NRC MONTHLY OPERATING REPORT

| | C | DOCKET NO: UNIT NAME: DATE: DMPLETED BY: TELEPHONE: | SONGS - 2 9-15-92 J. L. Darli | ng 223 |
|--|---|---|---|----------------------------------|
| | OPERATING STATUS | | | |
| 1. | Unit Name: San Onofre Nuclear Generating | Station. Un | it 2 | |
| 2 | Reporting Period: <u>August 1992</u> Licensed Thermal Power (MWt): Nameplate Rating (Gross MWe): Design Electrical Rating (Net MWe): Maximum Dependable Capacity (Gross MWe): Maximum Dependable Capacity (Net MWe): If Changes Occur In Capacity Ratings (Itel | 3390 1127 1070 1127 1070 | | |
| 9. | Since Last Report, Give Reasons: Power Level To Which Restricted, If Ar. (Reasons For Rest ictions, If Any: | Net MWe): | NA NA NA | |
| | | This Month | Yrto-Date | Cumulative |
| 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. | Gross Electrical Energy Generated (MWH) | 780,429,50 741,857.00 95,76% 95,76% 93,19% 93,19% 4,24% | 5,946,562,50 5,652,824,00 90.29% 90.29% 90.23% 90.23% 90.23% 90.23% 9.71% | 71.58 70.13 70.13 70.20 |
| 25. 26. | If Shutdown At End Of Report Period, Est Units In Test Status (Prior To Commercia INITIAL CRITICALITY INITIAL ELECTRICITY | | : Forecast NA NA | NA Achieved NA NA |
| | COMMERCIAL OPERATION | | NA | NA |

mor.aug/2

9209210115 920831 PDR ADGCK 05000361 R PDR

AVERAGE DAILY UNIT POWER LEVEL

| | | DOCKET NO: 50-361 UNIT NAME: SONGS - DATE: 9-15-92 COMPLETED BY: J. L. Darling TELEPHONE: (714) 368-6223 | | | | | | |
|----------|--------------------------------------|--|--------------------------------------|--|--|--|--|--|
| MONTH: . | August 1992 | | | | | | | |
| DAY AVI | ERAGE DAILY POWER LEVEL (MWe-Net) | DAY AV | ERAGE DAILY POWER LEVEL (MWe-Net) | | | | | |
| 1 | 0,01 | 16 _ | 1089.67 | | | | | |
| 2 | 379.50 | 17 | 1089.54 | | | | | |
| 3 | 949.71 | 18 | 1086.96 | | | | | |
| 4 | 1074.29 | 19 | 1087.83 | | | | | |
| 5 | 1051.63 | 20 | 1091.25 | | | | | |
| 6 | 1081.04 | 21 | 1088.00 | | | | | |
| 7 | 1071.79 | 22 _ | 1071.00 | | | | | |
| 8 | 1035.92 | 23 | 1084.46 | | | | | |
| 9 | 1088.67 | _4 _ | 1082.52 | | | | | |
| 10 | 1032.33 | 25 _ | 1067.13 | | | | | |
| 11 | 1003.13 | 26 | 929.96 | | | | | |
| 12 | 1084.08 | 27 | 940.25 | | | | | |
| 13 | 1091.54 | 28 | 939.33 | | | | | |
| 14 | 1080,54 | 29 | 1043.17 | | | | | |
| 15 | 1069.00 | 30 _ | 1086.63 | | | | | |
| | | 31 | 1044,67 | | | | | |

| | | | | | UNIT SHUT REPORT | FDOWNS AND F | ET NO: <u>50-361</u> NAME: <u>SONGS - 2</u> DATE: <u>9-15-92</u> ED BY: <u>J. L. Darling</u> PHONE: <u>(714) 368-6223</u> | | |
|-----|--------|-------------------|---------------------|---------------------|---|--------------|---|--------------------------------|---|
| No. | Date | Type ¹ | Duration (Hours) | Reason ² | Method of Shutting Down Reactor ³ | LER No. | System Code4 | Component Code ⁵ | Cause & Corrective Action to Prevent Recurrence |
| 76 | 920731 | F | 31.57 | Н | 3 | 2-92-012 | EA JC | XTP | Continued from previous month's outage. |

| ¹ F-Forced | ² Reason: | ³ Method: | ⁴ IEEE Std 805-1984 |
|-----------------------|--|---|--|
| S-Scheduled | 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) | <pre>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 d 6-Uther (Explain)</pre> | ⁵ IEEE Std 803A-1983 lay |

