

MRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 3/18/91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: January 1991
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	672.00	1,416.00	66,049.00
12. Number Of Hours Reactor Was Critical	672.00	1,416.00	48,175.56
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	672.00	1,416.00	47,218.42
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,249,772.66	4,753,407.56	154,237,392.28
17. Gross Electrical Energy Generated (MWH)	770,431.00	1,629,186.50	52,336,680.50
18. Net Electrical Energy Generated (MWH)	735,596.00	1,555,674.00	49,608,196.24
19. Unit Service Factor	100.00%	100.00%	71.49%
20. Unit Availability Factor	100.00%	100.00%	71.49%
21. Unit Capacity Factor (Using MDC Net)	102.30%	102.68%	70.19%
22. Unit Capacity Factor (Using DER Net)	102.30%	102.68%	70.19%
23. Unit Forced Outage Rate	0.00%	0.00%	6.01%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	NA		
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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 3/18/91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: February 1991

DAY AVERAGE DAILY POWER LEVEL (MWe-Net)

1	<u>1105.71</u>
2	<u>885.29</u>
3	<u>1091.08</u>
4	<u>1104.75</u>
5	<u>1106.00</u>
6	<u>1104.08</u>
7	<u>1101.38</u>
8	<u>1103.29</u>
9	<u>1079.83</u>
10	<u>1106.83</u>
11	<u>1105.96</u>
12	<u>1106.71</u>
13	<u>1106.67</u>
14	<u>1106.50</u>
15	<u>1098.96</u>
16	<u>1101.79</u>

DAY AVERAGE DAILY POWER LEVEL (MWe-Net)

17	<u>1101.17</u>
18	<u>1102.15</u>
19	<u>1102.08</u>
20	<u>1101.63</u>
21	<u>1101.13</u>
22	<u>1096.96</u>
23	<u>1105.79</u>
24	<u>1106.13</u>
25	<u>1104.67</u>
26	<u>1105.21</u>
27	<u>1104.71</u>
28	<u>1105.42</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1991DOCKET NO: 50-361UNIT NAME: SONGS - 2DATE: 3/18/91COMPLETED BY: M. M. FarrTELEPHONE: (714) 368-9787

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
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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 of 20%
or greater in the
past 24 hours
6-Other (Explain)

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 5r 361
 UNIT NAME: SJNGS - 2
 DATE: 3/18/91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

<u>Date</u>	<u>Time</u>	<u>Event</u>
February 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1151 MWe gross.
February 2	0100	Commenced reactor power decrease to 80% for circulating water system heat treatment.
	0515	Reactor at 80% power.
	2200	Commenced reactor power increase to 100% following completion of heat treating operations.
February 3	0305	Reactor at 100% power.
February 28	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1153 MWe gross.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 3/18/91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: February 1991

1. Scheduled date for next refueling shutdown.

Cycle 6 refueling outage is forecast for July 1991.

2. Scheduled date for restart following refueling.

Restart from Cycle 6 refueling outage is forecast for October 1991.

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

No.

What will these be?

Not applicable.

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

Not applicable.

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: 50-361
UNIT NAME: SONGS - 2
DATE: 3/18/91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: February 1991

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 446 (376 Unit 2 Spent
Fuel Assemblies and 70
Unit 1 Spent Fuel
Assemblies

7. Licensed spent fuel storage capacity. 1542 *

Intended change in spent fuel storage capacity. None

* Expanded from 800 to 1542 by License Amendment No. 87 - Facility modification is scheduled to be completed by April 1991.

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: 3/18/91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: February 1991
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	672.00	1,416.00	60,600.00
12. Number Of Hours Reactor Was Critical	672.00	1,416.00	45,643.97
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	672.00	1,416.00	44,392.49
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,251,388.56	4,759,357.22	141,056,998.78
17. Gross Electrical Energy Generated (MWH)	765,725.50	1,633,200.00	47,884,882.50
18. Net Electrical Energy Generated (MWH)	728,836.00	1,554,675.00	45,179,584.33
19. Unit Service Factor	100.00%	100.00%	73.25%
20. Unit Availability Factor	100.00%	100.00%	73.25%
21. Unit Capacity Factor (Using MDC Net)	100.42%	101.66%	69.03%
22. Unit Capacity Factor (Using DER Net)	100.42%	101.66%	69.03%
23. Unit Forced Outage Rate	0.00%	0.00%	7.54%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	NA		
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
 UNIT NAME: SONGS - 3
 DATE: 3/18/91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 268-9787

MONTH: February 1991

DAY AVERAGE DAILY POWER LEVEL (MWe-Net)

1	<u>1093.00</u>
2	<u>1097.21</u>
3	<u>1098.38</u>
4	<u>1099.21</u>
5	<u>1099.13</u>
6	<u>1097.58</u>
7	<u>1098.38</u>
8	<u>1092.58</u>
9	<u>1097.13</u>
10	<u>1096.04</u>
11	<u>1096.08</u>
12	<u>1095.00</u>
13	<u>1095.79</u>
14	<u>1096.29</u>
15	<u>1067.58</u>
16	<u>832.25</u>

DAY AVERAGE DAILY POWER LEVEL (MWe-Net)

17	<u>1046.88</u>
18	<u>1099.63</u>
19	<u>1101.92</u>
20	<u>1102.33</u>
21	<u>1078.21</u>
22	<u>1094.13</u>
23	<u>1100.42</u>
24	<u>1099.04</u>
25	<u>1097.21</u>
26	<u>1098.33</u>
27	<u>1098.92</u>
28	<u>1099.54</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1991DOCKET NO: 50-362UNIT NAME: SONGS - 3DATE: 3/18/91COMPLETED BY: M. M. FarrTELEPHONE: (714) 368-9787

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
55	910216	S	0.00	B	5	NA	KE	COND	Reduced power to 80% to support condenser water box cleaning.

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 of 20%
or greater in the
past 24 hours
6-Other (Explain)

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 3/18/91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

<u>Date</u>	<u>Time</u>	<u>Event</u>
February 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1150 MWe gross.
February 15	1955	Commenced reactor power decrease to 80% for circulating water system heat treatment.
	2225	Reactor at 80% power.
February 16	0200	Commenced reactor power increase to 100% following completion of heat treating operations.
	0650	Reactor at 100% power.
February 28	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1144 MWe gross.
February 28	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1150 MWe gross.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 3/18/91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: February 1991

1. Scheduled date for next refueling shutdown.

Cycle 6 refueling outage is forecast for January 1992.

2. Scheduled date for restart following refueling.

Restart from Cycle 6 refueling outage is forecast for April 1992.

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

Not yet specifically determined. Under evaluation.

What will these be?

Not yet specifically determined. Under evaluation.

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

Not yet specifically determined. Under evaluation.

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 specifically determined. Under evaluation.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 2/18/91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: February 1991

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 445 (376 Unit 3 Spent
Fuel Assemblies and 69
Unit 1 Spent Fuel
Assemblies

7. Licensed spent fuel storage capacity. 1542 *

Intended change in spent fuel storage capacity. None

* Expanded from 800 to 1542 by License Amendment No. 77 - Facility modification is scheduled to be completed by September 1991.

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

Approximately 2003 (full off load capability)