



Southern California Edison Company

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August 15, 1995

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U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for July 1995
San Onofre Nuclear Generating Station, Units 2 and 3

Technical Specification 6.9.1.10 of Facility Operating Licenses NPF-10 and NPF-15 for the San Onofre Nuclear Generating Station, Units 2 and 3, respectively, requires Edison to provide a Monthly Operating Report for each Unit, which includes: routine operating statistics and shutdown experience; all challenges to safety valves; any changes to the Offsite Dose Calculation Manual (ODCM); and any major changes to the radioactive waste treatment system. All covered activities are reported monthly, except for ODCM changes, which are reported within 90 days from the time the changes are effective.

This letter transmits the July 1995 Monthly Operating Reports for Units 2 and 3, respectively. There were no challenges to safety valves, and no major changes to the Units 2 and 3 radioactive waste treatment systems during the reporting period.

If you require any additional information, please let me know.

Sincerely,

Walter C. Marsh

Enclosures

cc: L. J. Callan, Regional Administrator, NRC Region IV
J. E. Dyer, Director, Division of Reactor Projects, NRC Region IV
K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC Region IV
M. B. Fields, NRC Project Manager, Units 2 and 3
J. A. Sloan, Senior NRC Resident Inspector, San Onofre Units 2 & 3

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NRC MONTHLY OPERATING REPORT
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: July 1995
3. Licensed Thermal Power (MWt): 3390
4. Nameplate Rating (Gross MWe): 1127
5. Design Electrical Rating (Net MWe): 1070
6. Maximum Dependable Capacity (Gross MWe): 1127
7. Maximum Dependable Capacity (Net MWe): 1070
8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7)
Since Last Report, Give Reasons: NA
9. Power Level To Which Restricted, If Any (Net MWe): NA
10. Reasons For Restrictions, If Any: NA

| | This Month | Yr.-to-Date | Cumulative |
|--|--------------|--------------|----------------|
| 11. Hours In Reporting Period | 744.00 | 5,087.00 | 104,784.00 |
| 12. Number Of Hours Reactor Was Critical | 744.00 | 3,121.40 | 79,895.99 |
| 13. Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. Hours Generator On-Line | 744.00 | 2,559.32 | 78,190.66 |
| 15. Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 16. Gross Thermal Energy Generated (MWH) | 2,497,939.27 | 8,087,790.34 | 255,465,646.19 |
| 17. Gross Electrical Energy Generated (MWH) | 852,799.00 | 2,718,989.00 | 86,570,488.50 |
| 18. Net Electrical Energy Generated (MWH) | 813,752.00 | 2,542,855.04 | 82,106,949.91 |
| 19. Unit Service Factor | 100.00% | 50.31% | 74.62% |
| 20. Unit Availability Factor | 100.00% | 50.31% | 74.62% |
| 21. Unit Capacity Factor (Using MDC Net) | 102.22% | 46.72% | 73.23% |
| 22. Unit Capacity Factor (Using DER Net) | 102.22% | 46.72% | 73.23% |
| 23. Unit Forced Outage Rate | 0.00% | 3.33% | 5.43% |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | | | |

25. If Shutdown At End Of Report Period, Estimated Date of Startup:

26. Units In Test Status (Prior To Commercial Operation): Forecast Achieved

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

| | |
|----|----|
| NA | NA |
| NA | NA |
| NA | NA |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: July 1995

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|
| 1 | 1138.54 |
| 2 | 1096.08 |
| 3 | 1098.00 |
| 4 | 1098.29 |
| 5 | 1101.38 |
| 6 | 1102.71 |
| 7 | 1101.08 |
| 8 | 1102.75 |
| 9 | 1102.63 |
| 10 | 1103.21 |
| 11 | 1105.25 |
| 12 | 1104.71 |
| 13 | 1101.29 |
| 14 | 1098.13 |
| 15 | 1005.92 |

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|
| 16 | 1028.17 |
| 17 | 1096.96 |
| 18 | 1102.63 |
| 19 | 1106.04 |
| 20 | 1104.33 |
| 21 | 1103.58 |
| 22 | 1101.96 |
| 23 | 1104.96 |
| 24 | 1100.58 |
| 25 | 1095.25 |
| 26 | 1097.29 |
| 27 | 1097.96 |
| 28 | 1094.96 |
| 29 | 1069.38 |
| 30 | 1093.29 |
| 31 | 1049.04 |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361

UNIT NAME: SONGS - 2

REPORT MONTH: July 1995

DATE: August 15, 1995

COMPLETED BY: R. L. Kaplan

TELEPHONE: (714) 368-6834

| No. | Date | Type ¹ | Duration (Hours) | Reason ² | Method of Shutting Down Reactor ³ | LER No. | System Code ⁴ | Component Code ⁵ | Cause & Corrective Action to Prevent Recurrence |
|-----|------|-------------------|---------------------|---------------------|---|------------|-----------------------------|--------------------------------|---|
|-----|------|-------------------|---------------------|---------------------|---|------------|-----------------------------|--------------------------------|---|

There were no unit shutdowns or reductions in the Average Daily Power Level of more than 20% this reporting period.