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| | | | DOCKET NO: <u>50-361</u> UNIT NAME: <u>SONGS - 2</u> DATE: <u>9-15-92</u> COMPLETED BY: <u>J. L. Darling</u> TELEPHONE: <u>(714) 368-6223</u> |
|--------|-----|------|---|
| Date | | Time | Event |
| August | 1 | 0001 | Unit is in Mode 3, 543.5F, 2250 psia, following automatic Reactor trip on 7/31/92. |
| August | 2 | 0124 | Entered Mode 2. |
| | | 0203 | Reactor is made critical. |
| | | 0345 | Entered Mode 1. |
| | | 0734 | Unit synchronized to the grid. |
| | | 0810 | Commenced reactor power increase to 80% power for circulating water system heat treat. |
| | | 2335 | Reactor power at 80% for heat treat, |
| August | 3 | 1050 | Commenced reactor power increase to 100% power following completion of heat treat. |
| | | 1340 | Reactor at 100% power. |
| August | 7 | 2100 | Commenced reactor power decrease to 90% power to perform corrective maintenance on HP turbine valve control circuits. |
| | | 2300 | Reactor power at 90%. |
| August | 8 | 0950 | Commenced reactor power increase to 100% following completion of turbine valve work. |
| | | 1205 | Unit at 100% power. |
| August | 10 | 2105 | Commenced reactor power decrease to 50% power for containment entry to perform inspection of RCP 2P003 lower oil reservoir. |
| August | 11 | 0055 | Unit at 50% power. |
| | | 0135 | Commanced reactor power increase to 100% power following completion of RCP 2P003 reservoir inspection. |
| | | 0550 | Unit at 100% power. |
| | 1.0 | | |

mor.aug/5

| DOCKET NO: | 50-361 |
|---------------|----------------|
| UNIT NAME: | SONGS - 2 |
| DATE: | 9-15-92 |
| COMPLETED BY: | |
| TELEPHONE: | (714) 368-6223 |

| Date | Time | Event |
|-----------|------|--|
| August 25 | 2200 | Commenced reactor power decrease to 90% for removal of Second and Third point heaters from service because of a steam leak on cascade drain line. |
| | 2305 | Unit at 90% power. |
| August 29 | 0202 | Commenced reactor power increase to 100% following repairs to second and third point heater cascade drain line. |
| | 0932 | Unit at 100% power. |
| August 31 | 2400 | Unit at 100% power, 1140 MWe. |

| DOCKET NO: | 50-361 |
|---------------|----------------|
| UNIT NAME: | SONGS - 2 |
| DATE: | 9-15-92 |
| COMPLETED BY: | J. L. Darling |
| TELEPHONE: | (714) 368-6223 |

MONTH: August 1992

1. Scheduled date for next refueling shutdown.

Cycle 7 refueling outage is forecast for May 1993.

2. Scheduled date for restart following refueling.

Restart from Cycle 7 refueling outage is forecast for August 1993.

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

Not yet determined for Cycle 7.

What will these be?

Not yet determined.

 Scheduled date for submitting proposed licensing action and supporting information.

Not yet determined.

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.

Not yet determined.

mor.aug/7

| DOCKET NO: | 50-361 | | | | | |
|---------------|----------------|--|--|--|--|--|
| UNIT MAME: | SONGS - 2 | | | | | |
| DATE: | 9-15-92 | | | | | |
| COMPLETED BY: | J. L. Darling | | | | | |
| TELEPHONE: | (714) 368-6223 | | | | | |

MONTH: August 1992

6. The number of fuel assemblies.

- a) In the core. 217
- b) In the spent fuel storage pool.

| 5 | 5 | 4 | (| 4 | 84 | 1 | U | n | - | t | | 2 | 1 | ŝt |)e | 1 | t | |
|---|---|----|---|---|----|---|---|----|---|---|---|---|---|----|----|---|---|--|
| F | u | e | 1 | A | | e | n | ib | 1 | i | e | S | | 1 | 0 | | | |
| U | n | 3. | t | 1 | 5 | p | e | n | t | | F | u | e | Ē | | | | |
| A | | | | | | | | | | | | | | | | | | |

7. Licensed spent fuel storage capacity. 1542

Intended change in spent fuel storage capacity. Nonc

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

Approximately 2001 (full off load capability)

NRC MONTHLY OPERATING REPORT

| DOCKET NO: | 50-362 |
|---------------|----------------|
| UNIT NAME: | SONGS - 3 |
| DATE: | 9-15-92 |
| COMPLETED BY: | J. L. Darling |
| TELEPHONE: | (714) 368-6223 |

