

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 11/16/92
 COMPLETED BY: J. L. Darling
 TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: October 1992
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	7,320.00	80,713.00
12. Number Of Hours Reactor Was Critical	745.00	6,778.11	59,270.36
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	745.00	6,751.72	58,193.27
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,478,711.41	22,415,846.89	189,937,882.32
17. Gross Electrical Energy Generated (MWH)	836,654.50	7,591,422.50	54,392,725.00
18. Net Electrical Energy Generated (MWH)	797,155.00	7,219,278.00	61,031,612.83
19. Unit Service Factor	100.00%	92.24%	72.10%
20. Unit Availability Factor	100.00%	92.24%	72.10%
21. Unit Capacity Factor (Using MDC Net)	100.00%	92.17%	70.67%
22. Unit Capacity Factor (Using DER Net)	100.00%	92.17%	70.67%
23. Unit Forced Outage Rate	0.00%	7.76%	7.03%
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	NA		NA
INITIAL ELECTRICITY	NA		NA
COMMERCIAL OPERATION	NA		NA

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AVERAGE DAILY UNIT POWER LEVEL

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MONTH: October 1992

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1138.42</u>
2	<u>1079.42</u>
3	<u>1091.25</u>
4	<u>1090.67</u>
5	<u>1088.00</u>
6	<u>1087.25</u>
7	<u>1088.58</u>
8	<u>1090.08</u>
9	<u>1086.04</u>
10	<u>1089.92</u>
11	<u>1091.29</u>
12	<u>1091.04</u>
13	<u>1090.00</u>
14	<u>1086.83</u>
15	<u>1086.96</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

15	<u>1089.54</u>
17	<u>1082.38</u>
18	<u>1091.17</u>
19	<u>1090.58</u>
20	<u>1088.50</u>
21	<u>1086.08</u>
22	<u>1086.08</u>
23	<u>1057.83</u>
24	<u>790.33</u>
25	<u>817.20</u>
26	<u>1085.92</u>
27	<u>1090.17</u>
28	<u>1090.88</u>
29	<u>1091.29</u>
30	<u>1089.04</u>
31	<u>1078.00</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361

UNIT NAME: SONGS - 2

REPORT MONTH: October 1992

DATE: 11/16/92

COMPLETED BY: J. L. Darling

TELEPHONE: (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
78	921024	S	0.0	B	5	NA	KE	COND	Reduced reactor power to 80% to perform circulating water system heat treatment.

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 805-1984⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 11/16/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
October 1	0001	Unit is in Mode 1, 100% Reactor power, 1143 MWe
October 23	2100	Commenced reactor power decrease to 80% power for circulating water system heat treat.
October 24	1000	Completed heat treat.
	1158	Commenced reactor power decrease to 75% to support circ. water pump clearances and other reduced power maintenance.
	1230	Unit at 75% Reactor power.
October 25	0200	All clocks turned back 1 hour to conform to Pacific Standard time.
October 25	1550	Commenced reactor power increase to 100% after completion of reduced power work.
	1920	Unit at 100% reactor power.
October 31	2400	Unit is at 100% reactor power, 1138 MWe.

REFUELING INFORMATION

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MONTH: October 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?

Yes.

What will these be?

The following Technical Specification changes are desired in support of work being performed during the Unit 2 Cycle 7 refueling outage.

- A. A change to Technical Specification 3.9.7 will be requested to permit use of the cask pool cover to support refueling activities. This cover had previously been used to support the spent fuel pool reracking project. NRC approval of this change will be required prior to the start of the outage to support use of the cover during the outage.
- B. A change will be requested to Technical Specification 4.4.5.2.1 to allow a delay in performing an RCS inventory balance during plant transients. Although not required, NRC approval of this change is desired prior to startup from the Unit 2 Cycle 7 outage.
- C. A change will be requested to Technical Specification 3.7.1.1 to allow a tolerance of + or - 2% on the main steam safety valves for the purpose of determining valve operability. Although not required, NRC approval of this change is desired to support the surveillance testing scheduled to be performed during the Unit 2 Cycle 7 outage.

