Document Control Desk

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: May 1994
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	744.00	3,623.00	94,560.00
12. Number Of Hours Reactor Was Critical	744.00	3,623.00	71,637.59
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	744.00	3,623.00	70,494.34
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,440,983.00	11,960,816.70	230,535,073.14
17. Gross Electrical Energy Generated (MWH)	833,037.00	4,090,995.50	78,178,783.50
18. Net Electrical Energy Generated (MWH)	793,275.00	3,898,326.00	74,153,024.88
19. Unit Service Factor	100.00%	100.00%	74.55%
20. Unit Availability Factor	100.00%	100.00%	74.55%
21. Unit Capacity Factor (Using MDC Net)	99.65%	100.56%	73.29%
22. Unit Capacity Factor (Using DER Net)	99.65%	100.56%	73.29%
23. Unit Forced Outage Rate	0.00%	0.00%	5.88%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): None
25. If Shutdown 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

Document Control Desk

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: May 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1079.04	16	1077.63
2	1079.25	17	1076.67
3	1078.58	18	1075.83
4	1077.08	19	1075.29
5	1075.29	20	1062.75
6	1072.08	21	1070.58
7	913.38	22	1078.79
8	1054.96	23	1077.54
9	1078.00	24	1077.29
10	1077.17	25	1076.92
11	1078.83	26	1076.75
12	1078.50	27	951.75
13	1078.21	28	1075.88
14	1077.04	29	1075.33
15	1077.88	30	1073.25
		31	1075.58

Document Control Desk

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: May 1994

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

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

There were no unit shutdowns or reductions in the Average Daily Power Level of more than 20% this reporting period.

[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 in the Average Daily Power Level of more than 20% from the previous day
6-Other (Explain)

[4]IEEE Std 805-1984

[5]IEEE Std 803A-1983

Document Control Desk

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

Date		Time	Event
May	01	0001	Unit is in Mode 1, 98% reactor power, 1130 MWe.
May	07	0750	Commenced lowering reactor power to 80% for circulating water system heat treatment.
		1020	Unit 2 reduced Reactor Power to 80%, 910 MWe for circulating water system heat treatment.
		2040	Commenced Unit 2 circulating water system heat treatment.
May	08	0120	Commenced raising reactor power to full power after completion of circulating water system heat treatment.
		0455	Unit at 98% reactor power, 1130 MWe.
May	20	2218	Commenced reactor power reduction to allow Steam Bypass Cooling System valves to shut during repair of Main Turbine valve 2UV2200D.
		2315	Reactor power reduced to 94%, 1050 MWe.
May 21	21	0432	Reactor power raised to 98%, 1132 MWe after Main Turbine Valve 2UV2200D Return to service.
May	27	0933	Control Element Assembly number 79 dropped during post maintenance testing. Breaker had tripped.
		0943	Commenced boration to RCS to reduce power to 68% by 1033 hours.
		0954	Performed COLSS Out Of Service surveillance. Departure from Nucleate Boiling Ration failed, Local Power Density passed. Reducing power to restore DNBR margin.
		1015	DNBR sat, reactor power at 78.5%
		1030	Reactor power at 68%
		1150	Reactor power stabilized at 55%. Holding for one hour than power will be raised at 5% per hour.
		2130	Unit at 98% reactor power, 1130 MWe.
May	31	2400	Unit is in Mode 1, 98% reactor power, 1126 MWe.

Document Control Desk

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: May 1994

1. Scheduled date for next refueling shutdown.

   Cycle 8 refueling outage is forecast for January 15, 1995.

2. Scheduled date for restart following refueling.

   Restart from Cycle 8 refueling outage is forecast for March 15, 1995.

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

   Yes

   What will these be?

   A. A proposed change to the Technical Specifications will be requested which will revise the minimum water level in the refueling cavity with only one train of shutdown cooling operable.

   B. A proposed change to the Technical Specifications and an exemption from 10 CFR 50 Appendix J will be requested to permit deferring the Integrated Leakrate Testing.

   C. A proposed change to the Technical Specifications will be requested to revise the allowed Linear Heat Rate from 13.9 to 13.0 kW/ft.

   D. A proposed change to the Final Safety Analysis will be requested to remove the diversity requirement of the pressurizer pressure transmitters providing input to the shutdown cooling open permissive interlock.

   E. A proposed change to the Technical Specifications (PCN 431), revising the automatic reset of the low pressurizer pressure bypass, will be revised to simplify the request. requested which will revise the minimum water level in the refueling cavity with only one train of shutdown cooling operable.

