

MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of March 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 March 1, 1990: Unit 1 started the month at 100% power and Unit 2 started the month at 100% power.
- On March 3, 1990: Unit 2 commenced ramping down in power for the third refueling outage 2R3.
- On March 4, 1990: Unit 2 entered Mode 2 (STARTUP), then Mode 3 (HOT STANDBY) and then Mode 4 (HOT SHUTDOWN).
- On March 5, 1990: Unit 2 entered Mode 5 (COLD SHUTDOWN).
- On March 7, 1990: A 10 CFR 50.72(b)(2)(iv) Non-Emergency 4 Hour report was made regarding a Fuel Handling Building ventilation system transfer to the iodine removal mode due to modifications being installed which required deenergization of the Post Accident Monitoring panel; this deenergized the fail-safe relay (high radiation or loss of power) causing the transfer. For more information see Licensee Event Report (LER) 2-90-001.
- On March 9, 1990: Unit 2 entered mode 6 (REFUELING). Unit 1 entered Technical Specification 3.0.3 for 7 minutes when an operator inadvertently isolated 3 out of 3 steam line pressure transmitters for steam generator 1-4 while working to a Unit 2 equipment clearance. For more information see LER 1-90-004.
- On March 14, 1990: Unit 2 fuel off-loading complete.
- On March 27, 1990: Unit 1 ramped down to 50% power to repair a main condenser tube leak.
- On March 28, 1990: Unit 1 returned to 100% power.
- On March 29, 1990: Unit 2 entered Mode 6 (REFUELING); fuel reloading commenced.

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On March 31, 1990: Unit 2 fuel reloading complete. Unit 1 ended the month at 100% power and Unit 2 ended the month at 0% 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 99.9%. Unit 1 reduced power once this month to repair a main condenser tube leak.

Unit 2 operated this month with a unit availability factor of 9.8% and a unit capacity factor of 9.1%. Unit 2 reduced power once this month for refueling (2R3).

Summary of Significant Safety Related Maintenance

- o No significant safety related maintenance occurred for Unit 1.
- o The Unit 2 steam generators were cleaned of sludge and the tubes were eddy current tested with no indications detected.
- o Sixty two Unit 2 snubbers were tested, only 1 failed.

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

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



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OPERATING DATA REPORT

DOCKET NO. 50-275
 DATE 04/02/90
 COMPLETED BY T. C. Joyce
 TELEPHONE (805)595-4139

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: March 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	<u>744.0</u>	<u>2160.0</u>	<u>42958.3</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>2125.4</u>	<u>34738.3</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>2116.9</u>	<u>34049.6</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated	<u>2465768</u>	<u>6936794</u>	<u>105010121</u>
17. Gross Electrical Energy Generated	<u>837500</u>	<u>2359400</u>	<u>35382832</u>
18. Net Electrical Energy Generated	<u>798107</u>	<u>2246052</u>	<u>33512615</u>
19. Unit Service Factor	<u>100.0</u>	<u>98.0</u>	<u>79.3</u>
20. Unit Availability Factor	<u>100.0</u>	<u>98.0</u>	<u>79.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.9</u>	<u>96.9</u>	<u>72.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>98.8</u>	<u>95.8</u>	<u>71.8</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>2.0</u>	<u>3.9</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>None</u>		

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



OPERATING DATA REPORT

DOCKET NO. 50-323
 DATE 04/02/90
 COMPLETED BY T. C. Joyce
 TELEPHONE (805) 595-4139

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: March 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	<u>744.0</u>	<u>2160.0</u>	<u>35517.0</u>
12. Number Of Hours Reactor Was Critical	<u>73.5</u>	<u>1489.5</u>	<u>28732.7</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>73.0</u>	<u>1489.0</u>	<u>28136.9</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated	<u>236693</u>	<u>5031443</u>	<u>90951396</u>
17. Gross Electrical Energy Generated	<u>80500</u>	<u>1697100</u>	<u>30322199</u>
18. Net Electrical Energy Generated	<u>73214</u>	<u>1617252</u>	<u>28727880</u>
19. Unit Service Factor	<u>9.8</u>	<u>68.9</u>	<u>79.2</u>
20. Unit Availability Factor	<u>9.8</u>	<u>68.9</u>	<u>79.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>9.1</u>	<u>68.9</u>	<u>74.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>8.8</u>	<u>66.9</u>	<u>72.3</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>7.0</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each)			

Refueling, 03/03/90, 63 days

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 05/05/90



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-275
 UNIT 1
 DATE 04/02/90
 COMPLETED BY P. Bedesem
 TELEPHONE (805)595-4097

MONTH: MARCH 1990

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1084	17	1081
2	1080	18	1081
3	1080	19	1081
4	1085	20	1080
5	1080	21	1077
6	1080	22	1076
7	1080	23	1076
8	1084	24	1080
9	1076	25	1080
10	1077	26	1080
11	1085	27	1021
12	1080	28	898
13	1081	29	1084
14	1089	30	1080
15	1077	31	1080
16	1082		

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 March 90 = 1073 MWe-Net



UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-275
 UNIT NAME Diablo Canyon Unit 1
 DATE 04/02/90
 COMPLETED BY J. Nolan
 TELEPHONE (805) 595-4509

REPORT MONTH MARCH 1990

No.	Date	1 Type	Duration (Hours)	2 Reason	3 Method of Shutdown	Licensee Event Report #	System 4 Code	Component 5 Code	Cause & Corrective Action to Prevent Recurrence
1	900327	S	0	A	5	N/A	SG	COND	Unit 1 reduced power to 50% to plug leaking main condenser tubes.

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 04/02/90
 COMPLETED BY J. Nolan
 TELEPHONE (805)595-4509

REPORT MONTH MARCH 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	903030	S	671.0	C	1	N/A	AB	RCT	Unit 2 was manually shut down for refueling (2R3).

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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DATE: 04/02/90

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: May 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:

N/A

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 offload capability)



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DATE: 04/02/90

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 reviewed the cycle 4 core reload on March 27, 1990.

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) 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 offload capability)

