

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
UNIT NAME SONGS - 2
DATE 07/15/85
COMPLETED BY M. J. Farrell
TELEPHONE (714) 492-7700
Ext. 56907

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: June 1985
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):
10. Reasons For Restrictions, If Any:

NA

NA

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720.00	4,343.00	16,392.00
12. Number Of Hours Reactor Was Critical	720.00	1,670.49	9,315.71
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	720.00	1,633.99	8,883.58
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,416,341.70	4,951,494.90	29,224,198.20
17. Gross Electrical Energy Generated (MWH)	806,652.50	1,663,441.50	9,873,750.00
18. Net Electrical Energy Generated (MWH)	770,402.00	1,540,548.00	9,305,496.00
19. Unit Service Factor	100.00	37.62	54.19
20. Unit Availability Factor	100.00	37.62	54.19
21. Unit Capacity Factor (Using MDC Net)	100.00	33.15	53.05
22. Unit Capacity Factor (Using DER Net)	100.00	33.15	53.05
23. Unit Forced Outage Rate	0.00	6.81	4.61
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	NA		

25. If Shut Down 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

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MONTH June 1985

DAY AVERAGE DAILY POWER LEVEL (MWe-Net)

1	1050.75
2	1084.96
3	1085.21
4	1079.88
5	1078.46
6	1074.21
7	1073.46
8	1039.46
9	1083.71
10	1082.71
11	1077.38
12	1066.79
13	1075.54
14	1078.50
15	1066.33
16	1077.79

DAY AVERAGE DAILY POWER LEVEL (MWe-Net)

17	1074.38
18	1063.67
19	1080.96
20	1086.04
21	1084.67
22	931.17
23	1086.79
24	1092.33
25	992.54
26	1037.21
27	1101.17
28	1094.83
29	1098.29
30	1100.92
31	NA

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JUNE 1985

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No.	Date	1 Type	Duration (Hours)	2 Reason	Method of Shutting Down 3 Reactor	LER No.	System 4 Code	Component 4 Code	Cause & Corrective Action to Prevent Recurrence
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

1
F-Forced
S-Scheduled

2
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)

3
Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Continuation from
 Previous Month
 5-Reduction of 20%
 or greater in the
 past 24 hours
 9-Other (Explain)

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IEEE Std 863-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361
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Date	Time	Event
June 1	0001	Unit in Mode 1 at 85% reactor power. Returning to full power operations following turbine stop and governor valve testing.
June 1	0655	Reactor power at 100%.
June 7	1430	Commenced power reduction due to CEA #31 dropping to bottom of core.
June 7	1455	CEA #31 realigned, returning to 100% reactor power.
June 8	0202	Commenced power reduction to 90% for turbine stop and governor valve testing.
June 8	0525	Decreasing power further to 85% to "bump" circulating water pump 2P-115 to reduce high seawater differential pressure across main condenser.
June 8	1110	Reactor power returned to 100%.
June 12	2024	Reactor power reduced to 90% for testing of CEA #20.
June 12	2300	Reactor power at 100%.
June 15	0055	Commenced power reduction to 90% for turbine stop and governor valve testing.
June 15	0534	Reactor power at 100%.
June 18	2205	Reactor power reduced to 85% to "bump" all four circulating water pumps to reduce high differential seawater pressure across main condenser.
June 18	2340	Reactor power at 100%.

Summary of Operating Experience for the Month
(Continued)
Unit 2

<u>Date</u>	<u>Time</u>	<u>Event</u>
June 22	0400	Commenced power reduction to 80% for turbine stop and governor valve testing and heat treating of intake structure.
June 22	2155	Commenced power increase to 100%.
June 23	0140	Reactor power at 100%.
June 25	1215	Reactor power reduced to 85% to repair condenser tube leak.
June 26	0910	Reactor power at 100%.
June 30	2359	Unit in Mode 1 at 100% reactor power. Full power operations are planned.

