Southern California Edison Company 23 PARKER STREET IRVINE CALIFORNIA 92718 April 12, 1994 WALTER C MARSH TELEPHONE MANAGER OF NUCLEAR REQULATORY AFFAIRS (714) 454 4403 U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555 Gentlemen: Docket Nos. 50-361 and 50-362 Subject: Monthly Operating Reports for March 1994 San Onofre Nuclear Generating Station, Units 2 and 3 Technical Specification 6.9.1.10 of Facility Operating Licenses NPF-10 and NPF-15 for the San Onofre Nuclear Generating Station, Units 2 and 3, respectively, requires SCE to provide a Monthly Operating Report for each Unit, which includes: routine operating statistics and shutdown experience; all challenges to safety valves; any changes to the Offsite Dose Calculation Manual (ODCM); and any major changes to the radioactive waste treatment system. All covered activities are reported monthly, except for ODCM changes, which are reported within 90 days from the time the changes were made effective. This letter transmits the March 1994 Monthly Operating Reports for Units 2 and 3, respectively. There were no challenges to safety valves, and no major changes to the Units 2 and 3 radioactive waste treatment systems during the reporting period. If you require any additional information, please let me know. Sincerely, Hatter C. March Enclosures L. J. Callan, Regional Administrator, NRC Region IV K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC Region IV M. B. Fields, NRC Project Manager, Units 2 and 3 J. A. Sloan, Senior NRC Resident Inspector, San Onofre Units 1, 2 & 3 9404180342 940331 PDR ADOCK 05000361

# NRC MONTHLY OPERATING REPORT

	DOCKET NO: UNIT NAME:	50-361 SONGS - 2	
	DATE: COMPLETED BY: TELEPHONE:	M. A. Robin (714) 368-9	80n 418
	OPERATING STATUS		
1.	Unit Name: San Onofre Nuclear Generating Station, Un	it 2	
2.	Reporting Period: March 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	Thursday 7.	
8.	If Changes Occur In Capacity Ratings (Items Number 3	NA NA	
	Since Last Report, Give Reasons: Power Level To Which Restricted, If Any (Net MWe):	NA NA	
9.	Reasons For Restrictions, If Any:	NA	
12. 13. 14. 15. 16.		2,160.00 0.00 2,160.00 0.00 7,078,850.70 2,441,125.50	70,174.59 0.00 69,031.34 0.00 225,653,107.14 76,528,913.50
18.	Net Electrical Energy Generated (MWH) 795,016,00	2,327,754.00	72,582,452.88
19.	Unit Service Factor 100.00%	100.00%	
20.	Unit Availability Factor 100.00%	100.00%	
21.	Unit Capacity Factor (Using MDC Net) 99.87%	100.72%	
22.	Unit Capacity Factor (Using DER Net) 99.87%	100.72%	
23.	Unit Forced Outage Rate 0.00%	0.00%	
24.	Shutdowns Scheduled Over Next 6 Months (Type, Date, None		or Each);
25.	If Shutdown At End Of Report Period, Estimated Date		NA 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 NAME:	songs - 2
DATE:	
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

MONT	H: March 1994		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1074.46	16	1078.83
2	1082.13	17	1078.50
3	1081,83	18	1078.17
4	1080.88	19	1077.17
5	1071.50	20	1076.63
6	1078.04	21	1076.00
7	1077.25	22	1076.21
8	1077.13	23	1076.29
9	1078.29	24	1076.25
10	1078.50	25	1051.00
11	1080.83	26	809,83
12	1077.33	27	1039.83
13	1084.21	28	1085.13
14	1084.96	29	1085.83
15	1082.08	-30	1084.96
		31	1085.63

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361

UNIT NAME: SONGS - 2

REPORT MONTH: March 1994

DATE:

COMPLETED BY: M. A. Robinson

TELEPHONE: (714) 368-9418

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor's	LER No.	System Code'	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
84	03/26/94	S	N/A	В	5	N/A	KE	P	Power reduction for circulating water pump 2MP118 maintenance.

