

NRC MONTHLY OPERATING REPORT

DOCKET NO 50-361
 DATE February 15, 1983
 COMPLETED BY L. Mayweather
 TELEPHONE 714/492-7700
 Ext. 56223

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): 1087
 6. Maximum Dependable Capacity (Gross MWe): 1127
 7. Maximum Dependable Capacity (Net MWe): 1087
 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	3,204.5
12. Number Of Hours Reactor Was Critical	566.8	566.8	1,600.3
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	378.5	378.5	1,202.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	594,800	594,800	1,523,140
17. Gross Electrical Energy Generated (MWH)	143,000	143,000	338,012
18. Net Electrical Energy Generated (MWH)	111,500	111,500	237,520
19. Unit Service Factor	NA	NA	NA
20. Unit Availability Factor	NA	NA	NA
21. Unit Capacity Factor (Using MDC Net)	0	0	0
22. Unit Capacity Factor (Using DER Net)	0	0	0
23. Unit Forced Outage Rate	0	0	0
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 NA
 26. Units In Test Status (Prior to Commercial Operation):
- | | Forecast | Achieved |
|----------------------|--------------|-----------|
| INITIAL CRITICALITY | 7/17/1982 | 7/26/1982 |
| INITIAL ELECTRICITY | 9/1982 | 9/20/1982 |
| COMMERCIAL OPERATION | Under review | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361
 UNIT SONGS - 2
 DATE February 15, 1983
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 TELEPHONE 714/492-7700
 Ext. 56223

MONTH January 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	13.3
4	72.3
5	0
6	46.4
7	151.5
8	396.0
9	411.7
10	405.4
11	411.0
12	403.9
13	416.3
14	400.4
15	176.6
16	394.3

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	204.4
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	31.9
27	263.2
28	393.1
29	392.1
30	76.1
31	0

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY 1983

DOCKET NO. 50-361
 UNIT NAME SONGS - 2
 DATE February 15, 1983
 COMPLETED BY L. Mayweather
 TELEPHONE 714/492-7700
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No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
11	821212	F	51	A	4	82-168	IA	INSTRU	Trip on high LPD/low DNBR signal caused by faulty reed switch. Faulty reed switch replaced. Unit remained down for repair of RCP seals and turbine valves.
1	830103	F	10.75	A	3	NA	HA	VALVEX	Reactor loss of load trip due to turbine stop and governor valve oscillations.
2	830103	F	1.25	A	NA	NA	HA	VALVEX	Turbine trip due to failed resistor in control circuit for 2HV-2200L. Failed resistor replaced.
3	830104	F	49.5	A	3	NA	HA	VALVEX	Turbine trip due to control valve problems which resulted in reactor trip due to high pressurizer pressure.
4	830117	F	77.5	A	3	NA	HC	HTEXCH	Reactor trip on high steam generator level. Condenser tube leakage. Leaking tubes repaired.

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)

Exhibit H Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January 1983 (Contd)

DOCKET NO. 50-361
 UNIT NAME SONGS - 2
 DATE February 15, 1983
 COMPLETED BY J. Mayweather
 TELEPHONE 714/492-7700 Ext. 56223

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
5	830120	F	108.75	A	NA	NA	WE	HTEXCH	Manual turbine trip due to saltwater leak.
6	830125	F	25.66	A	NA	NA	HC	HTEXCH	Manual turbine trip due to high chloride levels in condensate system and steam generators.
7	830130	F	41.1	A	3	NA	HA	VALVEX	Turbine manually tripped as part of "controlled" shutdown. Reactor tripped on high steam generator level.

1 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)
 Exhibit H - Same Source

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361
UNIT SONGS - 2
DATE February 15, 1983
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January 1,	0001	Unit is in Mode 2. Reactor power is at 1%. Preparations are in progress to raise reactor power to 50% and resume 50% power level testing.
January 1,	0403	Entered Mode 1.
January 1,	1215	Reduced reactor power to 1% (entered Mode 2) due to saltwater leak in the southeast condenser. Feedwater was isolated from the steam generators and cleanup of the condensate feedwater system was effected.
January 2,	2230	Entered Mode 1.
January 2,	2245	Reactor power at 10%.
January 3,	0300	Synchronized generator and applied block load of 100 MWe gross.
January 3,	0502	Reactor loss of load trip initiated when stop and governor valve oscillations were experienced (entered Mode 3).
January 3,	1149	Entered Mode 2.
January 3,	1206	Reactor critical.
January 3,	1433	Entered Mode 1.
January 3,	1547	Synchronized generator and applied block load of 80 MWe gross.
January 3,	1620	Turbine tripped due to incorrect CVOL setting.
January 3,	1735	Synchronized generator and applied block load of 80 MWe gross.
January 3,	1745	Raised turbine load to 140 MWe gross.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH OF JANUARY, 1983
Page 2 of 4

