

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

DOCKET NO: 50-361  
UNIT NAME: SONGS - 2  
DATE: November 15, 1995  
COMPLETED BY: C. E. Williams  
TELEPHONE: (714) 368-6707

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: October 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	745.00	7,296.00	106,993.00
12. Number Of Hours Reactor Was Critical	745.00	5,330.40	82,104.99
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	745.00	4,768.32	80,399.66
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,440,983.00	15,459,559.00	262,837,414.85
17. Gross Electrical Energy Generated (MWH)	851,988.00	5,237,318.00	89,088,817.50
18. Net Electrical Energy Generated (MWH)	811,820.00	4,942,468.04	84,506,562.91
19. Unit Service Factor	100.00%	65.36%	75.14%
20. Unit Availability Factor	100.00%	65.36%	75.14%
21. Unit Capacity Factor (Using MDC Net)	101.84%	63.31%	73.82%
22. Unit Capacity Factor (Using DER Net)	101.84%	63.31%	73.82%
23. Unit Forced Outage Rate	0.00%	1.82%	5.29%
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	NA	NA
INITIAL ELECTRICITY	NA	NA
COMMERCIAL OPERATION	NA	NA

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**AVERAGE DAILY UNIT POWER LEVEL**

DOCKET NO: 50-361  
 UNIT NAME: SONGS - 2  
 DATE: November 15, 1995  
 COMPLETED BY: C. E. Williams  
 TELEPHONE: (714) 368-6707

MONTH: October 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1134.63
2	1091.25
3	1082.08
4	1086.33
5	1088.67
6	1088.13
7	1089.33
8	1091.17
9	1095.92
10	1095.46
11	1097.46
12	1095.71
13	1096.29
14	1098.79
15	1100.08

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
16	1103.50
17	1101.46
18	1101.46
19	1099.25
20	1098.71
21	1097.50
22	1097.29
23	1096.25
24	1091.83
25	901.83
26	1097.33
27	1100.96
28	1101.33
29	1056.32
30	1102.13
31	1103.38

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361  
 UNIT NAME: SONGS - 2  
 DATE: November 15, 1995  
 COMPLETED BY: C. E. Williams  
 TELEPHONE: (714) 368-6707

REPORT MONTH: October 1995

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	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.

<sup>1</sup>F-Forced  
 S-Scheduled

<sup>2</sup>Reason:  
 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)

<sup>3</sup>Method:  
 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)

<sup>4</sup>IEEE Std 805-1984  
<sup>5</sup>IEEE Std 803A-1983

**SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH**

DOCKET NO: 50-361  
 UNIT NAME: SONGS - 2  
 DATE: November 15, 1995  
 COMPLETED BY: C. E. Williams  
 TELEPHONE: (714) 368-6707

<u>Date</u>	<u>Time</u>	<u>Event</u>
October	01 0001	Unit is in Mode 1, 99.9% power, 1140 MWe.
October	03 1610	Reactor power reduced to 97.2%, 1110 MWe, due to circulating water 24 hour average delta temperature of 20.4 degrees F.
October	04 0600	Reactor power returned to 100% power, 1140 MWe.
October	24 2355	Commenced lowering reactor power in preparation for heat treatment of the circulating water system intake structure.
October	25 0305	Reactor power is at 81%, 890 MWe.
	1050	Completed heat treatment of circulating system, commenced raising reactor power.
	2130	Reactor power returned to 100%, 1154 MWe.
October	29 0200	All clocks adjusted back 1 hour to conform to Pacific Standard Time.
October	31 2400	Unit is in Mode 1, 100% power, 1153 MWe.

