

NRC MONTHLY OPERATING REPORT

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

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: June 1994
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	720.00	4,343.00	95,280.00
12. Number Of Hours Reactor Was Critical	720.00	4,343.00	72,357.59
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	720.00	4,343.00	71,214.34
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,359,616.90	14,320,433.60	232,894,690.04
17. Gross Electrical Energy Generated (MWH)	802,800.50	4,893,796.00	78,981,584.00
18. Net Electrical Energy Generated (MWH)	764,966.00	4,663,292.00	74,917,990.88
19. Unit Service Factor	100.00%	100.00%	74.74%
20. Unit Availability Factor	100.00%	100.00%	74.74%
21. Unit Capacity Factor (Using MDC Net)	99.29%	100.35%	73.49%
22. Unit Capacity Factor (Using DER Net)	99.29%	100.35%	73.49%
23. Unit Forced Outage Rate	0.00%	0.00%	5.82%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): None			
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: 50-361
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 TELEPHONE: (714) 368-6223

MONTH: June 1994

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1079.04</u>
2	<u>1079.13</u>
3	<u>1055.00</u>
4	<u>1074.13</u>
5	<u>1072.58</u>
6	<u>1070.88</u>
7	<u>1069.79</u>
8	<u>1069.33</u>
9	<u>1068.50</u>
10	<u>1066.79</u>
11	<u>1067.33</u>
12	<u>1069.42</u>
13	<u>1068.08</u>
14	<u>1064.29</u>
15	<u>1063.79</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>1063.71</u>
17	<u>1060.54</u>
18	<u>866.29</u>
19	<u>1064.21</u>
20	<u>1069.50</u>
21	<u>1071.29</u>
22	<u>1074.29</u>
23	<u>1074.79</u>
24	<u>1073.96</u>
25	<u>1074.13</u>
26	<u>1073.75</u>
27	<u>1073.08</u>
28	<u>1065.83</u>
29	<u>1064.92</u>
30	<u>1065.21</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: June 1994DOCKET NO: 50-361UNIT NAME: SONGS - 2

DATE: _____

COMPLETED BY: J. L. DarlingTELEPHONE: (714) 368-6223

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
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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:
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
June	01 0001	Unit is in Mode 1, 98% reactor power, 1130 MWe.
June	18 0400	Commenced unit load reduction in preparation for circulating water system heat treat.
	0630	Unit at 80% reactor power.
	2201	Commenced unit load increase following completion of circulating water system heat treat.
June	19 0255	Unit at 98.1% reactor power, 1120 MWe.
June	30 2400	Unit is in Mode 1, 98% reactor power, 1115 MWe.

REFUELING INFORMATION

DOCKET NO:	50-361
UNIT NAME:	SONGS - 2
DATE:	
COMPLETED BY:	J. L. Darling
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MONTH: June 1994

1. Scheduled date for next refueling shutdown.

Cycle 8 refueling outage is forecast for January 15, 1995.

2. Scheduled date for restart following refueling.

Restart from Cycle 8 refueling outage is forecast for March 15, 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 will be requested which will revise the minimum water level in the refueling cavity with only one train of shutdown cooling operable.
- B. A proposed change to the Technical Specifications and an exemption from 10 CFR 50 Appendix J will be requested to permit deferring the Integrated Leakrate Testing.
- C. A proposed change to the Technical Specifications will be requested to revise the allowed Linear Heat Rate from 13.9 to 13.0 kw/ft.
- D. A proposed change to the Final Safety Analysis has been requested to remove the diversity requirement of the pressurizer pressure transmitters providing input to the shutdown cooling open permissive interlock.
- E. Proposed change to the Technical Specifications (PCN 431), revising the automatic reset of the low pressurizer pressure bypass, will be revised to simplify the request.

REFUELING INFORMATION

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- F. A proposed change to the Technical Specifications will be requested to allow a 3.0.4 exception for entering Modes 5 and 6 with the Control Room Emergency Air Cleanup System inoperable.
4. Scheduled date for submitting proposed licensing action and supporting information.
- | | |
|------------------------------------|----------------------------------|
| A. Refueling Cavity Water Level | Submittal Forecast July 31, 1994 |
| B. Integrated Leakrate Testing | Submittal Forecast July 31, 1994 |
| C. Linear Heat Rate | Submittal Forecast Aug. 31, 1994 |
| D. Pressure Instrument Diversity | Submitted July 7, 1994 |
| E. Low Pressurizer Pressure Bypass | Revision Forecast Aug. 31, 1994 |
| F. Control Room Air Cleanup System | Submittal Forecast Aug. 31, 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.
6. The number of fuel assemblies.
- | | |
|------------------------------------|--|
| A. In the core. | <u>217</u> |
| B. In the spent fuel storage pool. | <u>662 Total Fuel Assemblies</u>
<u>592 Unit 2 Spent Fuel Assemblies</u>
<u>0 Unit 2 New Fuel Assemblies</u>
<u>70 Unit 1 Spent Fuel Assemblies</u> |
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

