

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 10-15-91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: September 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	<u>720.00</u>	<u>6,551.00</u>	<u>71,184.00</u>
12. Number Of Hours Reactor Was Critical	<u>0.00</u>	<u>4,681.86</u>	<u>51,441.42</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>0.00</u>	<u>4,655.03</u>	<u>50,457.45</u>
15. Unit Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
16. Gross Thermal Energy Generated (MWH)	<u>0.00</u>	<u>14,872,095.76</u>	<u>164,356,080.48</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.00</u>	<u>5,015,529.50</u>	<u>55,723,023.50</u>
18. Net Electrical Energy Generated (MWH)	<u>(3,578.61)</u>	<u>4,749,414.40</u>	<u>52,801,936.64</u>
19. Unit Service Factor	<u>0.00%</u>	<u>71.06%</u>	<u>70.88%</u>
20. Unit Availability Factor	<u>0.00%</u>	<u>71.06%</u>	<u>70.88%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.00%</u>	<u>67.76%</u>	<u>69.32%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.00%</u>	<u>67.76%</u>	<u>69.32%</u>
23. Unit Forced Outage Rate	<u>0.00%</u>	<u>14.94%</u>	<u>7.06%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Cycle 6 refueling outage commenced on August 17, 1991, in progress.</u> <u>Outage duration scheduled for 90 days.</u>			
25. If Shutdown At End Of Report Period, Estimated Date of Startup: <u>November 15, 1991</u>			
26. Units In Test Status (Prior To Commercial Operation):	Forecast	Achieved	
INITIAL CRITICALITY	<u>NA</u>	<u>NA</u>	
INITIAL ELECTRICITY	<u>NA</u>	<u>NA</u>	
COMMERCIAL OPERATION	<u>NA</u>	<u>NA</u>	

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 10-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: September 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0.00</u>
2	<u>0.00</u>
3	<u>0.00</u>
4	<u>0.00</u>
5	<u>0.00</u>
6	<u>0.00</u>
7	<u>0.00</u>
8	<u>0.00</u>
9	<u>0.00</u>
10	<u>0.00</u>
11	<u>0.00</u>
12	<u>0.00</u>
13	<u>0.00</u>
14	<u>0.00</u>
15	<u>0.00</u>
16	<u>0.00</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0.00</u>
18	<u>0.00</u>
19	<u>0.00</u>
20	<u>0.00</u>
21	<u>0.00</u>
22	<u>0.00</u>
23	<u>0.00</u>
24	<u>0.00</u>
25	<u>0.00</u>
26	<u>0.00</u>
27	<u>0.00</u>
28	<u>0.00</u>
29	<u>0.00</u>
30	<u>0.00</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361

UNIT NAME: SONGS - 2

REPORT MONTH: September 1991

DATE: 10-15-91

COMPLETED BY: M. M. Farr

TELEPHONE: (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
68	910817	S	720.00	C	4	NA	NA	NA	Cycle 6 refueling outage.

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
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<u>Date</u>	<u>Time</u>	<u>Event</u>
September 1	0001	Unit is in Mode 6, day 15 of the Cycle 6 refueling outage.
September 1	2355	Commenced core alterations.
September 4	0305	Commenced off loading core.
September 9	1155	Completed off loading core.
September 29	2128	Commenced reload of fuel assemblies into the reactor core. Entered Mode 6. Core alterations in progress.
September 30	2359	Unit is in Mode 6, day 44 of the Cycle 6 refueling outage. Core alterations in progress.

REFUELING INFORMATION

DOCKET NO:	<u>50-361</u>
UNIT NAME:	<u>SONGS - 2</u>
DATE:	<u>10-15-91</u>
COMPLETED BY:	<u>M. M. Farr</u>
TELEPHONE:	<u>(714) 368-9787</u>

MONTH: September 1991

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 July 1993.

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

Yes.

What will these be?

All license amendments associated with the Cycle 6 refueling outage have been approved.

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

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MONTH: September 1991

6. The number of fuel assemblies.

a) In the core. 59

b) In the spent fuel storage pool. 712 (568 Unit 2 Spent
Fuel Assemblies, 70
Unit 1 Spent Fuel
Assemblies, and 74
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 2001 (full off load capability)

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 10-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: September 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	720.00	6,551.00	65,735.00
12. Number Of Hours Reactor Was Critical	720.00	6,061.28	50,289.25
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	720.00	5,885.52	48,862.01
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,424,071.04	19,664,624.68	155,962,266.24
17. Gross Electrical Energy Generated (MWH)	820.352.00	6,682,047.00	52,933,729.50
18. Net Electrical Energy Generated (MWH)	781,267.00	6,347,091.97	49,972,001.30
19. Unit Service Factor	100.00%	89.84%	74.33%
20. Unit Availability Factor	100.00%	89.84%	74.33%
21. Unit Capacity Factor (Using MDC Net)	100.47%	89.71%	70.39%
22. Unit Capacity Factor (Using DER Net)	100.47%	89.71%	70.39%
23. Unit Forced Outage Rate	0.00%	10.16%	8.07%
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	NA	NA	
INITIAL ELECTRICITY	NA	NA	
COMMERCIAL OPERATION	NA	NA	

AVERAGE DAILY UNIT POWER LEVEL

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MONTH: September 1991

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1096.08</u>
2	<u>1094.54</u>
3	<u>1094.71</u>
4	<u>1093.21</u>
5	<u>1092.17</u>
6	<u>1087.67</u>
7	<u>1079.96</u>
8	<u>1092.96</u>
9	<u>1091.46</u>
10	<u>1087.25</u>
11	<u>1082.79</u>
12	<u>1082.42</u>
13	<u>1064.08</u>
14	<u>1075.54</u>
15	<u>1081.63</u>
16	<u>1082.75</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1084.79</u>
18	<u>1085.25</u>
19	<u>1083.67</u>
20	<u>1076.00</u>
21	<u>1085.67</u>
22	<u>1084.71</u>
23	<u>1087.46</u>
24	<u>1085.92</u>
25	<u>1086.00</u>
26	<u>1087.04</u>
27	<u>1078.38</u>
28	<u>1083.29</u>
29	<u>1083.04</u>
30	<u>1083.21</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: September 1991

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UNIT 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
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 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

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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<u>Date</u>	<u>Time</u>	<u>Event</u>
September 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1140 MWe gross.
September 30	2359	Unit is in Mode 1 at 100% reactor power. Turbine load at 1125 MWe gross.

REFUELING INFORMATION

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MONTH: September 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?

Yes.

What will these be?

All license amendments associated with the Cycle 6 refueling outage have been approved.

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.

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MONTH: September 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

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

Approximately 2003 (full off load capability)

ATTACHMENT A
ODCM, REVISION 24