

Pacific Gas and Electric Company

Diablo Canyon Power Plant
P.O. Box 56
Avila Beach, CA 93424
805/541-7616



December 12, 1990

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 November 1990

Gentlemen:

Enclosed are the completed monthly operating report forms for Diablo Canyon Units 1 and 2 for November 1990. This report is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Sincerely,

D. Miklusch for JDT

JDT:pgd

Enclosures

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

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PDR ADOCK 05000275
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MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the the month of November 1990. 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 (TS).

Narrative of Daily Significant Plant Events

- On November 1, 1990: Unit 1 started the month at 100% power and Unit 2 started the month at 54% power due to the leak repair of the CVCS letdown line.
- On November 3, 1990: Unit 1 ramped down to 50% power for condenser cleaning.
- On November 4, 1990: Units 1 and 2 returned to 100% power.
- On November 10, 1990: Unit 2 ramped down to 50% power for condenser cleaning.
- On November 11, 1990: Unit 2 returned to 100% power.
- On November 17, 1990: Unit 2 ramped down to 50% power to scrape and clean the circulating water pump 2-2 discharge tunnel.
- On November 18, 1990: Unit 2 returned to 100% power.
- On November 24, 1990: Unit 1 ramped down to 50% power for condenser cleaning.
- On November 25, 1990: Unit 1 returned to 100% power.
- On November 30, 1990: Units 1 and Unit 2 ended the month at 100% power.

Summary of Plant Operating Characteristics, Power Reductions and Unit Shutdowns

Unit 1 operated this month with a unit availability factor of 100.0% and a unit capacity factor of 97.28%. Unit 1 reduced power twice this month for condenser cleaning.

Unit 2 operated this month with a unit availability factor of 100.0% and a unit capacity factor of 89.7%. Unit 2 reduced power twice this month for cleaning of the condenser and of the circulating water pump 2-2 discharge tunnel.

Summary of Significant Safety Related Maintenance

- o No significant safety related maintenance occurred for Unit 1.
- o Completed minor leak repair on Unit 2 CVCS letdown line.

Adjustments of Steam Generator Safety Valves or Pressurizer Power Operated Relief Valves

None.

OPERATING DATA REPORT

DOCKET NO. 50-275
 DATE 12/01/90
 COMPLETED BY T. C. Joyce
 TELEPHONE (805) 545-4139

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: November 1990
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): 1124
7. Maximum Dependable Capacity (Net MWe): 1073.4
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: N/A

	This Month	Year to Date	Cumulative
11. Hours in Reporting Period	720.0	8016.0	48814.3
12. Number Of Hours Reactor Was Critical	720.0	7904.0	40516.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	720.0	7840.7	39773.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2364987	25396634	123469962
17. Gross Electrical Energy Generated	789000	8563900	41587332
18. Net Electrical Energy Generated	751419	8147396	39413959
19. Unit Service Factor	100.0	97.8	81.5
20. Unit Availability Factor	100.0	97.8	81.5
21. Unit Capacity Factor (Using MDC Net)	97.2	94.7	75.2
22. Unit Capacity Factor (Using DER Net)	96.1	93.6	74.3
23. Unit Forced Outage Rate	0.0	2.2	3.7
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling, February 1991, 60 days

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

OPERATING DATA REPORT

DOCKET NO. 50-323
 DATE 12/01/90
 COMPLETED BY T. C. Joyce
 TELEPHONE (805)545-4139

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: November 1990
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): 1137
7. Maximum Dependable Capacity (Net MWe): 1087
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: N/A

	This Month	Year to Date	Cumulative
11. Hours in Reporting Period	720.0	8016.0	41373.0
12. Number Of Hours Reactor Was Critical	720.0	6688.9	33932.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	720.0	6541.1	33189.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated	2242075	21322446	107242399
17. Gross Electrical Energy Generated	737200	7099300	35724399
18. Net Electrical Energy Generated	702126	6758681	33869309
19. Unit Service Factor	100.0	81.6	80.2
20. Unit Availability Factor	100.0	81.6	80.2
21. Unit Capacity Factor (Using MDC Net)	89.7	77.6	75.5
22. Unit Capacity Factor (Using DER Net)	87.2	75.4	73.2
23. Unit Forced Outage Rate	0.0	0.3	6.0
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each)			

None.

