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50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Ga 05000323
AUTH.NAME AUTHOR AFFILIATION
DAHAN,P.G. Pacific Gas & Electric Co.
TOWNSEND,J.D. Pacific Gas & Electric Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Dec 1992 for Diablo Canyon Units 1 & 2.W/930113 ltr.

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Pacific Gas and Electric Company

Diablo Canyon Power Plant
P.O. Box 56
Avila Beach, CA 93424
805/545-6000

John D. Townsend
Vice President–Diablo Canyon
Operations and Plant Manager

January 13, 1993

U.S. NUCLEAR REGULATORY COMMISSION
Attention: 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 December 1992

GENTLEMEN:

Enclosed are the monthly operating reports for Diablo Canyon Units 1 and 2 for December 1992. This report is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Sincerely,

D. Mikkelsen for JDT

JDT:pgd

Enclosures

cc Mr. John B. Martin, Regional Administrator
U.S. Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, CA 94596-5268

Ms. Liz Hannon, President
Utility Data Institute, Inc.
1700 K Street, NW, Suite 400
Washington, DC 20006

IE24

MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of December 1992. 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.

Narrative of Daily Significant Plant Events

On December 1, 1992:	Unit 1 and Unit 2 started the month in Mode 1 (Power Operation) at 100% power.
On December 3, 1992:	A 10 CFR 50.72(b)(ii)(B) non-emergency, one-hour report was made regarding trip breaker seismic restraint clips on Unit 1 not installed per design. The seismic restraint clips were subsequently reinstalled. Subsequent evaluation determined the seismic clips not to be required for reactor trip breaker operability.
On December 20 1992:	Unit 1 ramped down to take the unit off line and separate the unit from the grid. This action was taken to repair the 500KV Main Transformer Bank (MTB) "B" phase neutral ground mechanical connection which was found damaged.
On December 21, 1992:	The 500KV Main Transformer Bank (MTB) "B" phase neutral ground mechanical connection was repaired and at 0533 PST Unit 1 was paralleled to the grid and returned to 100% power.
On December 22, 1992:	A 10 CFR 50.72 (b)(2)(iii)(D) non-emergency, four-hour report was made regarding an evaluation performed in response to Limitorque 10 CFR Part 21 letter concerning SMB00 and SMB000 Limitorque actuators declutching during a seismic event.
On December 31, 1992:	Unit 1 and Unit 2 ended the month in Mode 1 (Power Operation) at 100% power.

Summary of Plant Operating Characteristics, Power Reductions and Unit Shutdowns

Unit 1 operated this month with a unit availability factor of 98.6% and a unit capacity factor (using MDC Net) of 98.1%. Unit 1 reduced power once this month by more than 20% when the Unit was isolated from the grid for repair of the 500KV Main Transformer Bank (MTB) "B" phase neutral ground mechanical connection.

Unit 2 operated this month with a unit availability factor of 100% and a unit capacity factor (using MDC Net) of 100.3%. Unit 2 did not reduce power by more than 20% this month.

Summary of Significant Safety Related Maintenance

There was no significant Unit 1 safety related maintenance.

There was no significant Unit 2 safety related maintenance.

Actuations of Steam Generator Safety or Pressurizer Power Operated Relief Valves

There were no challenges to the steam generator safety valves or the pressurizer power operated relief valves.

OPERATING DATA REPORT

DOCKET NO.	50-275
UNIT	1
DATE	01/01/93
COMPLETED BY	P. DAHAN
TELEPHONE	(805) 545-4054

OPERATING STATUS

1.	Unit Name:	Diablo Canyon Unit 1
2.	Reporting Period:	December 1992
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 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	YTD	Cumulative
11.	Hours In Reporting Period	744.0	8784.0	67102.3
12.	Number Of Hours Reactor Was Critical	744.0	7297.5	55612.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	733.5	7226.9	54712.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2428355	23392856	171741302
17.	Gross Electrical Energy Generated (MWH)	822300	7848800	57791032
18.	Net Electrical Energy Generated (MWH)	783257	7450388	54788548
19.	Unit Service Factor	98.6	82.3	81.5
20.	Unit Availability Factor	98.6	82.3	81.5
21.	Unit Capacity Factor (Using MDC Net)	98.1	79.0	76.1
22.	Unit Capacity Factor (Using DER Net)	96.9	78.1	75.2
23.	Unit Forced Outage Rate	1.4	1.8	3.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): None.

25. If Shut Down At End Of Report Period, Estimate Date of Startup: Not applicable

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-275
UNIT	1
DATE	01/01/93
COMPLETED BY	P. DAHAN
TELEPHONE	(805) 545-4054

December 1992	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
	1	1081
	2	1072
	3	1068
	4	1059
	5	1077
	6	1081
	7	1076
	8	1076
	9	1077
	10	1072
	11	1077
	12	1077
	13	1077
	14	1077
	15	1080
	16	1077
	17	1072
	18	1085
	19	1090
	20	770
	21	620
	22	1084
	23	1085
	24	1081
	25	1073
	26	1081
	27	1081
	28	1077
	29	1081
	30	1072
	31	1081

The average monthly Electrical Power Level for December 1992 = 1053 MWe-Net

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-275
UNIT 1
DATE 01/01/93
COMPLETED BY P.G. DAHAN
TELEPHONE (805) 545-4054

REPORT MONTH: December 1992

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	921220	S	10.5	A	5	N/A	EL	XMFR	Unit 1 ramped down to repair a 500KV Main Transformer Bank (MTB) "B" phase neutral ground Mechanical connection.

