NRC MONTHLY OPERATING REPORT

DOCKET NO:	50-361
UNIT NAME:	SONGS - 2
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

OPERATING STATUS

1.2.3.4.5.6.7.8.	Unit Name: San Onofre Nuclear Generatin Reporting Period: <u>Apr</u> Licensed Thermal Power (MWt): Nameplate Rating (Gross MWe): Design Electrical Rating (Net MWe): Maximum Dependable Capacity (Gross MWe): Maximum Dependable Capacity (Net MWe): If Changes Occur In Capacity Ratings (It Circo Last Perert Circo Persons:	g Station, U 11 1994 3390 1127 1070 1127 1070 ems Number 3	nit 2 Through 7)	
9.	Power Level To Which Restricted, If Any	(Net MWe):	NA	of the spectrum statistical statistics and the spectrum states
10.	Reasons For Restrictions, If Any:	A	NA	na an ann an an ann an ann an ann ann a
		This Month	Yrto-Date	Cumulative
11.	Hours In Reporting Period	719.00	2,879.00	93,816.00
12.	Number Of Hours Reactor Was Critical	719.00	2,879.00	70,893.59
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	719.00	2,879.00	69,750.34
15.	Unit Reserve Shutdown Hours	0.00	0.00	0,00
16.	Gross Thermal Energy Generated (MWH) 2	,440,983.00	9,519,833.70	228,094,090.14
17.	Gross Electrical Energy Generated (MWH)	816,833.00	3,257,958.50	77,345,746.50
18,	Net Electrical Energy Generated (MWH) _	777,113.00	3,104,867.00	73,359,565.88
19.	Unit Service Factor	100.00%	100.009	74.35%
20.	Unit Availability Factor	100.00%	100,009	74.35%
21.	Unit Capacity Factor (Using MDC Net)	101.01%	100.791	73.08%
22.	Unit Capacity Factor (Using DER Net)	101.01%	100.791	73.08%
23.	Unit Forced Outage Rate	0.00%	0.009	5.948
24.	Shutdowns Scheduled Over Next 6 Months None	(Type, Date,	and Duration	of Each):
25.	If Shutdown At End Of Report Period, Es	timated Date	of Startup: _	NA
26.	Units In Test Status (Prior To Commerci	al Operation): Forecast	Achieved
	TRITOTAL ODITIONI TOV		ND	ND

2

INTIAL CRITICALITY	14.83	NA
INITIAL ELECTRICITY	NA	NA
COMMERCIAL OPERATION	NA	NA

AVERAGE DAILY UNIT POWER LEVEL

		DOCKET NO: 50-361 UNIT NAME: SONGS -	2
		COMPLETED BY: M. A. R. TELEPHONE: (714) 3	obinson 68-9418
IONTH	1: <u>April 1994</u>		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY AVERAGE DAILY POWER L (MWe-Net)	EVEL
1	1084.38	161080.79	Name of Street Street
2	1084.42	171082.54	
3	1130.96	18 1082.92	1911-1911-1911-1911-1911-1911-1911-191
4	1085.63	19 1080.38	
5	1084.58	20 1082.21	
6	1083.58	21 1080.50	
7	1083.71	22 1072.04	
8	1081.96	23 1060.25	
9	1079.42	24 1081.58	
10	1077.17	25 1084.71	
11	1082.46	26 1083.83	
12	1084.08	27 1080.67	nisterierie
13	1080.96	28 1079.88	manimenal
1.4	1078.17	291079.08	(All of the second s
15	1080.75	30 1033.25	

Sec. ma	Conceptions.	3	5 mil	and the	and in	S	Then.	in la
DOCI	1111211	See. 1	00	225.	1.0	200	25	35.