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-275
 UNIT 1
 DATE 12/01/90
 COMPLETED BY T. C. JOYCE
 TELEPHONE (805) 545-4139

MONTH NOVEMBER 1990

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1056	16	1064
2	1056	17	1060
3	999	18	1060
4	809	19	1056
5	1064	20	1060
6	1069	21	1060
7	1064	22	1060
8	1068	23	1056
9	1065	24	1015
10	1065	25	878
11	1060	26	1068
12	1065	27	1065
13	1060	28	1060
14	1060	29	1060
15	1064	30	1064

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 NOV. 1990 = 1043 MWe-Net

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-323
 UNIT 2
 DATE 12/01/90
 COMPLETED BY T. C. JOYCE
 TELEPHONE (805)545-4139

MONTH: NOVEMBER 1990

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	478	16	1054
2	568	17	491
3	600	18	550
4	838	19	1009
5	1079	20	1083
6	1088	21	1087
7	1088	22	1084
8	1088	23	1084
9	1083	24	1087
10	1067	25	1083
11	899	26	1084
12	1088	27	1084
13	1088	28	1088
14	1084	29	1084
15	1084	30	1084

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 NOV. 1990 = 975 MWe-Net

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-275
UNIT NAME Diablo Canyon Unit 1
DATE 12/01/90
COMPLETED BY P.G. DAHAN
TELEPHONE (805) 545-4054

REPORT MONTH NOVEMBER 1990

No.	Date	1 Type	Duration (Hours)	2 Reason	Method of 3 Shutdown	Licensee Event Report #	System 4 Code	Component 5 Code	Cause & Corrective Action to Prevent Recurrence
1.	901103	S	0	B	5	N/A	SD	COND	Unit 1 ramp down to 50% power for condenser cleaning.
2.	901124	S	0	B	5	N/A	SD	COND	Unit 1 ramp down to 50% power for condenser cleaning.

1 Type: 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
Page 1 of 1

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 12/01/90
COMPLETED BY P.G. DAHAN
TELEPHONE (805) 545-4054

REPORT MONTH NOVEMBER 1990

No.	Date	1 Type	Duration (Hours)	2 Reason	Method of 3 Shutdown	Licensee Event Report #	System 4 Code	Component 5 Code	Cause & Corrective Action to Prevent Recurrence
1	901110	S	0	B	5	N/A	SG	COND	Unit 2 ramped down to 50% power for condenser cleaning.
2	901117	S	0	B	5	N/A	Si	p	Unit 2 ramped down to 50% power to scrape and clean the circulating water pump discharge tunnel.

1
Type:
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

DATE: 12/01/90

REFUELING INFORMATION REQUEST

1. Name of facility: Diablo Canyon Unit 1
2. Scheduled date for next refueling shutdown: February 1991 (estimated)
3. Scheduled date for restart following refueling: April 1991 (estimated)
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? If answer is yes, what, in general, will there be? If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)? If no such review has taken place, when is it scheduled?
No. The PSRC is scheduled to review the cycle 5 core reload in February 1991 (estimated).
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
N/A
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures:
 1. LAR requesting implementation of power-dependant Reactor Coolant System flow rate limits will be submitted in December 1990.
 2. LAR requesting revision of surveillance requirements for Flow Balancing of the ECCS subsystems associated with the centrifugical and safety injection pumps will be submitted in December 1990.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

(a) 193 (b) 200
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:

Present 1324 Increase size by 0
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

Date: 2012 (Loss of full core off-load capability)

DATE: 12/01/90

REFUELING INFORMATION REQUEST

1. Name of facility: Diablo Canyon Unit 2
2. Scheduled date for next refueling shutdown: September 1991 (estimated)
3. Scheduled date for restart following refueling: December 1991 (estimated)
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? If answer is yes, what, in general, will there be? If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)? If no such review has taken place, when is it scheduled?
No. The PSRC is scheduled to review the cycle 5 core reload in September 1991 (estimated).
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
N/A
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures:
 1. LAR requesting implementation of power-dependant Reactor Coolant System flow rate limits will be submitted in December 1990.
 2. LAR requesting revision of surveillance requirements for Flow Balancing of the ECCS subsystems associated with the centrifugical and safety injection pumps will be submitted in December 1990.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

(a) 193 (b) 224
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:

Present 1324 Increase size by 0
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

Date: 2012 (Loss of full core off-load capability)