

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
UNIT SONGS - 2
DATE August 15, 1985
COMPLETED BY R. J. Maisel
TELEPHONE (714) 492-7700
Ext. 56657

OPERATING STATUS

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.00	5,087.00	17,136.00
12. Number Of Hours Reactor Was Critical	744.00	2,414.39	10,059.61
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744.00	2,377.99	9,870.46
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,492,170.10	7,443,665.00	31,716,368.30
17. Gross Electrical Energy Generated (MWH)	831,258.50	2,494,700.00	10,705,008.50
18. Net Electrical Energy Generated (MWH)	793,164.00	2,333,712.00	10,098,660.00
19. Unit Service Factor	100.00	46.75	57.60
20. Unit Availability Factor	100.00	46.75	57.60
21. Unit Capacity Factor (Using MDC Net)	99.63	42.87	55.08
22. Unit Capacity Factor (Using DER Net)	99.63	42.87	55.08
23. Unit Forced Outage Rate	0.00	4.78	4.16
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	N/A		

N/A

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

DOCKET NO. 50-361

UNIT SONGS - 2

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MONTH July 1985

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	1101.17
2	1100.79
3	1095.50
4	1082.25
5	1070.58
6	1054.79
7	1080.50
8	1083.88
9	1083.79
10	1075.79
11	1077.79
12	1068.21
13	1074.13
14	1074.67
15	1074.38
16	1072.04

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	1070.96
18	1070.63
19	1054.92
20	1071.83
21	1073.00
22	1071.38
23	784.50
24	1017.17
25	1074.54
26	1065.25
27	1082.29
28	1087.75
29	1083.79
30	1085.00
31	1085.25

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY 1985

DOCKET NO. 50-361
 UNIT NAME SONGS - 2
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 Ext. 56657

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	850723	S	0	B	5	N/A	TC	PSF	Power reduction to facilitate repair of steam leak on high pressure sealing steam line to high pressure turbine.

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
 6-Other (Explain)

⁴ IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361
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<u>Date</u>	<u>Time</u>	<u>Event</u>
July 1	0001	Unit in Mode 1 at 100% reactor power. Full power operations are planned.
July 5	1935	Commenced power reduction to 95% to facilitate turbine stop and governor valve testing and maintenance on high pressure governor valves UV2200 B, C and G.
July 6	0910	Unit returned to 100% reactor power.
July 12	0820	High pressure turbine governor valve UV2200G failed closed due to high oil temperature. Unit power reduced to 97%.
	1505	Unit returned to 100% reactor power.
July 23	0845	Commenced power reduction to 50% to allow repairs of steam leak on high pressure sealing steam line to high pressure turbine flange.
	1523	Reactor power at 50%.
July 24	1230	Unit returned to 100% reactor power.
July 31	2359	Unit in Mode 1 at 100% reactor power.

REFUELING INFORMATION

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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

DOCKET NO. 50-362
 UNIT NAME SONGS - 3
 DATE August 15, 1985
 COMPLETED BY R. J. Maisel
 TELEPHONE (714) 492-7700
 Ext. 56657

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: July 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):
10. Reasons For Restrictions, If Any:

NA

NA

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.00	5,087.00	11,687.00
12. Number Of Hours Reactor Was Critical	744.00	3,713.84	8,134.01
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744.00	3,633.50	7,739.45
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,416,332.70	9,996,999.40	23,058,587.84
17. Gross Electrical Energy Generated (MWH)	429,410.00	3,364,617.00	7,731,448.50
18. Net Electrical Energy Generated (MWH)	392,279.00	3,146,812.00	7,247,182.00
19. Unit Service Factor	100.00	71.43	66.22
20. Unit Availability Factor	100.00	71.43	66.22
21. Unit Capacity Factor (Using MDC Net)	48.82	57.28	57.42
22. Unit Capacity Factor (Using DER Net)	48.82	57.28	57.42
23. Unit Forced Outage Rate	0	27.32	15.77
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 July 1985

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	526.75
2	527.33
3	526.63
4	516.63
5	512.33
6	511.25
7	515.92
8	517.96
9	518.29
10	516.63
11	517.75
12	728.71
13	567.71
14	519.67
15	520.33
16	519.88

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	519.54
18	519.00
19	519.75
20	522.08
21	520.13
22	517.29
23	515.25
24	515.25
25	513.29
26	515.04
27	521.96
28	523.79
29	515.04
30	513.71
31	514.25

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY 1985

DOCKET NO. 50-362

UNIT NAME SONGS - 3

DATE AUGUST 15, 1985

COMPLETED BY R. J. Maisel

TELEPHONE (714) 492-7723
Ext. 56657

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down ³ Reactor	LER No.	System ⁴ Code	Component ⁴ Code	Cause & Corrective Action to Prevent Recurrence
21	850713	S	0	F	5	N/A	N/A	N/A	Power reduction to 55% 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 6-Other (Explain)	IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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<u>Date</u>	<u>Time</u>	<u>Event</u>
July 1	0001	Unit in Mode 1 at 54.5% reactor power. Unit will remain at reduced reactor power to conserve megawatt days for use during summer peak demand period.
July 12	0200	Commenced power increase to 80% to heat treat intake structure.
July 13	0630	Unit returned to 55% reactor power.
July 31	2359	Unit in Mode 1 at 55% reactor power.

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.
N/A