 of 3

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 01/13/86
COMPLETED BY W.J. KELLY
TELEPHONE (805)595-7351

REPORT MONTH DECEMBER 1985

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
6	12/28/85	S	36.2	B	1	NA	NA	NA	Unit shutdown to repair condenser tube leaks.
7	12/31/85	S	14.0	B	2	NA	NA	NA	Turbine tripped as part of Startup Testing.

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

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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

January 13, 1986

Office of Management Information
and Program Control
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 December, 1985

Gentlemen:

Enclosed are the completed monthly operating report forms for Diablo Canyon Units 1 and 2 for December, 1985. 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:lah

Enclosures

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

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