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuation from
Previous Month
5-Reduction in the Average
Daily Power Level of more
than 20% from the previous day
6-Other (Explain)

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

| <u>Date</u> | <u>Time</u> | <u>Event</u> |
|-------------|-------------|--|
| July | 01 0001 | Unit is in Mode 1, 99.8% reactor power, 1043 MWe. |
| | 0105 | Commenced turbine load increase to full load after completing turbine valve testing. |
| July | 15 1530 | Commenced reducing reactor power to 80% for circulating water system heat treatment. |
| | 1830 | Unit at 80% reactor power for circulating water system heat treatment. |
| July | 16 0450 | Circulating Water System Heat Treatment complete. Commenced raising reactor power. |
| July | 16 0850 | Unit at full load, reactor power 99.3%, 1145 MWe. |
| July | 31 2400 | Unit is in Mode 1, reactor power 99.7%, 1146 MWe. |

REFUELING INFORMATION

| | |
|---------------|-----------------|
| DOCKET NO: | 50-361 |
| UNIT NAME: | SONGS - 2 |
| DATE: | August 15, 1995 |
| COMPLETED BY: | R. L. Kaplan |
| TELEPHONE: | (714) 368-6834 |

MONTH: July 1995

1. Scheduled date for next refueling shutdown.

Cycle 9 refueling outage is forecast for November 1996.

2. Scheduled date for restart following refueling.

Restart from Cycle 9 refueling outage is forecast for January 1997.

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Unknown at this time.

What will these be?

Unknown at this time.

4. Scheduled date for submitting proposed licensing action and supporting information.

Unknown at this time.

5. 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.

Unknown at this time.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

6. The number of fuel assemblies.

A. In the core. 217

B. In the spent fuel storage pool. 770 Total Fuel Assemblies
700 Unit 2 Spent Fuel Assemblies
0 Unit 2 New Fuel Assemblies
70 Unit 1 Spent Fuel Assemblies

C. In the New Fuel Storage Racks Zero Unit 2 New Fuel Assemblies

7. Licensed spent fuel storage capacity. 1542

Intended change in spent fuel storage capacity. None

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

Approximately 2005 (full off-load capability)

NRC MONTHLY OPERATING REPORT
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3

DOCKET NO: 50-352
UNIT NAME: SONGS - 3
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: July 1995
3. Licensed Thermal Power (MWt): 3390
4. Nameplate Rating (Gross MWe): 1127
5. Design Electrical Rating (Net MWe): 1080
6. Maximum Dependable Capacity (Gross MWe): 1127
7. Maximum Dependable Capacity (Net MWe): 1080
8. If Changes Occur In Capacity Ratings (Items Number 3 Through 7)
Since Last Report, Give Reasons: NA
9. Power Level To Which Restricted, If Any (Net MWe): NA
10. Reasons For Restrictions, If Any: NA

| | This Month | Yr.-to-Date | Cumulative |
|--|--------------|---------------|----------------|
| 11. Hours In Reporting Period | 744.00 | 5,087.00 | 99,335.00 |
| 12. Number Of Hours Reactor Was Critical | 504.57 | 4,847.57 | 79,534.02 |
| 13. Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. Hours Generator On-Line | 504.45 | 4,847.45 | 77,890.94 |
| 15. Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 16. Gross Thermal Energy Generated (MWH) | 1,627,322.00 | 15,703,040.01 | 250,851,086.00 |
| 17. Gross Electrical Energy Generated (MWH) | 553,826.50 | 5,323,918.00 | 85,156,594.50 |
| 18. Net Electrical Energy Generated (MWH) | 523,515.30 | 5,045,558.30 | 80,486,469.24 |
| 19. Unit Service Factor | 67.80% | 95.29% | 78.41% |
| 20. Unit Availability Factor | 67.80% | 95.29% | 78.41% |
| 21. Unit Capacity Factor (Using MDC Net) | 65.15% | 91.84% | 75.02% |
| 22. Unit Capacity Factor (Using DER Net) | 65.15% | 91.84% | 75.02% |
| 23. Unit Forced Outage Rate | 0.00% | 0.00% | 5.75% |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Shutdown, July 22, 1995, Duration (76 days)</u> | | | |
| 25. If Shutdown At End Of Report Period, Estimated Date of Startup: | NA | | |
| 26. Units In Test Status (Prior To Commercial Operation): | Forecast | Achieved | |

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

| | |
|----|----|
| NA | NA |
| NA | NA |
| NA | NA |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: July 1995

