

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361  
 UNIT SONGS - 2  
 DATE January 15, 1985  
 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: December 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

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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	8,784	12,289
12. Number Of Hours Reactor Was Critical	0	5,272.52	7,885.22
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	0	5,170.77	7,732.47
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	16,584,748.3	25,078,283.3
17. Gross Electrical Energy Generated (MWH)	0	5,577,911.5	8,489,876.5
18. Net Electrical Energy Generated (MWH)	-2,248	5,267,291	8,042,936
19. Unit Service Factor	0	58.87	62.92
20. Unit Availability Factor	0	58.87	62.92
21. Unit Capacity Factor (Using MDC Net)	0	56.04	61.17
22. Unit Capacity Factor (Using DER Net)	0	56.04	61.17
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	<u>NA</u>	<u>NA</u>
INITIAL ELECTRICITY	<u>NA</u>	<u>NA</u>
COMMERCIAL OPERATION	<u>NA</u>	<u>NA</u>

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361

UNIT SONGS - 2

DATE January 15, 1985

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700  
Ext. 56264

MONTH December 1984

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH DECEMBER 1984

DOCKET NO. 50-361  
 UNIT NAME SONGS - 2  
 DATE January 15, 1985  
 COMPLETED BY L. I. Mayweather  
 TELEPHONE (714) 492-7700  
Ext. 56264

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down <sup>3</sup> Reactor	LER No.	System Code <sup>4</sup>	Component Code <sup>4</sup>	Cause & Corrective Action to Prevent Recurrence
9	841020	S	744	C	4	NA	NA	NA	Refueling

<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 of 20%  
 or greater in the  
 past 24 hours  
 9-Other (Explain)

<sup>4</sup> IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361

UNIT SONGS - 2

DATE January 15, 1985

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700  
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<u>Date/Time</u>	<u>Event</u>
December 1, 0001	Unit remains defueled in day 42 of refueling/design change outage. Shutdown Cooling Train A and B modification in progress.
December 11, 1950	Fuel inspection of fuel in fuel inspection stand stopped due to report of 23rd fuel assembly binding in the stand. Investigation in progress.
December 22, 2255	Began high pressure hydro of shutdown cooling system.
December 31, 2359	Unit remains defueled. Shutdown cooling system flush in progress. Bound fuel assembly investigation in progress.

## REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE January 15, 1985

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. 0

b) In the spent fuel storage pool. 217

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 January 15, 1985  
 COMPLETED BY L. I. Mayweather  
 TELEPHONE (714) 492-7700  
Ext. 55264

## OPERATING STATUS

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	6,600	6,600
12. Number Of Hours Reactor Was Critical	682.73	4,420.17	4,420.17
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	626.63	4,105.95	4,105.95
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,961,635	13,061,588.4	13,061,588.4
17. Gross Electrical Energy Generated (MWH)	662,459	4,366,831.5	4,366,831.5
18. Net Electrical Energy Generated (MWH)	624,666	4,100,370	4,100,370
19. Unit Service Factor	84.22	62.21	62.21
20. Unit Availability Factor	84.22	62.21	62.21
21. Unit Capacity Factor (Using MDC Net)	77.74	57.52	57.52
22. Unit Capacity Factor (Using DER Net)	77.74	57.52	57.52
23. Unit Forced Outage Rate	0	0	0
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>NA</u>		

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
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>

\* These numbers have been revised based on audit of the July 1984 values.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-362

UNIT SONGS - 3

DATE January 15, 1985

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700  
Ext. 56264

MONTH December 1984

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>25.04</u>
5	<u>292.63</u>
6	<u>708.71</u>
7	<u>0</u>
8	<u>314.92</u>
9	<u>634.67</u>
10	<u>1,102.38</u>
11	<u>1,111.25</u>
12	<u>1,109.79</u>
13	<u>1,110.58</u>
14	<u>1,093.33</u>
15	<u>1,110.71</u>
16	<u>1,113.83</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>1,111.50</u>
18	<u>1,112.50</u>
19	<u>1,108.75</u>
20	<u>1,110.13</u>
21	<u>1,087.96</u>
22	<u>1,079.21</u>
23	<u>1,108.38</u>
24	<u>1,104.38</u>
25	<u>1,103.67</u>
26	<u>1,104.92</u>
27	<u>1,103.21</u>
28	<u>1,087.33</u>
29	<u>1,098.46</u>
30	<u>1,098.88</u>
31	<u>1,057.83</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER 1984