OPERATING STATUS

| 1. 2. 3. 4. 5. 6. 7. 8. 9, 10. | Unit Name: <u>San Onofre Nuclear Generatin</u> Reporting Period: <u>August 1992</u> Licensed Thermal Power (MWt): <u>Nameplate Rating (Gross MWe)</u> : Design Electrical Rating (Net MWe): <u>Maximum Dependable Capacity (Gross MWe)</u> : Maximum Dependable Capacity (Net MWe): <u>If Changes Occur In Capacity Ratings (It Since Last Report, Give Reasons:</u> Power Level To Which Restricted, If Any Reasons For Restrictions, If Any: <u></u> | 3390 1127 1080 1127 1080 ems Number 3 | | |
|--|--|--|---|---|
| | | This Month | Yrto-Date | Cumulative |
| 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. | Hours In Reporting Period Number Of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) <u>2</u> Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months None | 824,083.00 783,661.00 100.00% 97.53% 97.53% 0.00% | 3,955,442.00 3,718,655.07 62.58% 62.58% 58.81% 58.81% 8.83% | 0.00 175,076,261.88 59,355,467.00 56,036,762.36 74.17% 74.17% 70.31% 70.31% 7.82% |
| 25. 26. | If Shutdown At End Of Report Period, Es Units In Test Status (Prior To Commerci INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION | | | NA Achieved NA NA NA |

AVERAGE DAILY UNIT POWER LEVEL

| DOCKET NO: | 50-361 |
|---------------|----------------|
| UNIT NAME: | SONGS - 3 |
| DATE: | 9-15-92 |
| COMPLETED BY: | J. L. Darling |
| TELEPHONE: | (714) 368-6223 |

| MONT | H: August 1992 |
|------|--|
| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
| 1 | 852.88 |
| 2 | 1087.42 |
| 3 | 1081.63 |
| 4 | 1081.25 |
| 5 | 1078.71 |
| 6 | 1078.67 |
| 7 | 1072.21 |
| 8 | 1068.25 |
| 9 | 1084.83 |
| 10 | 1082.54 |
| 11 | 1081.25 |
| 12 | 1083.96 |
| 13 | 1089.79 |
| 14 | 1052.67 |
| 15 | 791.04 |
| | |

| DAY | AVERAGE DAILY POWER (MWe-Net) | LEVEL |
|-----|----------------------------------|-------|
| 16 | 716.46 | |
| 17 | 1025.08 | |
| 18 | 1089.88 | |
| 19 | 1092.17 | |
| 20 | 1096.63 | |
| 21 | 1081.25 | |
| 22 | 1049.63 | |
| 23 | 1095.25 | |
| 24 | 1093.21 | |
| 25 | 1091,33 | |
| 26 | 1092.46 | |
| 27 | 1092.17 | |
| 28 | 1089.63 | |
| 29 | 1096.79 | |
| 30 | 1099.92 | |
| 31 | 1083.63 | |

| | | | | | | HUTDOWNS A | | REDUCTIONS | DATE: COMPLETED BY: | 50-362 SONGS - 3 9-15-92 J. L. Darling (714) 368-6223 |
|-----|--------|-------------------|---------------------|--------|---|------------|-----------------|--------------------------------|---|--|
| No. | Date | Type ¹ | Duration (Hours) | Reason | Method of Shutting Down Reactor ³ | LER No. | System Code⁴ | Component Code ⁵ | Act | & Corrective tion to t Recurrence |
| 68 | 920815 | S | NA | В | 5 | NA | KE | COND | perform heat trea box cleared reduced treat to to instal | reactor power to 80% to circulating water system itment and condenser water aning. Reactor power to 50% following heat allow containment entry 11 temporary oil addition or RCP P001. |

| particular second s | | | |
|--|---|---|---------------------------------|
| ¹ F-Forced S-Scheduled | ² Reason: | ³ Methud: | *IEEE Std 805-1984 |
| 5-Schedured | A-Equipment Failure (Explain) B-Maintenance or Test | 1-Manual 2-Manual Scram. | ⁵ IEEE Std 803A-1983 |
| | C-Refueling D-Regulatory Restriction | 3-Automatic Scram. 4-Continuation from | |
| | E-Operator Training & License Examination F-Administrative | Previous Month 5-Reduction in the Average | |
| | G-Operational Error (Explain) H-Other (Explain) | Daily Power Level of mor han 20% from the previo | |
| | | 6-Jther (Explain) | |

| DOCKET NO: | 50-362 |
|---------------|----------------|
| UNIT NAME: | SONGS - 3 |
| DATE: | 9-15-92 |
| COMPLETED BY: | J. L. Darling |
| TELEPHONE: | (714) 368-6223 |

