NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
UNIT SONGS - 2
DATE October 11, 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: September 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	720	6,575	10,080
12.	Number Of Hours Reactor Was Critical	720	4,799.55	7,412.25
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	720	4,697.9	7,259.6
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	2,405,237	15,331,265	23,824,800
17.	Gross Electrical Energy Generated (MWH)	789,413.5	5,128,129.5	8,040,094.5
18.	Net Electrical Energy Generated (MWH)	751,545	4,849,032	7,624,677
19.	Unit Service Factor	100	71.45	72.02
20.	Unit Availability Factor	100	71.45	72.02
21.	Unit Capacity Factor (Using MDC Net)	97.55	68.92	70.69
22.	Unit Capacity Factor (Using DER Net)	97.55	68.92	70.69
23.	Unit Forced Outage Rate	0	4.25	4.09

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling, October 21, 1984, 3 1/2 month duration

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	NA	NA
INITIAL ELECTRICITY	NA	NA
COMMERCIAL OPERATION	NA	NA

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361

UNIT SONGS - 2

DATE October 11, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56264

MONTH September 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1105.83	17	1056.13
2	1061.38	18	1057.88
3	1062.79	19	1057.8[illegible]
4	1065.13	20	982.21
5	1062.50	21	1043.13
6	992.79	22	1062.33
7	1030.54	23	1059.71
8	993.71	24	1059.00
9	1060.38	25	1061.88
10	1058.42	26	1066.04
11	1056.38	27	1067.33
12	1056.17	28	1067.42
13	1056.96	29	1052.63
14	1061.29	30	1062.54
15	882.56	31	NA
16	951.50		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH SEPTEMBER 1984

DOCKET NO. 50-361
UNIT NAME SONGS - 2
DATE October 11, 1984
COMPLETED BY L. I. Mayweather
TELEPHONE (714) 492-7700
Ext. 56264

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	LER No.	System Code[4]	Component Code[4]	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] IEEE Std 803-1983

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361

UNIT SONGS - 2

DATE October 11, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700 Ext. 56264

Date/Time	Event
September 1, 0001	Unit is in Mode 1 at 100% reactor power. Turbine load is 1120 MWe.
September 6, 1654	Commenced power reduction due to Core Operating Limit Supervisory System (COLSS) being out of service.
September 6, 1802	COLSS out of service surveillance completed satisfactorily.
September 6, 1803	Reactor power at 80% and turbine load at 877 MWe gross.
September 7, 0001	Reactor power at 83% and turbine load at 915 MWe gross.
September 7, 0145	COLSS declared operable.
September 7, 0245	Commenced power increase to 100%.
September 7, 0500	Reactor power at 100%.
September 8, 0400	Commenced power reduction to 90% for performance of turbine stop and governor valve testing and heat treatment.
September 8, 1625	Increased reactor power to 100% following turbine stop and governor valve testing and heat treatment.
September 15, 0500	Commenced power reduction to 85% for performance of turbine stop and governor valve testing and heat treatment.
September 15, 0730	Reactor power at 88% and turbine load at 980 MWe gross.
September 15, 1530	Reactor power at 85% and turbine load at 925 MWe gross.
September 15, 2005	Commenced power reduction to 65% for Main Feedwater Pump Turbine (MFWPT) testing and Control Element Assembly (CEA) exercising.
September 15, 2135	Completed main turbine overspeed testing.
September 16, 0000	Reactor power at 65% and turbine load at 685 MWe gross.
September 16, 0510	Commenced power increase to 100%.
September 16, 1000	Reactor power at 100% and turbine load at 1108 MWe gross.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH (Continued)

Date/Time	Event
September 20, 1605	Condensed power reduction due to COLSS being out of service.
September 20, 1733	Reactor power at 80%.
September 20, 2135	COLSS returned to service.
September 20, 2248	Commenced turbine stop and governor valve testing.
September 21, 0420	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
September 21, 0535	Reactor power at 100%.
September 28, 2150	Commenced power redution to 90% for performance of turbine stop and governor valve testing.
September 29, 0340	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
September 30, 2359	Unit is in Mode 1 at 100% reactor power. Turbine load is 1115 MWe gross. Full power operations are planned.

REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE October 11, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56264

1. Scheduled date for next refueling shutdown.

   October 21, 1984

2. Scheduled date for restart following refueling.

   February 8, 1985

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

   Yes

   What will these be?

   Proposed Technical Specification changes have been submitted to the NRC for Shutdown Cooling System Modifications (Proposed Change Number (PCN 126), for the reload analysis, and for Steam Generator tube wall thinning criteria (PCN 141).

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.