4. Scheduled date for submitting proposed licensing action and supporting information.

1. Refueling Cavity Water Level	Submittal Forecast July 31, 1994
2. Integrated Leakrate Testing	Submittal Forecast July 31, 1994
3. Linear Heat Rate	Submittal Forecast Aug. 31, 1994
4. Pressure Instrument Diversity	Submittal Forecast July 31, 1994
5. Low Pressurizer Pressure Bypass	Revision Forecast Aug. 31, 1994

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.

   None.

Document Control Desk

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: May 1994

6. The number of fuel assemblies.

   a) In the core. 217

   b) In the spent fuel storage pool. 662 Total Fuel Assemblies
   592 Unit 2 Spent Fuel Assemblies
   0 Unit 2 New Fuel Assemblies
   70 Unit 1 Spent Fuel Assemblies

7. Licensed spent fuel storage capacity. 1542

   Intended change in spent fuel storage capacity. None

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

   Approximately 2005 (full off-load capability)

Document Control Desk

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: May 1994
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	744.00	3,623.00	89,111.00
12. Number Of Hours Reactor Was Critical	744.00	3,623.00	69,549.45
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	744.00	3,605.09	67,901.98
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,440,821.97	11,634,584.71	218,306,374.43
17. Gross Electrical Energy Generated (MWH)	831,374.00	3,983,245.00	74,126,652.00
18. Net Electrical Energy Generated (MWH)	786,897.00	3,772,340.00	70,035,378.94
19. Unit Service Factor	100.00%	99.51%	76.20%
20. Unit Availability Factor	100.00%	99.51%	76.20%
21. Unit Capacity Factor (Using MDC Net)	97.93%	96.41%	72.77%
22. Unit Capacity Factor (Using DER Net)	97.93%	96.41%	72.77%
23. Unit Forced Outage Rate	0.00%	0.00%	6.54%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): None

25. If Shutdown 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

Document Control Desk

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: May 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1052.17	16	1065.83
2	1051.46	17	1064.58
3	1050.96	18	1063.63
4	1057.38	19	1063.00
5	1066.17	20	1063.25
6	1067.46	21	1065.21
7	1065.46	22	1062.04
8	1065.75	23	1061.83
9	1065.21	24	1062.67
10	1064.33	25	1063.21
11	1065.17	26	1063.50
12	1066.88	27	1066.54
13	1065.04	28	980.58
14	1053.96	29	984.54
15	1065.46	30	1066.54
		31	1067.58

Document Control Desk

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: May 1994

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

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

There were no unit shutdowns or reductions in the Average Daily Power Level of more than 20% this reporting period.

[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 in the Average Daily Power Level of more than 20% from the previous day
6-Other (Explain)

[4]IEEE Std 805-1984

[5]IEEE Std 803A-1983

Document Control Desk

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

Date		Time	Event
May	01	0001	Unit is in Mode 1, 95.5% reactor power, 1102 MWe.
May	02	1535	Spent Fuel Pool heatup rate test completed. Heat up rate 0.25 F/HR.
May	04	1920	Completed respan of SBCS and installation of coefficients.
		2109	Reactor power raised to 97.4%, 1120 MWe. SBCS pressure at 850 psi.
May	28	1500	Commenced lowering reactor power to 80% for circulating water system heat treatment.
May	29	0001	Unit 3 reduced Reactor Power to 80%, 907 MWe for circulating water system heat treatment.
		0800	Commenced raising reactor power to full power after completion of circulating water system heat treatment.
		1103	Unit at 97% reactor power, 1115 MWe.
May	31	2400	Unit is in Mode 1, 97% reactor power, 1116 MWe.

Document Control Desk

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: May 1994

1. Scheduled date for next refueling shutdown.

   Cycle 8 refueling outage is forecast for June 9, 1995.

2. Scheduled date for restart following refueling.

   Restart from Cycle 8 refueling outage is forecast for August 18, 1995.

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

   Unknown at this time for Cycle 8 refueling.

   What will these be?

   NA

4. Scheduled date for submitting proposed licensing action and supporting information.

   NA

Document Control Desk

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE:
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: May 1994

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.

   None.

6. The number of fuel assemblies.

   a) In the core. 217

   b) In the spent fuel storage pool. 710 Total Fuel Assemblies
   592 Unit 3 Spent Fuel Assemblies
   0 Unit 3 New Fuel Assemblies
   118 Unit 1 Spent Fuel Assemblies

7. Licensed spent fuel storage capacity. 1542

   Intended change in spent fuel storage capacity. None

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

   Approximately 2003 (full off-load capability).

Revised Pages being submitted

for the

February, March and April

Monthly Operating Reports