

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
UNIT SONGS - 2
DATE November 13, 1984
COMPLETED BY L. I. Mayweather
TELEPHONE (714) 492-7700
Ext. 56264

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: October 1984
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	7,320	10,825
12. Number Of Hours Reactor Was Critical	472.97	5,272.52	7,885.22
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	472.87	5,170.77	7,732.47
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,253,483.3	16,584,748.3	25,078,283.3
17. Gross Electrical Energy Generated (MWH)	449,782	5,577,911.5	8,489,876.5
18. Net Electrical Energy Generated (MWH)	423,611	5,272,643	8,048,288
19. Unit Service Factor	63.47	70.64	71.43
20. Unit Availability Factor	63.47	70.64	71.43
21. Unit Capacity Factor (Using MDC Net)	53.14	67.32	69.49
22. Unit Capacity Factor (Using DER Net)	53.14	67.32	69.49
23. Unit Forced Outage Rate	0	3.88	3.85
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
Refueling, October 21, 1984, 3 1/2 month duration (now in progress).			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 2/8/85
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

DOCKET NO. 50-361

UNIT SONGS - 2

DATE November 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56264

MONTH October 1984

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	1100.33
2	1057.00
3	962.96
4	895.92
5	892.71
6	886.54
7	886.46
8	898.38
9	926.83
10	896.67
11	902.21
12	876.33
13	875.58
14	873.08
15	872.17
16	864.75

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	875.79
18	878.17
19	870.96
20	485.25
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER 1984

DOCKET NO. 50-361

UNIT NAME SONGS - 2

DATE November 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 422-7700

Ext. 56264

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
9	841020	S	272.13	C	2	NA	NA	NA	Refueling

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)

⁴
IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361

UNIT SONGS - 2

DATE November 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
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<u>Date/Time</u>	<u>Event</u>
October 1, 0001	Unit is in Mode 1 at 100% power. Turbine load is 1115 MWe gross.
October 2, 1833	Commenced power reduction due to Core Operating Limit Supervisory System (COLSS) being out of service and unsatisfactory COLSS surveillance.
October 3, 0001	Reactor power at 95%. Commenced power reduction to 85% in preparation for start of refueling outage.
October 3, 1355	Reactor power at 85%.
October 9, 1540	4160 VAC Bus 2LA03 tripped during routine synchronization check causing loss of Main Feedwater Pump 2K006. Commenced emergency boration.
October 9, 1550	Reactor power at 77%.
October 9, 1710	Bus 2A03 reenergized, reactor power at 85%.
October 20, 1200	Commenced normal plant shutdown for refueling.
October 20, 1520	Reactor power at 55% and turbine load at 490 MWe gross.
October 20, 1652	Tripped main turbine, reactor power less than 20%.
October 20, 1656	Entered Mode 2.
October 20, 1658	Entered Mode 3.
October 20, 1730	Tripped reactor.
October 22, 0408	Entered Mode 4.
October 22, 2102	Entered Mode 5.
October 27, 1543	Entered Mode 6.
October 31, 2359	Unit is in Mode 6 for refueling.

REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE November 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56264

1. Scheduled date for next refueling shutdown.

Not yet determined.

2. Scheduled date for restart following refueling.

Not yet determined.

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. 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.

Approximately 1997.

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362
UNIT NAME SONGS - 3
DATE November 13, 1984
COMPLETED BY L. I. Mayweather
TELEPHONE (714) 492-7700
Ext. 56264

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: October 1984
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	745	5,136	5,136
12. Number Of Hours Reactor Was Critical	646.62	3,737.44	3,737.44
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	646.35	3,479.32	3,479.32
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,169,606.4	11,099,953.4	11,099,953.4
17. Gross Electrical Energy Generated (MWH)	719,729.5	3,704,372.5	3,704,372.5
18. Net Electrical Energy Generated (MWH)	684,655	3,487,551	3,487,551
19. Unit Service Factor	86.76	67.74	67.74
20. Unit Availability Factor	86.76	67.74	67.74
21. Unit Capacity Factor (Using MDC Net)	85.09	62.87	62.87
22. Unit Capacity Factor (Using DER Net)	85.09	62.87	62.87
23. Unit Forced Outage Rate	0	1.33	1.33
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: 11/23/84
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. 50-362

