NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
UNIT SONGS - 2
DATE August 13, 1984
COMPLETED BY L. I. Mayweather
TELEPHONE (714) 492-7700
Ext. 56223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: July 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	744	5,111	8,616
12.	Number Of Hours Reactor Was Critical	150.02	3,379.5	5,992.2
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	131	3,285.82	5,847.52
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	377,677	10,691,317	19,184,852
17.	Gross Electrical Energy Generated (MWH)	120,323	3,605,251.5	6,517,216.5
18.	Net Electrical Energy Generated (MWH)	102,468	3,401,817	6,177,462
19.	Unit Service Factor	17.61	64.29	67.87
20.	Unit Availability Factor	17.61	64.29	67.87
21.	Unit Capacity Factor (Using MDC Net)	12.87	62.20	67.00
22.	Unit Capacity Factor (Using DER Net)	12.87	62.20	67.00
23.	Unit Forced Outage Rate	0	4.55	4.21

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
    Refueling, November 1984, 4 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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361

UNIT SONGS - 2

DATE August 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56223

MONTH July 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	7.88
11	0	27	265.98
12	0	28	1077.00
13	0	29	912.60
14	0	30	1085.00
15	0	31	1086.15
16	0		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY 1984

DOCKET NO. 50-361
UNIT NAME SONGS - 2
DATE August 13, 1984
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TELEPHONE (714) 492-7700
Ext. 56223

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
5	840620	S	613	B	4	NA	NA	NA	Continuation of scheduled outage. Outage extended for replacement of reactor coolant pump seals.

[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 August 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
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Date/Time	Event
July 1, 0001	Unit is in Mode 5 at 107°F. The reactor coolant system is drained to midloop. An outage is in progress to repair a primary to secondary leak in Steam Generator E-088.
July 9, 0055	Entered Mode 4.
July 10, 2208	Entered Mode 3.
July 11, 2251	Commenced cooldown to Mode 5 for replacement of reactor coolant pump seals.
July 12, 0604	Entered Mode 4.
July 12, 1925	Entered Mode 5.
July 22, 1708	Entered Mode 4 following reactor coolant pump seal replacement.
July 24, 0921	Entered Mode 3.
July 25, 1704	Entered Mode 2.
July 25, 1759	Reactor critical.
July 26, 1000	Entered Mode 1.
July 26, 1300	Synchronized generator and applied block load of 55 MWe gross. Commenced power increase.
July 27, 1915	Completed turbine stop and governor valve testing. Reactor power at 90%.
July 27, 2250	Reactor power at 100% and turbine load at 1130 MWe gross.
July 29, 0130	Reduced reactor power to 80% to perform heat treatment of the intake structure.
July 29, 1925	Reactor power at 100% and turbine load at 1139 MWe gross following heat treatment.
July 31, 2359	Unit is in Mode 1 at 100% reactor power. Turbine load is 1140 MWe gross. Full power operations are planned.

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REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE August 13, 1984

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1. Scheduled date for next refueling shutdown.

   November 1984

2. Scheduled date for restart following refueling.

   March 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 will be submitted to the NRC for Shutdown Cooling System Modifications (Proposed Change Number (PCN 126), for the reload analysis, for inclusion of heated junction thermocouples (PCN 128), 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 August 13, 1984
COMPLETED BY L. I. Mayweather
TELEPHONE (714) 492-7700
Ext. 56223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: July 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	2,927	2,927
12.	Number Of Hours Reactor Was Critical	304.7	1,824.69	1,824.69
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	287.92	1,592.5	1,592.5
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	638,154	4,735,759	4,735,759
17.	Gross Electrical Energy Generated (MWH)	266,226.5	1,635,313.5	1,635,313.5
18.	Net Electrical Energy Generated (MWH)	242,494	1,522,799	1,522,799.
19.	Unit Service Factor	38.70	54.41	54.41
20.	Unit Availability Factor	38.70	54.41	54.41
21.	Unit Capacity Factor (Using MDC Net)	30.18	48.17	48.17
22.	Unit Capacity Factor (Using DER Net)	30.18	48.17	48.17
23.	Unit Forced Outage Rate	0	1.04	1.04

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-362

UNIT SONGS - 3

DATE August 13, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56223

MONTH July 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	1095.52
2	0	18	1070.13
3	0	19	171.35
4	0	20	0
5	0	21	0
6	0	22	0
7	17.46	23	0
8	529.79	24	0
9	971.88	25	0
10	1072.33	26	0
11	649.31	27	0
12	760.48	28	0
13	976.06	29	0
14	934.42	30	0
15	1095.00	31	0
16	1102.75		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY 1984

DOCKET NO. 50-362
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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
5	840611	S	151.83	A	4	NA	NA	NA	Continuation of scheduled outage for replacement of reactor coolant pump seals.
6	840719	S	304.25	B	2	NA	AB	SG	Repair of primary to secondary leak in steam generator E-089.

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 August 13, 1984

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Date/Time	Event
July 1, 0001	Unit is in Mode 5 at 120°F. An outage is in progress to replace reactor coolant pump seals.
July 3, 1212	Entered Mode 4.
July 4, 2008	Entered Mode 3.
July 6, 1432	Entered Mode 2.
July 6, 1520	Reactor critical.
July 7, 0450	Entered Mode 1.
July 7, 0750	Synchronized generator and applied block load of 55 MWe gross.
July 8, 2137	Reactor power at 75% and holding to decrease high chloride levels in both steam generators.
July 9, 0640	Commence reactor power increase following chloride level reduction.
July 9, 1357	Reactor power at 100% and turbine load at 1140 MWe gross.
July 10, 2337	Reduced reactor power to 80% due to indication of a saltwater leak in Circulating Water Pump P-116.
July 11, 0130	Reduced reactor power to 50% to drain and repair P-116 for steam generator cleanup.
July 12, 0001	Reactor power at 77% and holding for further investigation of saltwater leak.
July 13, 1000	Raised reactor power to 100% and turbine load to 1127 MWe gross following helium leak testing and subsequent tube plugging of P-116 waterbox.

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH (Continued)

July 14, 1000	Reduced reactor power to 80% to perform a heat treatment and turbine stop and governor valve testing.
July 14, 2315	Reactor power at 100% and turbine load to 1148 MWe gross following heat treatment and turbine stop and governor valve testing.
July 18, 2018	Commenced unit shutdown to repair Steam Generator E-089 Reactor Coolant System to secondary system leakage.
July 19, 0745	Removed turbine from grid.
July 19, 0802	Entered Mode 2.
July 19, 0815	Entered Mode 3.
July 19, 2330	Entered Mode 4.
July 20, 1330	Entered Mode 5 and commenced E-089 outage.
July 31, 2359	Unit is in Mode 5 at 139°F. Steam Generator E-089 outage is in progress.

REFUELING INFORMATION

DOCKET NO. 50-362

UNIT SONGS - 3

DATE August 13, 1984

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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. 300

   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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