

# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362  
UNIT SONGS - 2  
DATE February 15, 1984  
COMPLETED BY C. A. Morris  
TELEPHONE (714) 492-7700  
Ext. 56264

## OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: 1 January 1983 through 31 January 1983
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	744	11964.2
12. Number Of Hours Reactor Was Critical	298.55	298.55	6935.90
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	279.90	279.90	5460.77
15. Unit Reserve Shutdown hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	879,377.4	879,377.4	14,097,243.8
17. Gross Electrical Energy Generated (MWH)	302,580.5	302,580.5	4,538,385.0
18. Net Electrical Energy Generated (MWH)	282,230.5	282,230.5	4,139,795.0
19. Unit Service Factor	NA	NA	NA
20. Unit Availability Factor	NA	NA	NA
21. Unit Capacity Factor (Using MDC Net)	NA	NA	NA
22. Unit Capacity Factor (Using DER Net)	NA	NA	NA
23. Unit Forced Outage Rate	NA	NA	NA
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	None		

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 12 February 1984
26. Units In Test Status (Prior To Commercial Operation): Forecast      Achieved

INITIAL CRITICALITY	<u>7/17/82</u>	<u>7/26/82</u>
INITIAL ELECTRICITY	<u>9/82</u>	<u>9/20/82</u>
COMMERCIAL OPERATION	<u>Under Review</u>	

\* These numbers have been revised to reflect updated Station auxiliary loads and potential decreased capacity associated with normal wear, system fouling, etc.  
0565u

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361

UNIT SONGS - 2

DATE February 15, 1984

COMPLETED BY C. A. Morris

TELEPHONE (714) 492-7700  
Ext. 56264

MONTH January 1984

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	1168.45
2	1088.97
3	1110.53
4	936.39
5	0
6	360.47
7	1156.16
8	1167.20
9	1182.76
10	1183.24
11	1160.60
12	1057.87
13	1033.80
14	0
15	0
16	0

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

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

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY, 1984

DOCKET NO. 50-361

UNIT NAME SONGS - 2

DATE February 15, 1984

COMPLETED BY C. A. Morris

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>5</sup> Code	Cause & Corrective Action to Prevent Recurrence
26	840104	F	31.6	A	2	NA	CD	VALVEX	Unit was shut down to repair a nitrogen leak in Main Steam Isolation Valve 2HV-8204
27	840113	F	432.5	A	1	NA	CB	PUMPXX	Unit was shut down for reactor coolant pump seal replacement.

1	2	3	4	5
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)	Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)	Exhibit H-Same Source

0565u

# SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361

UNIT SONGS - 2

DATE February 15, 1984

COMPLETED BY C. A. Morris

TELEPHONE (714) 492-7700  
Ext. 56264

<u>Date/Time</u>	<u>Event</u>
January 1, 0001	Unit is in Mode 1 at 100% reactor power. Turbine load is 1180 MWe gross.
January 2, 0245	Reduced reactor power to 74% and turbine load to 865 MWe gross at request of the SCE Energy Control Center.
January 3, 0600	Raised reactor power to 100% and turbine load to 1185 MWe gross.
January 4, 0230	Reduced reactor power to 83% and turbine load to 982 MWe gross at request of the SCE Energy Control Center.
January 4, 0645	Raised reactor power to 100% and turbine load to 1186 MWe gross.
January 4, 2034	Reduced reactor power to 15% and turbine load to 100 MWe gross. Tripped turbine and subsequently tripped reactor at 2047 to repair a nitrogen leak on a solenoid valve for main steam isolation valve HV-8204.
January 5, 0950	Entered Mode 2.
January 5, 0959	Reactor critical.
January 5, 1925	Satisfactorily completed testing of HV-8204 following completion of repairs.
January 6, 0220	Entered Mode 1.
January 6, 0410	Synchronized generator, applied block load, and commenced power increase.
January 7, 0319	Achieved 100% reactor power and turbine load of 1180 MWe gross.
January 12, 1435	Reduced reactor power to 85% and turbine load to 940 MWe gross to repair a leak in circulating water pump P-118 discharge.
January 13, 0412	Raised reactor power to 100% following repair of P-118.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

<u>Date/Time</u>	<u>Event</u>
January 13, 1807	Commenced power reduction in preparation for reactor coolant pump seal outage.
January 13, 2330	Manually tripped turbine from 100 MWe gross.
January 13, 2333	Entered Mode 2.
January 13, 2345	Entered Mode 3.
January 14, 1415	Entered Mode 4.
January 15, 0023	Entered Mode 5 and commenced scheduled outage activities.
January 31, 2359	Unit is in Mode 5 at 105 degrees. The reactor coolant system is depressurized and drained to midloop. A reactor coolant pump seal outage is in progress.