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362
UNIT NAME SONGS - 3
DATE October 11, 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: September 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	720	4,391	4,391
12.	Number Of Hours Reactor Was Critical	720	3,090.82	3,090.82
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	720	2,832.97	2,832.97
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	2,405,823	8,930,347	8,930,347
17.	Gross Electrical Energy Generated (MWH)	801,505	2,984,643	2,984,643
18.	Net Electrical Energy Generated (MWH)	764,441	2,802,896	2,802,896
19.	Unit Service Factor	100	64.52	64.52
20.	Unit Availability Factor	100	64.52	64.52
21.	Unit Capacity Factor (Using MDC Net)	98.31	59.10	59.10
22.	Unit Capacity Factor (Using DER Net)	98.31	59.10	59.10
23.	Unit Forced Outage Rate	0	1.63	1.63

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

	Forecast	Achieved
INITIAL CRITICALITY	NA	NA
INITIAL ELECTRICITY	NA	NA
COMMERCIAL OPERATION	NA	NA

* 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 October 11, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700 Ext. 56264

MONTH September 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1084.63	17	1074.58
2	1085.58	18	1074.13
3	1084.17	19	1072.88
4	1083.58	20	1065.17
5	1086.88	21	1058.92
6	1085.17	22	725.46
7	1060.42	23	1025.58
8	1074.79	24	1064.00
9	1080.33	25	1068.96
10	1079.25	26	1065.04
11	1075.67	27	1075.21
12	1075.63	28	1068.00
13	1077.50	29	1078.29
14	1070.96	30	1072.42
15	1079.29	31	NA
16	1079.25		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH AUGUST 1984

DOCKET NO. 50-362
UNIT NAME SONGS - 3
DATE October 11, 1984
COMPLETED BY L. I. Mayweather
TELEPHONE (714) 492-7700
Ext. 56264

No.	Date	Type [1]	Duration (Hours)	Reason [2]	Method of Shutting Down Reactor [3]	LER No.	System Code [4]	Component Code [4]	Cause & Corrective Action to Prevent Recurrence
8	840922	S	0.0	B	5	NA	NA	NA	Power reduction for turbine stop and governor valve testing, Control Element Assembly exercising and other miscellaneous surveillance and maintenance items.

[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

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-362

UNIT SONGS - 3

DATE October 11, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
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Date/Time	Event
September 1, 0001	Unit is in Mode 1 at 95% power during performance of turbine stop and governor valve testing. Turbine load is 1060 MWe gross.
September 1, 0140	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
September 1, 0330	Reactor power at 100%.
September 7, 1900	Commenced power reduction for performance of turbine stop and governor valve testing.
September 7, 2200	Completed turbine stop and governor valve testing.
September 7, 2220	Commenced further power reduction due to COLSS being out of service.
September 7, 2235	Commenced power increase to 100% following recovery of COLSS.
September 8, 0333	Reactor power at 100%.
September 14, 2035	Commenced power reduction for performance of turbine stop and governor valve testing.
September 15, 0045	Unit at 100% power following completion of turbine stop and governor valve testing. Turbine load 1130 MWe gross.
September 15, 1305	Commenced power reduction due to COLSS being out of service. COLSS returned to service at 1313.
September 15, 1405	Reactor power at 100%.
September 20, 1750	Reduced reactor power to 98% due to defective hydraulic motor on High Pressure Turbine Governor Valve 3UV2200C.
September 21, 1135	Commenced power increase to 100% following replacement of hydraulic motor for 3UV2200C.
September 22, 0001	Reactor power at 100% and turbine load at 1119 MWe gross.
September 22, 0207	Commenced power reduction for turbine stop and governor valve testing and CEA exercising.
September 22, 0257	Reactor power at 65%.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH (Continued)

Date/Time	Event
September 23, 0700	Reactor power at 100% following completion of surveillance and maintenance items requiring reduced power.
September 26, 1800	Commenced power reduction for replacement of hydraulic relief valve for High Pressure Turbine Governor Valve 3UV2200C.
September 26, 2245	Reactor power increased to 100% following replacement of relief valve for 3UV2200C.
September 27, 0339	Commenced power reduction due to loss of COLSS.
September 27, 0343	COLSS returned to service and vamping up to full power.
September 27, 0730	Reactor power at 100% and turbine load at 1121 MWe gross.
September 28, 1815	Commenced power reduction for turbine stop and governor valve testing.
September 28, 2200	Commenced power increase to 100% following completion of turbine stop and governor valve testing.
September 28, 2330	Reactor power at 100% and turbine load at 1126 MWe gross.
September 30, 2359	Unit is in Mode 1 at 100% reactor power. Turbine load is 1115 MWe gross. Full power operations are planned.

REFUELING INFORMATION

DOCKET NO. 50-362

UNIT SONGS - 3

DATE October 11, 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

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