					UNIT SHUT REPORT M	CDOWNS AND	POWER REDUCTIO	NS DOCKET NO: UNIT NAME: DATE: COMPLETED BY: TELEPHONE:	50-361 SONGS - 2 M. A. Robinson (714) 368-9418	
No.	Date	Type	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Com Code ⁴ C	ca ponent Jode ^s Pi	ause & Corrective Action to revent Recurrence	

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

		والمراجع ومحادثة والمراجع والمحادي والمحاد والمحاد والمحاد والمحاد	and the second
¹ F-Forced	² Reason:	³ Method:	4IEEE Std 805-1984
S-Scheduled	A-Equipment Failure (Explain)	1-Manual	
	B-Maintenance or Test	2-Manual Scram.	⁵ IEEE Std 803A-1983
	C-Refueling	3-Automatic Scram.	
	D-Regulatory Restriction	4-Continuation from	
	E-Operator Training & License Examination	Previous Month	
	F-Administrative	5-Reduction in the Average	
	G-Operational Error (Explain)	Daily Power Level of more	
	H-Other (Explain)	than 20% from the previous	day
		6-Other (Explain)	

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

			DOCKET NO: 50-361 UNIT NAME: SONCS - 2 DATE: COMPLETED BY: M. A. Robinson TELEPHONE: (714) 368-9418
Date		Time	Event
April	01	0001	Unit is in Mode 1, 98% reactor power, 1134 MWe.
April	03	0100	All clocks adjusted ahead one hour to conform to Pacific Daylight Saving Time.
April	23	1259	Control Element Assembly number 20 dropped during monthly Control Element Assembly testing.
		1310	Commenced lowering reactor power to 78%.
		1312	Commenced withdrawing Control Element Assembly number 20.
		1540	Commenced raising reactor power to full load after completing monthly Control Element Assembly testing.
		1923	Unit at 98% reactor power, 1128 MWe.
April	30	2400	Unit is in Mode 1, 98% reactor power, 1130 MWe.

REFUELING INFORMATION

DOCKET NO: 50 UNIT NAME: SO DATE: ______ COMPLETED BY: M. TELEPHONE: (7

SO	NGS	-	2
м.	Α.	R	obinson
(7)	14)	30	68-9418

MONTH: April 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 31, 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

 Scheduled date for submitting proposed licensing action and supporting information.

NA

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.

REFUELING INFORMATION

DOCKET NO:	50-361
UNIT NAME:	SONGS - 2
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

MONTH: April 1994

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool.

662	Total	F	uel	Assemb	lies
592	Unit	2	Spen	t Fuel	Assemblies
0	Unit	2	New	Fuel A	ssemblies
70	Unit	1	Spen	t 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)

NRC MONTHLY OPERATING REPORT

DOCKET NO:	50-362
UNIT NAME:	SONGS - 3
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

OPERATING STATUS

1. 2. 3. 4. 5.	Unit Name: San Onofre Nuclear Generating Reporting Period:Apr Licensed Thermal Power (MWt): Nameplate Rating (Gross MWe): Design Electrical Rating (Net MWe):	g Station, U il 1994 3390 1127 1080	nit 3	
6.	Maximum Dependable Capacity (Gross MWe): Maximum Dependable Capacity (Net MWe):	1127		
8.	If Changes Occur In Capacity Ratings (It Since Last Report, Give Reasons:	ems Number 3	Through 7) NA	
10.	Reasons For Restrictions, If Any:	(Net Mwe):	NA NA	en e seu anna an anna an an an an an an an an an
		This Month	Yrto-Date	Cumulative
11. 12.	Hours In Reporting Period Number Of Hours Reactor Was Critical	719.00	2,879.00	88,367.00
13.	Reactor Reserve Snutdown Hours Hours Generator On-Line	701.09	2,8,.09	67,157.98
16.	Gross Thermal Energy Generated (MWH) 2	,278,100.50	9,193,762.75	215,865,552.46
17.	Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH)	776,273.50 733,833.00	3,151,658.00	73,295,065.00
19.	Unit Service Factor Unit Availability Factor	97.518	<u>99,38%</u> 99,38%	76.00%
21.	Unit Capacity Factor (Using MDC Net)	94.50%	96.01%	72.56%
23.	Unit Capacity Factor (Using DER Het) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months	2.49%	0.62%	6.63%
241	None	(TADE, Date)	and puracion	or bach):

25.If Shutdown At End Of Report Period, Estimated Date of Startup:NA26.Units In Test Status (Prior To Commercial Operation):ForecastAchieved

INITIAL CRITICALITY	NA	NA
INITIAL ELECTRICITY	NA	NA
COMMERCIAL OPERATION	NA	NA

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO:	50-362
UNIT NAME:	SONGS - 3
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