0565u



## REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE February 15, 1984

COMPLETED BY C. A. Morris

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

# NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362  
UNIT SONGS - 3  
DATE February 15, 1984  
COMPLETED BY C. A. Morris  
TELEPHONE (714) 492-7700  
Ext. 56264

## OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: 1 January 1983 through 31 January 1983
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	744	744	3073
12. Number Of Hours Reactor Was Critical	142.80	142.80	2221.96
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	123.00	123.00	123.00
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	415,741.2	415,741.2	3,964,610.5
17. Gross Electrical Energy Generated (MWH)	140,226.5	140,226.5	1,238,514.0
18. Net Electrical Energy Generated (MWH)	126,656.5	126,656.5	1,123,714.0
19. Unit Service Factor	NA	NA	NA
20. Unit Availability Factor	NA	NA	NA
21. Unit Capacity Factor (Using MDC Net)	NA	NA	NA
22. Unit Capacity Factor (Using DER Net)	NA	NA	NA
23. Unit Forced Outage Rate	NA	NA	NA
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: 25 February 1984
26. Units In Test Status (Prior To Commercial Operation):

Forecast      Achieved

INITIAL CRITICALITY	-	8/29/83
INITIAL ELECTRICITY	-	9/25/83
COMMERCIAL OPERATION	Under Review	

\* These numbers have been revised to reflect updated Station auxiliary loads and potential decreased capacity associated with normal wear, system fouling, etc.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-362  
 UNIT SONGS - 3  
 DATE February 15, 1984  
 COMPLETED BY C. A. Morris  
 TELEPHONE (714) 492-7700  
Ext. 56264

MONTH January 1984

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1138.39</u>
2	<u>1142.54</u>
3	<u>1140.29</u>
4	<u>1142.18</u>
5	<u>1134.60</u>
6	<u>144.54</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 JANUARY, 1984

DOCKET NO. 50-362

UNIT NAME SONGS - 3

DATE February 15, 1984

COMPLETED BY C. A. Morris

TELEPHONE (714) 492-7700

Ext. 56264

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
13	840106	S	621.0	B	2	NA	NA	NA	Unit tripped from 100% power in accordance with startup testing. Unit remained shutdown for a surveillance and reactor coolant pump seal outage.

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  
Exhibit F - Instructions  
for Preparation of Data  
Entry Sheets for Licensee  
Event Report (LER) File  
(NUREG 0161)

5  
Exhibit H-Same Source

0565u

# SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-362  
UNIT SONGS - 3  
DATE February 15, 1984  
COMPLETED BY C. A. Morris  
TELEPHONE (714) 492-7700  
Ext. 56264

<u>Date/Time</u>	<u>Event</u>
January 1, 0001	Unit is in Mode 1 at 100% reactor power. Turbine load is 1145 MWe gross.
January 6, 0300	Performed the "Generator Trip and Dynamics Effects Test" from 100% reactor power. Reactor tripped accordingly when unit circuit breakers were intentionally opened.
January 6, 0430	Entered Mode 2.
January 6, 0442	Reactor critical.
January 7, 0010	Commenced reactor shutdown in preparation for surveillance and reactor coolant pump seal outage.
January 7, 0020	Entered Mode 3.
January 7, 1435	Entered Mode 4.
January 8, 0425	Entered Mode 5 and commenced scheduled outage activities.
January 13, 0215	Discovered leaking seal on low pressure safety injection pump (LPSI) P-016 delaying draining of the reactor coolant system for reactor coolant pump seal replacement.
January 30, 1000	Satisfactorily completed inservice testing of LPSI P-015 for shutdown cooling, following completion of repairs.
January 30, 2359	Unit is in Mode 5 at 127°F. The reactor coolant system is depressurized and drained to midloop. A surveillance and reactor coolant pump seal outage is in progress.

0565u

## REFUELING INFORMATION

DOCKET NO. 50-362  
UNIT SONGS - 3  
DATE February 15, 1984  
COMPLETED BY C. A. Morris  
TELEPHONE (714) 492-7700  
Ext. 56246

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

February 15, 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 January 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,

*J. G. Haynes*

Enclosures

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

A. E. Chaffee (USNRC Resident Inspector, Units 1, 2 and 3)  
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

IE24  
1/1