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50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Ga 05000323
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JOYCE,T.C. Pacific Gas & Electric Co.
TOWNSEND,J.D. Pacific Gas & Electric Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Aug 1990 for Diablo Canyon Units 1 & 2.W/900912 ltr.

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**Pacific Gas and Electric Company**

Diablo Canyon Power Plant
P.O. Box 56
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805/595-7351

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

September 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 August 1990

Gentlemen:

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

Sincerely,

W Schuber for
John D. Townsend

PGDahan:rij

Enclosure

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



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MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of August 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 August 1, 1990: Unit 1 and Unit 2 started the month at 100% power.

On August 17, 1990: Unit 2 ramped down to ~50% power to clean the condenser.

On August 18, 1990: Unit 1 ramped down to ~50% power to clean the condenser. Unit 2 returned to 100% power.

On August 19, 1990: Unit 1 returned to 100% power.

On August 31, 1990: Unit 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 99.3%. Unit 1 reduced power once this month for condenser cleaning.

Unit 2 operated this month with a unit availability factor of 100.0% and a unit capacity factor of 98.2%. Unit 2 reduced power once this month for condenser cleaning.

Summary of Significant Safety Related Maintenance

- No significant safety related maintenance occurred for Unit 1.
- No significant safety related maintenance occurred for Unit 2.

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

None.

OPERATING DATA REPORT

DOCKET NO. 50-275
DATE 09/01/90
COMPLETED BY T. C. Joyce
TELEPHONE (805)595-4139

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: August 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 | 744.0 | 5831.0 | 46629.3 |
| 12. | Number Of Hours Reactor Was Critical | 744.0 | 5719.0 | 38331.8 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator On-Line | 744.0 | 5655.7 | 37588.4 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated (MWH) | 2466793 | 18196263 | 116269591 |
| 17. | Gross Electrical Energy Generated | 831600 | 6156500 | 39179932 |
| 18. | Net Electrical Energy Generated | 792753 | 5854166 | 37120729 |
| 19. | Unit Service Factor | 100.0 | 97.0 | 80.6 |
| 20. | Unit Availability Factor | 100.0 | 97.0 | 80.6 |
| 21. | Unit Capacity Factor (Using MDC Net) | 99.3 | 93.5 | 74.1 |
| 22. | Unit Capacity Factor (Using DER Net) | 98.1 | 92.5 | 73.3 |
| 23. | Unit Forced Outage Rate | 0.0 | 3.0 | 3.9 |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
    February 1991
25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

# OPERATING DATA REPORT

DOCKET NO. 50-323
DATE 09/01/90
COMPLETED BY T. C. Joyce
TELEPHONE (805)595-4139

## OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: August 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 | 744.0 | 5831.0 | 39188.0 |
| 12. | Number Of Hours Reactor Was Critical | 744.0 | 4503.9 | 31747.0 |
| 13. | Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 14. | Hours Generator On-Line | 744.0 | 4356.1 | 31004.0 |
| 15. | Unit Reserve Shutdown Hours | 0.0 | 0.0 | 0.0 |
| 16. | Gross Thermal Energy Generated | 2506381 | 14259473 | 100179427 |
| 17. | Gross Electrical Energy Generated | 831000 | 4762800 | 33387899 |
| 18. | Net Electrical Energy Generated | 794183 | 4529075 | 31639703 |
| 19. | Unit Service Factor | 100.0 | 74.7 | 79.1 |
| 20. | Unit Availability Factor | 100.0 | 74.7 | 79.1 |
| 21. | Unit Capacity Factor (Using MDC Net) | 98.2 | 71.5 | 74.5 |
| 22. | Unit Capacity Factor (Using DER Net) | 95.4 | 69.4 | 72.2 |
| 23. | Unit Forced Outage Rate | 0.0 | 0.5 | 6.4 |

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 09/01/90
COMPLETED BY T. C. JOYCE
TELEPHONE (805)595-4139

MONTH: AUGUST 1990

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|---|---|---|---|
| 1 | 1081 | 16 | 1060 |
| 2 | 1081 | 17 | 1064 |
| 3 | 1081 | 18 | 854 |
| 4 | 1077 | 19 | 1072 |
| 5 | 1083 | 20 | 1073 |
| 6 | 1077 | 21 | 1073 |
| 7 | 1073 | 22 | 1077 |
| 8 | 1077 | 23 | 1069 |
| 9 | 1073 | 24 | 1073 |
| 10 | 1068 | 25 | 1073 |
| 11 | 1073 | 26 | 1073 |
| 12 | 1068 | 27 | 1068 |
| 13 | 1069 | 28 | 1069 |
| 14 | 1069 | 29 | 1072 |
| 15 | 1064 | 30 | 1073 |
| | | 31 | 1076 |

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 August 1990 = 1066 MWe-Net

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-323
UNIT 2
DATE 09/01/90
COMPLETED BY T. C. JOYCE
TELEPHONE (805)595-4139

MONTH: AUGUST 1990

| DAY | AVERAGE DAILY POWER LEVEL | DAY | AVERAGE DAILY POWER LEVEL |
|---|---|---|---|
| 1 | 1088 | 16 | 1071 |
| 2 | 1084 | 17 | 956 |
| 3 | 1080 | 18 | 742 |
| 4 | 1084 | 19 | 1083 |
| 5 | 1080 | 20 | 1087 |
| 6 | 1084 | 21 | 1088 |
| 7 | 1080 | 22 | 1088 |
| 8 | 1079 | 23 | 1092 |
| 9 | 1072 | 24 | 1088 |
| 10 | 1071 | 25 | 1088 |
| 11 | 1076 | 26 | 1087 |
| 12 | 1071 | 27 | 1092 |
| 13 | 1075 | 28 | 1088 |
| 14 | 1076 | 29 | 1092 |
| 15 | 1066 | 30 | 1092 |
| | | 31 | 1092 |

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 August 1990 = 1067 MWe-Net

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-275
UNIT NAME Diablo Canyon Unit 1
DATE 09/01/90
COMPLETED BY P.G. DAHAN
TELEPHONE (805) 595-4054

REPORT MONTH AUGUST 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. | 900918 | S | 0 | B | 5 | N/A | SL | P | Unit 1 ramped down to ~50% power to clean the condenser. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| Type: | Reason: | Method: | Exhibit G - Instructions |
| F-Forced | A-Equipment Failure (Explain) | 1-Manual | for Preparation of Data |
| S-Scheduled | B-Maintenance or Test | 2-Manual Scram | Entry Sheets for Licensee |
| | C-Refueling | 3-Automatic Scram | Event Report (LER) File |
| | D-Regulatory Restriction | 4-Continuation from | (NUREG-1022) |
| | E-Operator Training & License Examination | previous month | |
| | F-Administrative | 5-Power reduction | 5 |
| | G-Operational Error (Explain) | 6,7,8-N/A | Exhibit I - Same Source |
| | H-Other (Explain) | 9-Other | |

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 09/01/90
COMPLETED BY P.G. DAHAN
TELEPHONE (805) 595-4054

REPORT MONTH AUGUST 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 | 900917 | S | 0 | B | 5 | N/A | SL | P | Unit 2 ramped down to ~50% power to clean the condenser. |

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: 09/01/90

# 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: 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)

DATE: 09/01/90

# 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:

   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)