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-Other

4
EIIS Systems List, Table 1

5
IEEE Std. 803A-1983, "IEEE Recommended Practice for Unique Identification in Power Plants and Related Facilities - Table 2"

OPERATING DATA REPORT

DOCKET NO.	50-323
UNIT	2
DATE	01/01/93
COMPLETED BY	P. DAHAN
TELEPHONE	(805) 545-4054

OPERATING STATUS

1.	Unit Name:	Diablo Canyon Unit 2
2.	Reporting Period:	December 1992
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 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	YTD	Cumulative
11.	Hours In Reporting Period	744.0	8784.0	59661.0
12.	Number Of Hours Reactor Was Critical	744.0	8672.9	50835.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	744.0	8651.8	50005.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2534755	29070841	163301821
17.	Gross Electrical Energy Generated (MWH)	848300	9681800	54345399
18.	Net Electrical Energy Generated (MWH)	811057	9247732	51633601
19.	Unit Service Factor	100.0	98.5	83.8
20.	Unit Availability Factor	100.0	98.5	83.8
21.	Unit Capacity Factor (Using MDC Net)	100.3	96.9	79.8
22.	Unit Capacity Factor (Using DER Net)	97.4	94.1	77.3
23.	Unit Forced Outage Rate	0.0	1.5	4.3

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling Outage March 1, 1993.

25. If Shut Down At End Of Report Period, Estimate Date of Startup: Not applicable.

OPERATING DATA REPORT

DOCKET NO.	50-323
UNIT	2
DATE	01/01/93
COMPLETED BY	P. DAHAN
TELEPHONE	(805) 545-4054

OPERATING STATUS

1.	Unit Name:	Diablo Canyon Unit 2
2.	Reporting Period:	December 1992
3.	Licensed Thermal Power (MWt):	3411
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9.	Power level to which restricted, if any (Net MWe):	N/A
10.	Reasons for restrictions, if any:	N/A

		This Month	YTD	Cumulative
11.	Hours In Reporting Period	744.0	8784.0	59661.0
12.	Number Of Hours Reactor Was Critical	744.0	8672.9	50835.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	744.0	8651.8	50005.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2534755	29070841	163301821
17.	Gross Electrical Energy Generated (MWH)	848300	9681800	54345399
18.	Net Electrical Energy Generated (MWH)	811057	9247732	51633601
19.	Unit Service Factor	100.0	98.5	83.8
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21.	Unit Capacity Factor (Using MDC Net)	100.3	96.9	79.8
22.	Unit Capacity Factor (Using DER Net)	97.4	94.1	77.3
23.	Unit Forced Outage Rate	0.0	1.5	4.3

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling Outage March 1, 1993.

25. If Shut Down At End Of Report Period, Estimate Date of Startup: Not applicable.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-323
UNIT	2
DATE	01/01/93
COMPLETED BY	P.G. DAHAN
TELEPHONE	(805) 545-4054

December 1992	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
	1	1092
	2	1088
	3	1096
	4	1087
	5	1092
	6	1087
	7	1092
	8	1092
	9	1091
	10	1087
	11	1087
	12	1088
	13	1092
	14	1091
	15	1096
	16	1088
	17	1092
	18	1092
	19	1092
	20	1087
	21	1088
	22	1096
	23	1087
	24	1092
	25	1092
	26	1092
	27	1087
	28	1092
	29	1088
	30	1087
	31	1088

The average monthly Electrical Power Level for December 1992 = 1090 MWe-Net

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-323
UNIT 2
DATE 01/01/93
COMPLETED BY P. G. DAHAN
TELEPHONE (805) 545-4054

REPORT MONTH: December 1992

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
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)

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Method:
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4-Continuation from previous month
5-Power reduction
6-Other

4
EIIS Systems List, Table 1

5
IEEE Std. 803A-1983, "IEEE Recommended Practice for Unique Identification in Power Plants and Related Facilities - Table 2"

REFUELING INFORMATION REQUEST

DOCKET NO.	50-275
UNIT	1
DATE	01/01/93
COMPLETED BY	M. L. Mayer
TELEPHONE	(805) 545-4674

1. Name of facility: Diablo Canyon Unit 1

2. Scheduled date for next refueling shutdown: March 8, 1994 (estimated).

3. Scheduled date for restart following refueling: May 4, 1994 (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 7 core reload on April 4, 1994 (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: N/A

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

   (a) 193 (b) 376

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: 2006 (Loss of full core offload capability)

REFUELING INFORMATION REQUEST

DOCKET NO.	50-323
UNIT	2
DATE	01/01/93
COMPLETED BY	M. L. Mayer
TELEPHONE	(805) 545-4674

1. Name of facility: Diablo Canyon Unit 2

2. Scheduled date for next refueling shutdown: March 1, 1993 (estimated)

3. Scheduled date for restart following refueling: May 1993 (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 will review the cycle 6 core reload in February 1993 (estimated).

5. Scheduled date(s) for submitting proposed licensing action and supporting information: NA

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: NA

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

   (a) 193 (b) 350

   In addition six new fuel assemblies are in storage in the storage vault.

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: 2006 (Loss of full core offload capability)