MONTH	:April 1994		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVEF
1	1054.00	16	
2	159,71	17	Name and a
3	993.46	18	1.000
4	1055.42	19	
5	1059.71	20	
6	1052.50	21	
7	1056.50	22	-
8	1054,92	23	-
9	1055.21	24	
10	1053.63	25	-
11	1054.63	26	-
12	1056.92	27	
13	1058.42	28	
14	1055.50	29	
15	1054.54	30	-

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	í
16	964.46	
17	999.42	
18	1063.00	
19	1062.13	
20	1066.42	
21	1061.79	
22	1062.25	
23	1061.33	
24	1064.46	
25	1067.75	
26	1068.00	
27	1065.38	
28	1058,29	
29	1031.79	
30	1004.88	

				UNIT SHU REPORT	UTDOWNS MONTH:	AND POWER	REDUCTIONS	DOCKET NO: UNIT NAME: DATE: COMPLETED BY:	50-362 SONGS - 3 M. A. Robinson (714) 368-9418 Corrective tion to t Recurrence
No. Date	e Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause & Act Prevent	
81 4/02/9	94 S (see note)	17.91	В	5	N/A	IT	RTV	Power re S31301MF	duction for root valve 040 maintenance.

Note: Regulatory Guide 1.16 states "The term 'forced outage' as used in this guide and as normally defined in the electric power industry means the occurrence of a component failure or other condition which requires that the unit be removed from service for corrective action immediately or up to and including the next weekend." Although the Unit was removed from service the next weekend, three days after root valve S31301MR040 failed, the Unit could have remained operating and was removed from service to repair the root valve to ensure optimal plant performance. Therefore, since the Unit was not required to be removed from service, the outage was classified as Scheduled.

F-Forced	² Reason:	³ Method:	*IEEE Std 805-1984	
S-Scheduled	A-Equipment Failure (Explain) B-Maintenance or Test	1-Manual 2-Manual Scram.	SIEEE Std 803A-1983	
	C-Refueling D-Regulatory Restriction E-Operator Training & License Examination F-Administrative G-Operational Error (Explain) H-Other (Explain)	3-Automatic Scram. 4-Continuation from Previous Month 5-Reduction in the Ave Daily Power Level of than 20% from the pro 6-Other (Explain)	rage more evious day	

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO:	50-362
UNIT NAME:	SONGS - 3
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

Date		Time	Event
April	01	0001	Unit is in Mode 1, 97.6% reactor power, 1122 MWe.
		2100	Commenced lowering reactor power to remove main turbine from the grid to repair main turbine instrument root valve S31301MR040.
April	02	0435	Main turbine manually tripped at 110 MWe.
		1702	Commenced roll-up of main turbine after completion of instrument root valve repair.
		1759	Synchronized the main turbine to the grid and applied block load. Commenced raising reactor power to full load.
April	03	0100	All clocks adjusted ahead one hour to conform to Pacific Daylight Saving Time.
		1333	Unit at 95.2% reactor power, 1095 MWe.
April	16	1400	Commenced lowering reactor power to 80% for circulating water system heat treatment.
April	17	0001	Unit at 80% reactor power, 880 MWe.
		0545	Commenced raising reactor power to full power after completion of circulating water system heat treatment.
April	18	0001	Unit at 95% reactor power, 1100 MWe.
April	29	2135	Lowering main turbine power for High Pressure Turbine stop and governor valve testing.
April	30	0150	Returned main turbine to full power after completion of High Pressure Turbine stop and governor valve testing.
April	30	2400	Unit is in Mode 1, 95% reactor power, 1102 MWe.

REFUELING INFORMATION

DOCKET NO:	50-362
UNIT NAME:	SONGS - 3
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE :	(714) 368-9418

MONTH: April 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

 Scheduled date for submitting proposed licensing action and supporting information.

NA

REFUELING INFORMATION

DOCKET NO:	50-362
UNIT NAME:	SONGS - 3
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

MONTH: April 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	FI	uel i	Assem	bl	ies
592	Unit	3 ;	Spen	t Fue	1	Assemblies
0	Unit	3 1	New	Fuel	As	semblies
118	Unit	1 1	Spen	t Fue	1	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).