REFUELING INFORMATION

DOCKET NO:	<u>50-361</u>
UNIT NAME:	<u>SONGS - 2</u>
DATE:	<u>November 15, 1995</u>
COMPLETED BY:	<u>C. E. Williams</u>
TELEPHONE:	<u>(714) 368-6707</u>

MONTH: October 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  
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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: 50-362  
UNIT NAME: SONGS - 3  
DATE: November 15, 1995  
COMPLETED BY: C. E. Williams  
TELEPHONE: (714) 368-6707

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: October 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	745.00	7,296.00	101,544.00
12. Number Of Hours Reactor Was Critical	745.00	5,786.25	80,472.70
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	745.00	5,712.15	78,755.64
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,522,349.10	18,469,487.41	253,617,533.40
17. Gross Electrical Energy Generated (MWH)	848,048.50	6,249,893.00	86,082,569.50
18. Net Electrical Energy Generated (MWH)	804,523.00	5,906,347.63	81,347,258.56
19. Unit Service Factor	100.00%	78.29%	77.56%
20. Unit Availability Factor	100.00%	78.29%	77.56%
21. Unit Capacity Factor (Using MDC Net)	99.99%	74.96%	74.18%
22. Unit Capacity Factor (Using DER Net)	99.99%	74.96%	74.18%
23. Unit Forced Outage Rate	0.00%	0.00%	5.69%
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: NA
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>



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362  
 UNIT NAME: SONGS - 3  
 DATE: November 15, 1995  
 COMPLETED BY: C. E. Williams  
 TELEPHONE: (714) 368-6707

MONTH: October 1995

DAY LEVEL	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER (MWe-Net)
1	<u>1051.67</u>	16	<u>1097.17</u>
2	<u>1018.71</u>	17	<u>1097.42</u>
3	<u>1022.38</u>	18	<u>1095.75</u>
4	<u>1050.29</u>	19	<u>1094.25</u>
5	<u>1048.83</u>	20	<u>1095.21</u>
6	<u>1047.92</u>	21	<u>1093.83</u>
7	<u>1060.04</u>	22	<u>1092.13</u>
8	<u>1089.33</u>	23	<u>1091.58</u>
9	<u>1092.79</u>	24	<u>1090.83</u>
10	<u>1092.83</u>	25	<u>1089.92</u>
11	<u>1092.92</u>	26	<u>1090.17</u>
12	<u>1093.29</u>	27	<u>1087.96</u>
13	<u>1094.13</u>	28	<u>1082.08</u>
14	<u>1095.13</u>	29	<u>1047.68</u>
15	<u>1097.29</u>	30	<u>1092.00</u>
		31	<u>1092.63</u>



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1995

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No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	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.

<sup>1</sup>F-Forced  
 S-Scheduled

<sup>2</sup>Reason:  
 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)

<sup>3</sup>Method:  
 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)

<sup>4</sup>IEEE Std 805-1984  
<sup>5</sup>IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO:	<u>50-362</u>
UNIT NAME:	<u>SONGS - 3</u>
DATE:	<u>November 15, 1995</u>
COMPLETED BY:	<u>C. E. Williams</u>
TELEPHONE:	<u>(714) 368-6707</u>

<u>Date</u>		<u>Time</u>	<u>Event</u>
October	01	0001	Unit is in Mode 1, 91.3% power, 1045 MWe. Reactor power limited in order to maintain steam generator pressure greater than 855 psia.
October	07	1722	Commenced raising reactor power to full load.
		1920	Reactor at 99.2% power, 1142 MWe.
October	29	0200	All clocks adjusted back 1 hour to conform to Pacific Standard Time.
October	31	2400	Unit is in Mode 1, 99.6% power, 1143 MWe.

REFUELING INFORMATION

DOCKET NO:	<u>50-362</u>
UNIT NAME:	<u>SONGS - 3</u>
DATE:	<u>November 15, 1995</u>
COMPLETED BY:	<u>C. E. Williams</u>
TELEPHONE:	<u>(714) 368-6707</u>

MONTH: October 1995

1. Scheduled date for next refueling shutdown.  
Cycle 9 refueling outage is forecast for March 1997.
2. Scheduled date for restart following refueling.  
Restart from Cycle 9 refueling outage is forecast for May 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: 50-362  
UNIT NAME: SONGS - 3  
DATE: November 15, 1995  
COMPLETED BY: C. E. Williams  
TELEPHONE: (714) 368-6707

6. The number of fuel assemblies.

A. In the core. 217

B. In the spent fuel storage pool. 818 Total Fuel Assemblies  
700 Unit 3 Spent Fuel Assemblies  
0 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).