DOCKET NO. 50-362  
 UNIT NAME SONGS - 3  
 DATE January 15, 1985  
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 TELEPHONE (714) 492-7700  
 Ext. 56264

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down <sup>3</sup> Reactor	LER No.	System <sup>4</sup> Code	Component <sup>4</sup> Code	Cause & Corrective Action to Prevent Recurrence
9	841027	S	80.85	B	4	NA	AB	SG	Continuation of scheduled outage for repair of primary to secondary leak in Steam Generator E-089.
10	841206	F	36.52	A	3	84-040	TA	UPS	Voltage transient on one phase on Non-1E uninterruptible power supply electrical system generated a turbine and subsequent reactor trip due to failed power supply on the load rejection trip panel. All power supplies and circuit units on the load rejection trip panel were replaced.

<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 of 20%  
 or greater in the  
 past 24 hours  
 9-Other (Explain)

<sup>4</sup> IEEE Std 803-1983



**SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH**

DOCKET NO. 50-362  
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<u>Date/Time</u>		<u>Event</u>
December 1	0001	Unit is in Mode 3. Preparations for Mode 2 entry and completion of the steam generator repair outage are in progress.
December 2	2006	Entered Mode 2.
December 2	2035	Reactor critical.
December 4	0510	Entered Mode 1.
December 4	0851	Unit synchronized to the grid following approximately a twenty-four hour delay due to the failure of an actuator for one of the main feedwater regulating bypass valves (3FV1106).
December 4	1000	Reactor power stabilized at 20% for repair of a pressurizer level transmitter (LT110-1) in containment.
December 5	0530	Repair was completed and reactor power is being increased 3% per hour.
December 5	2205	Power is restrained at 65% until repairs are made to the solenoid dump valve SV-12 of main feedwater pump turbine K006.
December 5	0900	Commenced power increase to 100%.
December 6	1420	Achieved 100% reactor power.
December 6	1947	Reactor tripped due to a bad power supply in the turbine load rejection panel.
December 7	1219	Entered Mode 2.
December 7	1228	Reactor critical.
December 8	0130	Entered Mode 1.
December 8	0818	Synchronized generator and applied block load.
December 8	1255	Reactor power is at 61.5% power. Restrained at this point until repairs to the pressure level cold calibrated transmitter is completed.
December 9	2030	Commenced power increase following repairs to transmitter.
December 10	0135	Unit is at 100% power.

December 13	2231	Reactor power reduced due to loss of COLSS (Core Operating Limit Supervisory System).
	2235	Initiated power increase after COLSS declared operable.
December 14	0001	Unit is at 100% power.
	1905	Commenced load reduction to 90% for weekly turbine stop and governor valve testing.
December 15	0001	Unit returned to 100% after satisfactory completion of turbine stop and governor valve testing.
December 21	2000	Commenced load reduction to 90% for turbine stop and governor valve testing.
December 22	0730	Raised reactor power to 100% following turbine valve testing.
December 28	1950	Commenced load reduction to 90% to perform turbine stop and governor valve testing.
December 29	0125	Reactor power is at 100%.
December 30	1851	A reduction in power was initiated due to a COLSS failure.
December 30	1930	Unit returned to full power following restoration of COLSS.
December 31	1616	Reduced power due to COLSS out of service.
December 31	2035	COLSS declared operable after replacing the #3 power supply. Initiated increase in power.
December 31	2142	Unit at 90% power.
December 31	2359	Unit is in Mode 1 and returning to full power operations.

# REFUELING INFORMATION

DOCKET NO. 50-362

UNIT SONGS - 3

DATE January 15, 1985

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700  
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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

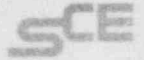
Intended change in spent fuel storage capacity. NA

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

NA

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*Southern California Edison Company*



SAN ONOFRE NUCLEAR GENERATING STATION  
P.O. BOX 128  
SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES  
STATION MANAGER

January 15, 1985

TELEPHONE  
(714) 492-7700

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 December 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,

*RW Krueger for JG Haynes*

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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