

## NRC MONTHLY OPERATING REPORT

DOCKET NO 50-361  
 DATE 12/15/82  
 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 November 1982 through 30 November 1982  
 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	720	6,912	6,912
12. Number Of Hours Reactor Was Critical	459	1,465	1,465
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	361	555	555
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	310,000	490,000	490,000
17. Gross Electrical Energy Generated (MWH)	46,750	66,400	66,400
18. Net Electrical Energy Generated (MWH)	17,400	17,400	17,400
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:

26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY

7/17/82

7/26/82

INITIAL ELECTRICITY

9/82

9/20/82

COMMERCIAL OPERATION

Under Review

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361  
UNIT SONGS-2  
DATE 12/15/82  
COMPLETED BY J. Mayweather  
TELEPHONE 714/492-7700  
Ext. 56223

MONTH November

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>50.8</u>
2	<u>49.6</u>
3	<u>48.2</u>
4	<u>47.5</u>
5	<u>46.5</u>
6	<u>61.6</u>
7	<u>58.6</u>
8	<u>50.5</u>
9	<u>23.6</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>62.5</u>
15	<u>109.5</u>
16	<u>156.0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>162.8</u>
18	<u>179.9</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>85.5</u>
25	<u>105.6</u>
26	<u>101.0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>NA</u>

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER

DOCKET NO. 50-361

UNIT NAME SONGS 2DATE 12/15/82COMPLETED BY L. MayweatherTELEPHONE 714/494-7700 Ext. 56223

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
1	11/9/82	F	45	H	2	82-138	CH	xxxxxx	Loss of power supply to Feedwater Control System. Supply connections secured in place to prevent inadvertent dislodging.
2	11/11/82	F	14	H	3	82-144	IA	CRDRVE	Overheating of Control Element Drive Mechanism cabinet. Added controls on work performed in cabinet vicinity.
3	11/12/82	S	10	B	3	NO	IA	zzzzzz	Manual trip for testing.
4	11/13/82	F	9	A	3	NO	HH	VALVEX	High steam generator level caused by failed open feedwater regulating valve. Corrective action under study.
5	11/13/82	F	6	H	3	82-139	IA	CRDRVE	Slipped Control Element Assemblies. Gripper voltage increased on all regulating rods. Voltage duration increased by 100msc. for CEA 23.

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-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

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER

DOCKET NO. 50-361  
 UNIT NAME SCNGS 2  
 DATE 12/15/82  
 COMPLETED BY L. Mayweather  
 TELEPHONE 714/492-7700 Ext. 56223

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
6	11/17/82	F	148	A	3	NO	HC	HTEXCH	Sea water leak into the condenser. Repaired condenser tubes.
7	11/23/82	F	5	A	3	NO	HH	VALVEX	High steam generator level caused by faulty feedwater regulating valve. Corrective action under study.
8	11/26/82	F	77	A	3	NO	HH	VALVEX	High steam generator level caused by faulty feedwater regulating valve. Corrective action under study.

<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-Other (Explain)

<sup>4</sup>  
 Exhibit F - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (IER) File (NUREG  
 0161)

<sup>5</sup>  
 Exhibit H - Same Source



SUMMARY OF OPERATING EXPERIENCE FOR THE MONTHDOCKET NO. 50-361UNIT SOLIGS - 2DATE 12/15/82COMPLETED BY L. MayweatherTELEPHONE 714/492-7700 Ext. 56223