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

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
 2. Reporting Period: June 1994
 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 | 720.00 | 4,343.00 | 89,831.00 |
| 12. Number Of Hours Reactor Was Critical | 720.00 | 4,343.00 | 70,269.45 |
| 13. Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. Hours Generator On-Line | 720.00 | 4,329.60 | 68,626.49 |
| 15. Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 16. Gross Thermal Energy Generated (MWH) | 2,359,461.23 | 13,994,045.95 | 220,665,835.66 |
| 17. Gross Electrical Energy Generated (MWH) | 805,717.50 | 4,788,962.50 | 74,932,369.50 |
| 18. Net Electrical Energy Generated (MWH) | 762,809.00 | 4,535,149.00 | 70,798,187.94 |
| 19. Unit Service Factor | 100.00% | 99.69% | 76.40% |
| 20. Unit Availability Factor | 100.00% | 99.69% | 76.40% |
| 21. Unit Capacity Factor (Using MDC Net) | 98.10% | 96.69% | 72.97% |
| 22. Unit Capacity Factor (Using DER Net) | 98.10% | 96.69% | 72.97% |
| 23. Unit Forced Outage Rate | 0.00% | 0.00% | 6.48% |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
<u>None</u> | | | |
| 25. If Shutdown At End Of Report Period, Estimated Date of Startup: | | <u>NA</u> | |
| 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
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 TELEPHONE: (714) 368-6223

MONTH: June 1994

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1069.96</u>
2	<u>1068.29</u>
3	<u>1066.79</u>
4	<u>1064.33</u>
5	<u>1063.92</u>
6	<u>1063.79</u>
7	<u>1064.83</u>
8	<u>1065.63</u>
9	<u>1065.63</u>
10	<u>1052.83</u>
11	<u>1020.42</u>
12	<u>1064.54</u>
13	<u>1065.71</u>
14	<u>1062.54</u>
15	<u>1062.04</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>1060.42</u>
17	<u>1057.17</u>
18	<u>1057.00</u>
19	<u>1057.38</u>
20	<u>1061.54</u>
21	<u>1063.83</u>
22	<u>1065.00</u>
23	<u>1065.25</u>
24	<u>1058.88</u>
25	<u>1053.88</u>
26	<u>1056.46</u>
27	<u>1054.50</u>
28	<u>1049.17</u>
29	<u>1050.67</u>
30	<u>1051.33</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: June 1994DOCKET NO: 50-362UNIT NAME: SONGS - 3

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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
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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
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G-Operational Error (Explain)
H-Other (Explain)

³Method:
1-Manual
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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

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UNIT NAME: SONGS - 3
DATE: _____
COMPLETED BY: J. L. Darling
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<u>Date</u>	<u>Time</u>	<u>Event</u>
June	01 0001	Unit is in Mode 1, 97% reactor power, 1122 MWe.
June	25 2110	Commenced unit load reduction to allow main turbine valve testing.
	2149	Unit at 90% reactor Power, 1010 MWe.
	2245	Commenced unit load increase following completion of main turbine valve testing.
	2347	Unit is at 97%, 1115 MWe
June	30 2400	Unit is in Mode 1, 97% reactor power, 1101 MWe.

REFUELING INFORMATION

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DATE:	<u></u>
COMPLETED BY:	<u>J. L. Darling</u>
TELEPHONE:	<u>(714) 368-6223</u>

MONTH: June 1994

1. Scheduled date for next refueling shutdown.

Cycle 8 refueling outage is forecast for June 9, 1995.

2. Scheduled date for restart following refueling.

Restart from Cycle 8 refueling outage is forecast for August 18, 1995.

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

Unknown at this time for Cycle 8 refueling.

What will these be?

NA

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

NA

REFUELING INFORMATION

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MONTH: June 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.

6. The number of fuel assemblies.

A. In the core. 217

B. In the spent fuel storage pool. 710 Total Fuel Assemblies
592 Unit 3 Spent Fuel Assemblies
0 Unit 3 New Fuel Assemblies
118 Unit 1 Spent 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).