

MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of February, 1987. 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 February 1, 1987 Unit 1 started the month at 100%.
Unit 2 started the month at 100%.

On February 15, 1987 Unit 2 reduced power to 80% due to hydrogen
leaking into the generator stator cooling water
system.

On February 16, 1987 Unit 2 returned to full power after investigating
the hydrogen leak into the generator stator
cooling water system.

On February 17, 1987 Unit 2 was removed from the PGandE system and
entered Mode 2 to repair a hydrogen leak in the
generator stator cooling system.

On February 22, 1987 Unit 1 declared an unusual event when the Solid
State Protection System (SSPS) Train B was declared
inoperable. Unit 1 commenced a power decrease in
preparation for unit shutdown. The SSPS train B
was repaired and declared operable, the shut down
was terminated, and the unit was stabilized at 30%
reactor power. At 30% reactor power Unit 1
experienced a turbine trip and subsequent reactor
trip due to a High-High Steam Generator Level
signal from 1-4 Steam Generator.

Unit 2 was returned to Mode 1 and synchronized to
the PGandE system. Unit 2 commenced a power
increase to 100%.

On February 23, 1987 Unit 1 entered Mode 1, synchronized to the PGandE
system and returned to 73% power. Power was
curtailed at 73% due to problems with the
Heater #2 Drip Pump seals. Following pump repairs
Unit 1 was returned to full power. Unit 2
returned to full power.

On February 25, 1987 Unit 2 reduced power to 50% to search for leaking
condenser tubes. Unit 2 was then returned to full
power after plugging leaking condenser tubes.

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On February 26, 1987 Unit 2 reduced power to 50% to search for leaking condenser tubes.

On February 27, 1987 Unit 2 returned to full power after plugging leaking condenser tubes.

On February 28, 1987 Unit 1 ended the month with power at 100%.
Unit 2 ended the month with power at 100%.

Unit 1 operated this month with a unit availability factor of 93.1% and a unit capacity factor of 91.0%. Unit 1 shutdown one time this month due to a reactor trip.

Unit 2 operated this month with a unit availability factor of 84.4% and a unit capacity factor of 78.8%. Unit 2 shutdown one time this month to repair a hydrogen leak into the generator stator cooling water system. Unit 2 reduced power three times this month, once for a hydrogen leak into the generator stator cooling water system and two times to search for and plug leaking condenser tubes.

No challenges to the steam generator safety valves or pressurizer power operated relief valves were made.

Significant safety related maintenance consisted of repairs to the Solid State Protection System and to the Plant Vent Gaseous and Particulate Radiation Monitors.

OPERATING DATA REPORT

DOCKET NO. 50-275
DATE 03/02/87
COMPLETED BY A.T. Keller
TELEPHONE (805) 595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: February 1987
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	672.0	1416.0	15910.3
12. Number Of Hours Reactor Was Critical	636.0	1288.5	12554.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	625.8	1243.3	12208.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2028965	3169447	36711516
17. Gross Electrical Energy Generated (MWH)	689400	1050700	12184432
18. Net Electrical Energy Generated (MWH)	656084	982341	11510162
19. Unit Service Factor	93.1	87.8	76.7
20. Unit Availability Factor	93.1	87.8	76.7
21. Unit Capacity Factor (Using MDC Net)	91.0	64.7	67.4
22. Unit Capacity Factor (Using DER Net)	89.9	63.9	66.6
23. Unit Forced Outage Rate	6.9	12.2	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 Startup: N/A

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

OPERATING DATA REPORT

DOCKET NO. 50-323
DATE 03/02/87
COMPLETED BY A.I. Keller
TELEPHONE (805) 595-7351

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: February 1987
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): 1130 **
7. Maximum Dependable Capacity (Net MWe): 1079 **
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	672.0	1416.0	8469.0
12. Number Of Hours Reactor Was Critical	672.0	1416.0	8273.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	566.9	1310.9	8041.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1834179	4218919	25299637
17. Gross Electrical Energy Generated (MWH)	606900	1394600	8307099
18. Net Electrical Energy Generated (MWH)	571402	1318681	7866855
19. Unit Service Factor	84.4	92.6	94.9
20. Unit Availability Factor	84.4	92.6	94.9
21. Unit Capacity Factor (Using MDC Net)	78.8	86.3	86.1
22. Unit Capacity Factor (Using DER Net)	76.0	83.2	83.0
23. Unit Forced Outage Rate	15.6	7.4	5.1
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling Outage, April 3, 1987, 84 days

25. If Shut Down At End Of Report Period, Est. Date of Startup: N/A

* As of commercial operation on March 13, 1986 at 0300 PST.

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-275
UNIT	Diablo Canyon Unit 1
DATE	03/02/87
COMPLETED BY	A.T. Keller
TELEPHONE	(805) 595-7351

MONTH February 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
-----	--

1	1068
2	1087
3	1083
4	1091
5	1091
6	1091
7	1096
8	1075
9	1091
10	1087
11	1092
12	1079
13	1083
14	1079
15	1079
16	1095

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
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17	1094
18	1087
19	1077
20	1091
21	1092
22	284
23	-37
24	360
25	744
26	1009
27	1083
28	1088

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.

The Average Monthly Electrical Power Level for February, 1987 = 976.32 MWe-Net.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-323
UNIT	Diablo Canyon Unit 2
DATE	03/02/87
COMPLETED BY	A.T. Keller
TELEPHONE	(805) 595-7351

MONTH February 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
-----	--

1	1046
2	1087
3	1087
4	1087
5	1087
6	1087
7	1047
8	1088
9	1087
10	1092
11	1080
12	1088
13	1083
14	1062
15	1054
16	934

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
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17	836
18	-43
19	-46
20	-48
21	-48
22	225
23	1016
24	1093
25	798
26	997
27	878
28	1058

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.

The Average Monthly Electrical Power Level for February, 1987 = 850.30 MWe-Net.

UNIT SHUTDOWNS

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DOCKET NO.	50-275
UNIT NAME	Diablo Canyon Unit 1
DATE	03/03/87
COMPLETED BY	M.T. HUG
TELEPHONE	(805) 595-7351

REPORT MONTH FEBRUARY 1987

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	02/22/87	F	46.2	A	3	87-002	SJ	FCV	During a return to full power from 30%, plant operators were unable to control steam generator level due to equipment problems with feedwater control valve (FCV) 510. Due to feed flow exceeding steam flow, steam generator 1-4 rose to the High-High trip setpoint. FCV 510 was recalibrated and returned to service.

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

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DOCKET NO.	50-323
UNIT NAME	Diablo Canyon Unit 2
DATE	03/03/87
COMPLETED BY	M.T. HUG
TELEPHONE	(805) 595-7351

REPORT MONTH FEBRUARY 1987

No.	Date	Duration Type ¹	(Hours)	Licensee Method of Reason ²	Event Shutdown ³	System Report #	Cause & Corrective Component Code ⁴	Code ⁵	Action to Prevent Recurrence
1	02/17/87	F	105.1	A	1	N/A	TJ	CCL	Unit 2 was removed from the PGandE system and entered Mode 2 to repair a hydrogen leak in the generator stator cooling system. The leakage source was identified and repaired and the unit returned to service.

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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)

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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

March 13, 1987

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: Docket No. 50-275 and 50-323
License No. DPR-80 and DPR-82
Monthly Operating Report for February, 1987

Gentlemen:

Enclosed are the completed monthly operating report forms for Diablo Canyon Units 1 and 2 for February, 1987. 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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