REFUELING INFORMATION

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MONTH: October 1992

- D. A license Amendment and Technical Specification changes will be requested to permit implementation of a design change to use the containment spray pumps for shutdown cooling and spent fuel pool cooling. NRC approval of this change will be requested to permit use of the spray pumps for spent fuel pool cooling during the Unit 2 cycle 7 outage.
4. Scheduled date for submitting proposed licensing action and supporting information.
- | | |
|---------------------------------------|-------------------|
| A. Proposed Change on Cask Pool Cover | December 31, 1992 |
| B. Proposed Change on RCS Leakrate | November 30, 1992 |
| C. Proposed Change on MSSVs | December 31, 1992 |
| D. Proposed Change on Spray Pumps | December 31, 1992 |
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>554 (484 Unit 2 Spent Fuel Assemblies, 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 2001 (full off load capability)

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 11/16/92
 COMPLETED BY: J. L. Darling
 TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: October 1992
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	7,320.00	75,264.00
12. Number Of Hours Reactor Was Critical	745.00	5,237.51	57,735.76
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	745.00	5,071.05	56,142.00
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,508,946.11	16,459,409.78	179,746,834.24
17. Gross Electrical Energy Generated (MWH)	857,316.50	5,545,634.50	60,945,650.50
18. Net Electrical Energy Generated (MWH)	816,445.00	5,230,092.07	57,548,199.36
19. Unit Service Factor	100.00%	69.28%	74.59%
20. Unit Availability Factor	100.00%	69.28%	74.59%
21. Unit Capacity Factor (Using MDC Net)	101.47%	66.16%	70.80%
22. Unit Capacity Factor (Using DER Net)	101.47%	66.16%	70.80%
23. Unit Forced Outage Rate	0.00%	6.54%	7.64%
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	NA		NA
INITIAL ELECTRICITY	NA		NA
COMMERCIAL OPERATION	NA		NA

AVERAGE DAILY UNIT POWER LEVEL

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UNIT NAME: SONGS - 3
DATE: 11/16/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

MONTH: October 1992DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	1155.67
2	1107.21
3	1051.50
4	1101.60
5	1102.08
6	1099.13
7	1102.25
8	1102.96
9	1097.58
10	1084.71
11	1106.88
12	1105.38
13	1102.96
14	1100.50
15	1101.58

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	1099.21
17	1075.38
18	1098.33
19	1097.13
20	1097.75
21	1098.21
22	1096.88
23	1097.17
24	1088.38
25	1050.32
26	1094.71
27	1094.75
28	1094.58
29	1094.92
30	1090.38
31	1085.33

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1992DOCKET NO: 50-362UNIT NAME: SONGS - 3DATE: 11/16/92COMPLETED BY: J. L. DarlingTELEPHONE: (414) 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 power reductions 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

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH:

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<u>Date</u>	<u>Time</u>	<u>Event</u>
October 1	0001	Unit is in Mode 1 at 100% reactor power, 1152 MWe.
October 25	0200	Turned all clocks back 1 hour to conform to Pacific Standard time.
October 31	2400	Unit at 100% reactor power, 1140 MWe.

REFUELING INFORMATION

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DATE:	11/16/92
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MONTH: October 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?

Yes.

What will these be?

The following Technical Specification changes are desired in support of work being performed during the Unit 3 Cycle 7 refueling outage.

- A. A change to Technical Specification 3.9.7 will be requested to permit use of the cask pool cover to support refueling activities. This cover had previously been used to support the spent fuel pool retracking project. NRC approval of this change will be required prior to the start of the outage to support use of the cover during the outage.
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4. Scheduled date for submitting proposed licensing action and supporting information.

A. Proposed Change on Cask Pool Cover	December 31, 1992
B. Proposed Change on RCS Leakrate	November 30, 1992
C. Proposed Change on MSSVs	December 31, 1992
D. Proposed Change on Spray Pumps	December 31, 1992

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. 553 (484 Unit 3 Spent Fuel Assemblies, 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)