January 4, 0110	Received indication of saltwater leak on northwest condenser. Began reducing turbine load.
January 4, 0605	Turbine tripped due to control valve problems which resulted in a reactor trip due to high pressurizer pressure (entered Mode 3).
January 4, 1305	Commenced RCS cooldown to 350° F to effect cleanup of the steam generators and condensate feedwater system due to chloride contamination.
January 5, 1501	Entered Mode 2.
January 5, 1519	Reached the +.5% $\Delta K/K$ CEA position without achieving criticality. Inserted CEA's to -1.5% $\Delta K/K$ position for estimated critical position (E.C.P.) review.
January 5, 1535	Entered Mode 3.
January 5, 1700	Completed E.C.P. review. Diluted reactor coolant system 1,650 gallons (770 to 750 ppm) to support new E.C.P.
January 5, 1845	Entered Mode 2.
January 5, 1900	Reactor critical.
January 6, 0400	Entered Mode 1.
January 6, 0735	Synchronized generator and applied block load of 80 MWe gross.
January 7, 1845	Reactor power at 50%, generator load at 460 MWe gross. Fifty percent power level testing has resumed.
January 17, 1040	Saltwater leak discovered in the northwest condenser waterbox.
January 17, 1335	Started turbine load reduction due to indication of saltwater leak in the southeast and southwest condenser waterboxes, northwest hotwell already in overboard mode.
January 17, 1350	Tripped main turbine at 60 MWe from Control Room.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH OF JANUARY 1983
Page 3 of 4

January 17,	1400	Reactor tripped on high steam generator level (entered Mode 3).
January 17,	2045	Unit cooled down to 340°F.
January 18,	0432	Entered Mode 4.
January 18,	1440	Entered Mode 3.
January 19,	1225	Entered Mode 2.
January 19,	1335	Reactor critical.
January 20,	1140	Entered Mode 1.
January 20,	1921	Synchronized generator and applied block load of 80 MWe gross.
January 20,	2100	Manually tripped turbine generator due to a saltwater leak in the P-118 waterbox (southwest).
January 20,	2120	Entered Mode 2.
January 21,	1200	Tripped reactor due to a computer outage removing manual and sequential rod movement (entered Mode 3).
January 24,	1530	Entered Mode 2.
January 24,	1550	Reactor critical.
January 25,	0622	Entered Mode 1.
January 25,	0945	Synchronized generator and applied block load of 100 MWe gross.
January 25,	1115	Manually tripped turbine generator due to high chloride levels in the condensate system and steam generators.
January 25,	1145	Lowered reactor power to .5% (entered Mode 2).
January 26,	1016	Entered Mode 1.
January 26,	1255	Synchronized generator and applied block load.
January 27,	0750	Increased reactor power to 50%. Generator load at 435 MWe gross.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH OF JANUARY 1983
Page 4 of 4

January 30,	0656	Turbine manually tripped as part of "controlled" shutdown. Steam bypass was actuated and a water hammer was experienced in the vicinity of the steam bypass valves. Reactor tripped on high steam generator level (entered Mode 3).
January 30,	1413	Entered Mode 2.
January 30,	1430	Reactor critical.
January 30,	1456	Dropped Control Element Assembly (CEA) #79.
January 30,	1523	Dropped CEA #86.
January 30,	1531	CEA #86 at upper electrical limit.
January 30,	1542	Entered Mode 3.
January 30,	1603	CEA #79 at upper electrical limit.
January 30,	1737	Entered Mode 2.
January 30,	1757	Reactor critical.
January 31,	2359	Unit is in Mode 2 at 0.5% reactor power.

REFUELING INFORMATION

DOCKET NO. 50-361
UNIT SONGS - 2
DATE February 15, 1983
COMPLETED BY L. Mayweather
TELEPHONE 714/492-7700 Ext. 56223

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

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 DATE February 15, 1983
 COMPLETED BY L. Mayweather
 TELEPHONE 714/492-7700
 Ext. 56223

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): 1087
 6. Maximum Dependable Capacity (Gross MWe): 1127
 7. Maximum Dependable Capacity (Net MWe): 1087
 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: Unit is still in initial startup phase of testing.

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>744</u>	<u>1872</u>
12. Number Of Hours Reactor Was Critical	<u>0</u>	<u>0</u>	<u>0</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>0</u>	<u>0</u>	<u>0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>0</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>0</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>0</u>	<u>0</u>
19. Unit Service Factor	<u>NA</u>	<u>NA</u>	<u>NA</u>
20. Unit Availability Factor	<u>NA</u>	<u>NA</u>	<u>NA</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>0</u>	<u>0</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>0</u>	<u>0</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>0</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>None</u>		

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 | <u>Under review</u> | <u> </u> |
| INITIAL ELECTRICITY | <u>Under review</u> | <u> </u> |
| COMMERCIAL OPERATION | <u>Under review</u> | <u> </u> |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-362
UNIT SONGS - 3
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MONTH JANUARY 1983

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 JANUARY 1983

DOCKET NO. 50-362
 UNIT NAME SONGS - 3
 DATE February 15, 1983
 COMPLETED BY L. Mayweather
 TELEPHONE 714/494-7700 Ext. 56223

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
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)

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

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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UNIT SONGS - 3
DATE February 15, 1983
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January 1,	0001	Unit is in Mode 5, 180°F. Preparations for entering Mode 4 are in progress.
January 5,	2149	Entered Mode 4.
January 15,	1530	Completed cold rod drop testing.
January 18,	1453	Entered Mode 3
January 23,	0119	Reactor coolant system at 545°F.
January 25,	2030	Discovered nitrogen leak in safety injection tank T-008.
January 25,	2105	Commenced cooldown of reactor coolant system for Mode 4 entry.
January 25,	2123	Repressurized T-008 to 600 psig, stopped cooldown and exited action statement.
January 30,	0230	Commenced hot rod drop testing.
January 31,	2359	Unit is in Mode 3 at 545°F. Hot rod drop testing is in progress.

REFUELING INFORMATION

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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