UNIT SONGS - 3

DATE November 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56264

MONTH October 1984

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1107.83</u>
2	<u>1071.88</u>
3	<u>1073.21</u>
4	<u>1073.42</u>
5	<u>1073.50</u>
6	<u>888.63</u>
7	<u>1082.46</u>
8	<u>1084.00</u>
9	<u>1081.42</u>
10	<u>1079.54</u>
11	<u>1077.71</u>
12	<u>1063.04</u>
13	<u>1079.38</u>
14	<u>1075.67</u>
15	<u>1071.71</u>
16	<u>1072.88</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1074.38</u>
18	<u>1073.83</u>
19	<u>1074.67</u>
20	<u>1063.33</u>
21	<u>1070.25</u>
22	<u>1069.79</u>
23	<u>1072.79</u>
24	<u>1072.88</u>
25	<u>1071.50</u>
26	<u>1069.58</u>
27	<u>865.33</u>
28	<u>0.0</u>
29	<u>0.0</u>
30	<u>0.0</u>
31	<u>0.0</u>

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER 1984

DOCKET NO. 50-362

UNIT NAME SONGS - 3

DATE November 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700

Ext. 56264

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
9	841027	S	98.65	B	2	NA	AB	SG	Repair of primary to secondary leak in Steam Generator E-089. Other work, to include RCP seal replacement and Emergency Chiller and Waste Gas System modifications.

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)	4 IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-362

UNIT SONGS - 3

DATE November 13, 1984

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TELEPHONE (714) 492-7700
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<u>Date/Time</u>	<u>Event</u>
October 1, 0001	Unit is in Mode 1 at 100% power. Turbine load is 1115 MWe gross.
October 6, 0100	Commenced power reduction for performance of turbine stop and governor valve testing.
October 6, 0515	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
October 6, 0550	Reactor power at 85%.
October 7, 0235	Reactor power at 100%.
October 12, 1910	Commenced power reduction for performance of turbine stop and governor valve testing.
October 12, 2250	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
October 13, 0050	Reactor power at 100%.
October 20, 0810	Commenced power reduction for performance of turbine stop and governor valve testing.
October 20, 1035	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
October 20, 1140	Reactor power at 100%.
October 27, 1700	Commenced unit shutdown to repair primary to secondary leak in Steam Generator E-089.
October 27, 1749	Reactor power at 90%.
October 27, 1849	Reactor power at 80%.
October 27, 2045	Reactor power at 60%.
October 27, 2221	Manually tripped main turbine.
October 27, 2225	Entered Mode 2.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH (Continued)

<u>Date/Time</u>	<u>Event</u>
October 27, 2237	Entered Mode 3.
October 28, 1316	Entered Mode 4.
October 30, 1415	Entered Mode 5.
October 31, 2359	Unit is in Mode 5 at 130.7°F. Outage in progress to repair primary to secondary leak in Steam Generator E-089. Other major work to include Reactor Coolant Pump (RCP) seal replacement and Emergency Chiller and Waste Gas System modifications.

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REFUELING INFORMATION

DOCKET NO. 50-362

UNIT SONGS - 3

DATE November 13, 1984

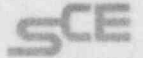
COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56264

1. Scheduled date for next refueling shutdown.
Not yet determined.
2. Scheduled date for restart following refueling.
Not yet determined.
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. 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

Southern California Edison Company



SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

TELEPHONE
(714) 492-7700

November 13, 1984

Director
Office of Management Information and
Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

Subject: Docket Nos. 50-361/50-362
Monthly Operating Reports for October 1984
San Onofre Nuclear Generating Station, Units 2 and 3

Enclosed are the Monthly Operating Reports as required by Section 6.9.1.10 of Appendix A, Technical Specifications to Facility Operating Licenses NPF-10 and NPF-15 for San Onofre Nuclear Generating Station, Units 2 and 3, respectively.

Please contact us if we can be of further assistance.

Sincerely,

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)

F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

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