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | <u>1108.79</u> | 16 | <u>1044.33</u> |
| 2 | <u>1062.38</u> | 17 | <u>1040.92</u> |
| 3 | <u>1059.71</u> | 18 | <u>1043.33</u> |
| 4 | <u>1058.04</u> | 19 | <u>1045.08</u> |
| 5 | <u>1061.71</u> | 20 | <u>1025.92</u> |
| 6 | <u>1065.25</u> | 21 | <u>734.92</u> |
| 7 | <u>1064.29</u> | 22 | <u>0.00</u> |
| 8 | <u>1063.38</u> | 23 | <u>0.00</u> |
| 9 | <u>1063.38</u> | 24 | <u>0.00</u> |
| 10 | <u>1065.46</u> | 25 | <u>0.00</u> |
| 11 | <u>1066.83</u> | 26 | <u>0.00</u> |
| 12 | <u>1066.17</u> | 27 | <u>0.00</u> |
| 13 | <u>1065.21</u> | 28 | <u>0.00</u> |
| 14 | <u>1059.63</u> | 29 | <u>0.00</u> |
| 15 | <u>1056.29</u> | 30 | <u>0.00</u> |
| | | 31 | <u>0.00</u> |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: July 1995DOCKET NO: 50-362UNIT NAME: SONGS - 3DATE: August 15, 1995COMPLETED BY: R. L. KaplanTELEPHONE: (714) 368-6834

| No. | Date | Type ¹ | Duration (Hours) | Reason ² | Method of Shutting Down Reactor ³ | LER No. | System Code ⁴ | Component Code ⁵ | Cause & Corrective Action to Prevent Recurrence |
|-----|--------|-------------------|---------------------|---------------------|---|------------|-----------------------------|--------------------------------|---|
| 88 | 950721 | S | 139.55 | C | 1 | N/A | N/A | N/A | N/A |

Note Power reduction for unit shutdown began on July 21, at 2132. The unit was taken off line on July 22 at 0027, which is the time used to calculate shutdown duration.

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuation from
Previous Month
5-Reduction in the Average
Daily Power Level of more
than 20% from the previous day
6-Other (Explain)

⁴IEEE Std 805-1984⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: August 15, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

| <u>Date</u> | <u>Time</u> | <u>Event</u> |
|-------------|-------------|--|
| July | 01 0001 | Unit is in Mode 1, reactor power 98.1%, 1115 MWe |
| July | 20 1655 | Commenced reducing reactor power to 79% for circulating water system heat treatment and to reset Hi Linear Power Trip setpoints for Main Steam Safety Valve Testing. |
| July | 21 0408 | Unit at 79% reactor power for circulating water system heat treatment. |
| | 1555 | Commenced reducing reactor power to 75% power for circulating water pump maintenance. |
| | 1800 | Unit at 75% reactor power, 834 MWe. |
| | 2132 | Commenced reducing reactor power for Cycle 8 Refueling Outage. |
| July | 22 0027 | Main Turbine removed from service, commenced Unit 3 Cycle 8 refueling outage. |
| | 0034 | Unit 3 Reactor Trip Breakers open at 17% power in accordance with procedure, entering Mode 3. |
| July | 23 0315 | Unit entered Mode 4. |
| July | 24 0405 | Unit entered Mode 5, Tcold less than 200 degrees. |
| | 2130 | All reactor coolant pumps stopped. |
| July | 29 1153 | Unit entered Mode 6, one reactor vessel head stud detensioned. |
| July | 31 2400 | Unit is in Mode 6, Cycle 8 Refueling Outage in progress. |

REFUELING INFORMATION

| | |
|---------------|-----------------|
| DOCKET NO: | 50-362 |
| UNIT NAME: | SONGS - 3 |
| DATE: | August 15, 1995 |
| COMPLETED BY: | R. L. Kaplan |
| TELEPHONE: | (714) 368-6834 |

MONTH: July 1995

1. Scheduled date for next refueling shutdown.

Cycle 8 refueling outage began July 22, 1995.

2. Scheduled date for restart following refueling.

Restart from Cycle 8 refueling outage is forecast for October 5, 1995.

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Yes

What will these be?

- A. A proposed change to the Technical Specifications has been requested to revise the allowed Linear Heat Transfer Rate from 13.9 to 13.0 kw/ft.

4. Scheduled date for submitting proposed licensing action and supporting information.

A. Linear Heat Rate

Submitted September 16, 1994

5. 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.

None.

REFUELING INFORMATION

| | |
|---------------|------------------------|
| DOCKET NO: | <u>50-362</u> |
| UNIT NAME: | <u>SONGS - 3</u> |
| DATE: | <u>August 15, 1995</u> |
| COMPLETED BY: | <u>R. L. Kaplan</u> |
| TELEPHONE: | <u>(714) 368-6834</u> |

6. The number of fuel assemblies.

A. In the core. 217

B. In the spent fuel storage pool. 818 Total Fuel Assemblies
592 Unit 3 Spent Fuel Assemblies
108 Unit 3 New Fuel Assemblies
118 Unit 1 Spent Fuel Assemblies

C. In the New Fuel Storage Racks Zero Unit 3 New Fuel Assemblies

7. Licensed spent fuel storage capacity. 1542

Intended change in spent fuel storage capacity. None

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

Approximately 2003 (full off-load capability).