November 1	0001	Unit in Mode 1 and power level approximately 20% (99MWe). Power ascension testing is in progress.
November 9	1600	Manually tripped reactor due to an impending automatic reactor trip on low steam generator level.
November 9	1740	Declared and terminated an Unusual Event per the Emergency Plan. Cause was manual trip and subsequent ECCS initiation.
November 10	2250	Entered Mode 2.
November 11	1253	Entered Mode 1.
November 11	1834	Reactor tripped on high LPD/low DNBR due to dropped CEA's.
November 12	0420	Entered Mode 2. Reactor critical at 0406.
November 12	0835	Entered Mode 1.
November 12	1258	Synchronized generator and applied block load. Achieved 20% power at 1310.
November 12	1536	Tripped reactor at 20% power per power ascension testing.
November 13	0030	Entered Mode 2. Reactor critical at 0110.
November 13	0540	Automatic reactor trip due to high steam generator level caused by failed open feedwater regulating valve.
November 13	1125	Entered Mode 2. Reactor critical at 1150.
November 13	1420	Entered Mode 1.
November 13	1631	Synchronized generator and applied block load of 70 MWe.
November 13	1636	Reactor tripped on high LPD/low DNBR due to dropped CEA's.
November 13	2250	Entered Mode 1
November 14	0135	Synchronized generator and applied block load of 90MWe. Raised power to 19%.
November 15	1300	Reactor power at 30%.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. \_\_\_\_\_

UNIT \_\_\_\_\_

DATE \_\_\_\_\_

COMPLETED BY \_\_\_\_\_

TELEPHONE \_\_\_\_\_

November 16	2300	Achieved 50% power. Turbine load at 450MWe.
November 17	1047	Tripped main turbine. Reactor tripped automatically on high steam generator level.
November 17	2202	Entered Mode 4. A condenser leak resulted in high chloride levels in the steam generators. Unit is proceeding to Mode 5 for cleanup.
November 18	0700	Entered Mode 5.
November 20	1050	Entered Mode 4. Cleanup of the steam generator and condensate system is complete.
November 21	2010	Entered Mode 3.
November 22	1905	Entered Mode 2. Reactor critical at 1918.
November 23	1505	Reactor tripped automatically at 4.7% power on high steam generator level.
November 23	1715	Entered Mode 2. Reactor critical at 1715.
November 23	1950	Entered Mode 1.
November 23	2253	Synchronized generator and applied block load of 60MWe.
November 26	2053	Reactor tripped automatically on high steam generator level due to main feedwater regulating valve drifting open.
November 29	1730	Entered Mode 2. Reactor critical at 1810.
November 30	0130	Entered Mode 1.
November 30	0921	Synchronized generator and applied block load of 60MWe.
November 30	1037	Main turbine trip due to Reheater Drain Tank high level.
November 30	2359	Reactor power at 12% and slowly rising due to xenon burnout. Main turbine at 1800 rpm.

# REFUELING INFORMATION

DOCKET NO. 50-361  
 UNIT SONGS - 2  
 DATE 12/15/82  
 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

DOCKET NO. 50-362  
 DATE 12/15/82  
 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: 15 November 1982 through 30 November 1982  
 3. Licensed Thermal Power (MWt): 169.5  
 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 Reason: 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	384	384	384
12. Number Of Hours Reactor Was Critical	0	0	0
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	0	0	0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	0	0
17. Gross Electrical Energy Generated (MWH)	0	0	0
18. Net Electrical Energy Generated (MWH)	0	0	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: 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  
DATE 12/15/82

COMPLETED BY L. Mayweather  
TELEPHONE 714/492-7700 Ext. 56223

MONTH NOVEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
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	NA

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER

DOCKET NO. 50-362  
 UNIT NAME SONGS-3  
 DATE 12/15/82  
 COMPLETED BY Mayweather  
 TELEPHONE 714/454-7700 Ext. 56223

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

<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-Other (Explain)

<sup>4</sup>  
 Exhibit F - Instructions  
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<sup>5</sup>  
 Exhibit H - Same Source

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-362  
UNIT SONGS - 3  
DATE 12/15/82  
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TELEPHONE 714/492-7700 Ext. 56223

November 15	2210	Commenced fuel load.
November 21	0045	Fuel load completed.
November 30	0630	Entered Mode 5.
November 30	2359	Unit is in Mode 5. Shutdown cooling is in service with LPSI 3P-016 running. Shutdown cooling is at 80 gpm.

REFUELING INFORMATION

DOCKET NO. 50-362  
UNIT SONGS - 3  
DATE 12/15/82  
COMPLETED BY L. Mayweather  
TELEPHONE 714/494-7700 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