REFUELING INFORMATION

DOCKET NO. 50-361
UNIT SONGS - 2
DATE 07/15/85
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1. Scheduled date for next refueling shutdown.
April 1986
2. Scheduled date for restart following refueling.
July 1986
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Not yet determined.
What will these be?
Not yet determined.
4. Scheduled date for submitting proposed licensing action and supporting information.
Not yet determined.
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 determined.
6. The number of fuel assemblies.
 - a) In the core. 217
 - b) In the spent fuel storage pool. 72
7. Licensed spent fuel storage capacity. 800
Intended change in spent fuel storage capacity. NA
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.
Approximately 1997.

NRC MONTHLY OPERATING REPORT

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Ext. 56907

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: June 1985
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	10,943.00
12. Number Of Hours Reactor Was Critical	720.00	2,969.84	7,390.01
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	720.00	2,883.58	6,995.45
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,583,225.50	8,580,666.70	21,642,255.14
17. Gross Electrical Energy Generated (MWH)	601,836.50	2,935,207.00	7,302,038.50
18. Net Electrical Energy Generated (MWH)	565,913.00	2,754,533.00	6,854,903.00
19. Unit Service Factor	100.00	66.53	63.93
20. Unit Availability Factor	100.00	66.53	63.93
21. Unit Capacity Factor (Using MDC Net)	72.78	58.73	58.00
22. Unit Capacity Factor (Using DER Net)	72.78	58.73	58.00
23. Unit Forced Outage Rate	0	32.09	17.16
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling, September, 1985, 110 days duration.			

25. If Shut Down 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

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MONTH June 1985

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	1065.83
2	1065.54
3	1062.21
4	1042.54
5	1041.21
6	1038.21
7	1030.04
8	1030.83
9	1036.38
10	1052.54
11	1034.33
12	1047.08
13	1059.54
14	1040.21
15	681.58
16	600.04

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

17	607.25
18	606.88
19	596.58
20	582.88
21	583.04
22	578.92
23	575.54
24	538.38
25	506.21
26	499.96
27	498.25
28	497.17
29	491.04
30	489.50
31	NA

UNIT SHUTDOWNS AND POWER REDUCTIONS

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No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down ³ Reactor	LER No.	System Code ⁴	Component Code ⁴	Cause & Corrective Action to Prevent Recurrence
15	850615	S	0	F	5	NA	NA	NA	Power reduction to 60% to prolong unit's initial core and defer commencement of Cycle 1 refueling outage until September, 1985.

1	2	3	4
F-Forced S-Scheduled	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)	Method: 1-Manual 2-Manual Scram. 3-Automatic Scram. 4-Continuation from Previous Month 5-Reduction of 20% or greater in the past 24 hours 9-Other (Explain)	IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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Date	Time	Event
June 1	0001	Unit in Mode 1 at 100% reactor power. Turbine load is 1106 MWe.
June 7	2100	Commenced power reduction to 90% for turbine stop and governor valve testing.
June 8	0300	Reactor power at 100%.
June 11	2000	Commenced power reduction to 85% to "bump" all four circulating water pumps to reduce high differential seawater pressure across main condenser.
June 12	0305	Reactor power returned to 100%.
June 14	2000	Commenced power reduction to 60% to prolong unit's initial core and defer commencement of Cycle 1 refueling outage until September 1985.
June 15	1640	Reactor power at 60%.
June 24	0905	Reactor power reduced further to 55%.
June 30	2359	Unit in Mode 1 at 55% reactor power. Unit will remain at reduced reactor power until commencement of refueling outage.

REFUELING INFORMATION

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1. Scheduled date for next refueling shutdown.

September 1985

2. Scheduled date for restart following refueling.

January 1986

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

Yes

What will these be?

Not yet determined.

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

Proposed Technical Specification change regarding required boric acid volume and concentration (PCN Number 163) was submitted March 9, 1985.

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. Reload analysis is the same as Unit 2.

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 0

7. Licensed spent fuel storage capacity. 800

Intended change in spent fuel storage capacity. NA

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

NA