| Date | | Time | Event |
|--------|----|------|---|
| August | 1 | 0001 | Unit is in Mode 1 at 75% reactor power, Turbine load at 820 MWe. Power reduced for water box cleaning and Containment entry to inspect Pressurizer instrument line for leakage. |
| | | 0427 | Containment entry completed, the Pressurizer instrument line leak identified to be on the canopy seal of root valve MR043. |
| | | 1516 | Circulating water pump 3P-118 started after completion of water box cleaning. |
| | | 1612 | Commerced reactor power increase to 100%. |
| | | 1905 | Reactor at 100% power, 1130 MWe. |
| August | 14 | 1200 | Commenced Unit power reduction to reduce circulating water differential temperature to less than 20.0F. |
| | | 1500 | Unit at 94.5% power, 1068 MWe. Circulating water differential temperature at 19.5F. |
| August | 15 | 0230 | Commenced reactor power decrease to 80% power in preparation for circulating water heat treat. |
| | | 0458 | Unit at 80% reactor power. |
| | | 1355 | Heat treat completed. |
| | | 1700 | Reactor power decreased to 75% and Circulating water pump 3P-115 stopped for maintenance on start circuitry. |
| | | 2200 | Commenced reactor power decrease to 50% in preparation for Containment entry to install temporary oil addition system on RCP P001. |
| August | 16 | 0059 | Circulating water pump 3P-115 started following completion of start circuitry maintenance. |

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| DOCKET NO: | 50-362 | |
|---------------|----------------|--|
| UNIT NAME: | 59835 - 3 | |
| DATE: | 9-15-92 | |
| COMPLETED BY: | J. L. Darling | |
| TELEPHONE: | (714) 368-6223 | |

| Date | | <u>Time</u> | Event |
|--------|----|-------------|--|
| August | 16 | 0200 | Reactor at 50% power. |
| | | 0540 | Commenced reactor power increase to 100% following completion of containment entry. |
| August | 17 | 0001 | Unit at 89% power, 1030 MWe. Holding power because 20 degree circulating water differential temperature limit reached. Suspect circulating water gate 5 not fully closed. |
| | | 1235 | Commenced reactor power increase to full power after completing repairs and closure of gate 5. |
| | | 1435 | Unit at 98% reactor power, 1120 MWe. Unit load increase stopped circulating water differential temperature being reached. |
| August | 18 | 0001 | Reactor power increased to 99.4%, 1138 MWe. Circulating water differential temperature is less than 20 degrees. |
| August | 21 | 2138 | Commenced power reduction to 90% to perform HP valve testing and maintenance |
| | | 2238 | Unit at 90% reactor power, 1000 MWe. |
| August | 22 | 0916 | Commenced reactor power increase to 100% following completion of HP valve testing and maintenance. |
| | | 1225 | Unit at 100% reactor power, 1140 MWe. |
| August | 31 | 2400 | Unit at 100% reactor power, 1147 MWe. |

| DOCKET NO: | 50-362 |
|---------------|----------------|
| UNIT NAME: | SONGS - 3 |
| DATE: | 9-15-92 |
| COMPLETED BY: | J. L. Darling |
| TELEPHONE: | (714) 368-6223 |

MONTH: August 1992

1. Scheduled date for next refueling shutdown.

Cycle 7 refueling outage is forecast for September 1993.

2. Scheduled date for restart following refueling.

Restart from Cycle 7 refueling outage is forecast for December 1993.

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

Not yet determined for Cycle 7.

What will these be?

Not yet determined.

 Scheduled date for submitting proposed licensing action and supporting information.

Not yet determined.

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.

Not yet determined.

| DOCKET NO: | 50-362 |
|---------------|----------------|
| UNIT NAME: | SONGS - 3 |
| DATE: | 9-15-92 |
| C1.PLETED BY: | J. L. Darling |
| TELEPHONE: | (714) 368-6223 |

MONTH: August 1992

- 6. The number of fuel assemblies.
 - a) In the core. 217
 - b) In the spent fuel storage pool.

| 553 | (48 | 4 1 | Ini | t | 3 | Spent | |
|-----|------|-----|-----|----|----|-------|--|
| Fue | 1 As | sen | nb1 | ie | 5. | 69 | |
| Uni | t 1 | Spe | nt | F | ue | 1 | |
| Ass | emb1 | ies | .) | | | | |

7. Licensed spent fuel storage capacity. 1542

Intended change in spent fuel storage capacity. None

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

Approximately 2003 (full off load capability)