F-Forced S-Scheduled 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)

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)

\*IEEE Std 805-1984

SIEEE Std 803A-1983

### SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

			DOCKET NO: 50-361 UNIT NAME: SONGS - 2
			COMPLETED BY: M. A. Robinson TELEPHONE: (714) 368-9418
Date		Time	Event
March	01	0001	Unit is in Mode 1, 98% reactor power, 1130 MWe.
March	25	2010	Commenced lowering reactor power to 80% for circulating water system heat treatment
		2300	Unit is at 80% reactor power, 885 MWe.
March	26	1020	Completed circulating water system heat treatment.
		1310	Commenced lowering reactor power to 75% to remove circulating water pump 2MP118 from service for electrical maintenance.
		1340	Unit is at 75% reactor power.
March	27	0010	Commenced raising reactor power to full power after completion of circulating water pump 2MP118 electrical maintenance.
		0810	Unit is at 98% reactor power, 1135 MWe.
March	31	2400	Unit is in Mode 1, 98% reactor power, 1140 MWe.

#### REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE:

COMPLETED BY: M. A. Robinson
TELEPHONE: (714) 368-9418

MONTH: March 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
COMPLETED BY:	M. A. Robinson
TELEPHONE:	(714) 368-9418

MONTH: March 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)

## NRC MONTHLY OPERATING REPORT

		DOCKET NO: UNIT NAME: DATE:	SONGS - 3	
	СОМ	PLETED BY:	M. A. Robin (714) 368-9	son 418
	OPERATING STATUS			
		Street Street		
1.	Unit Name: San Onofre Nuclear Generating S	tation, Ur	11E 3	
2.	Reporting Period: March	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 Since Last Report, Give Reasons:	Number 3	Through 7) NA	
9.	Power Level To Which Restricted, If Any (Ne	t MWe):	NA	
10.	Reasons For Restrictions, If Any:		NA	
***	the state of the s			
	Th	is Month	Yrto-Date	Cumulative
11.	Hours In Reporting Period	744.00	2,160.00	87,648.00
12.	Number Of Hours Reactor Was Critical	744.00	2,160.00	68,086.45
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	744.00	2,160.00	66,456.89
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.		3,396.03		213,587,451.96
17.		0,848.00	2,375,384.50	72,518,791.50
18.		6,888.00	2,251,426.00	68,514,464.94
19.	Unit Service Factor	100.00%	100.00%	
20.	Unit Availability Factor	100.00%	100.00%	
	Unit Capacity Factor (Using MDC Net)	99,17%	96.51%	
21.	Unit Capacity Factor (Using DER Net)	99.17%	96.51%	
22.	Unit Capacity Factor (Using DER Net)	0.00%	0.00%	
23.	Unit Forced Outage Rate	Dato	and Duration	
24.	Shutdowns Scheduled Over Next 6 Months (T)	pe, Date,	and Duracion	OI Eduliyi
25.	If Shutdown At End Of Report Period, Estin	nated Date	of Startup: _	NA NA
26.	Units In Test Status (Prior To Commercial	Operation	): Forecast	Achieved
	INITIAL CRITICALITY		NA	NA
	INITIAL ELECTRICITY		NA	NA
	INITIAL ELECTRICITI		14.67	1415

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET N	Ot	50-362
UNIT NAM	E :	songs - 3
DAT	E:	
COMPLETED B	Y :	M. A. Robinson
TELEPHON	E:	(714) 368-9418

DAY /	VERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1 .	1069.13	16	1071.04
2 .	1076.13	17	1064.67
3	1075.63	18	1072.58
4	1065.63	19	1054.58
5	1059.75	20	1072.79
6	1072.08	21	1071.25
7	1073.33	22	1071.67
8	1074.54	23	1057.04
9	1074.50	24	1075.54
10	1074.50	25	1072.75
11	1073.42	26	1070.92
12	1070.33	27	1073.58
13	1069.79	28	1076.17
14	1074.88	29	1074.88
15	1072.96	30	1073.83
		31	1073.79

Type

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-362

UNIT NAME: SONGS - 3

DATE:

COMPLETED BY: M. A. Robinson

TELEPHONE: (714) 368-9418

Method of

Shutting Down Reactor3

LER No.

REPORT MONTH:

Component System Code Code'

March 1994

Cause & Corrective Action to Prevent Recurrence

'IEEE Std 805-1984

\*IEEE Std 803A-1983

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

F-Forced S-Scheduled

No.

Date

Reason:

Duration

(Hours) 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)

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)

## 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	
March	01	0001	Unit is in Mode 1, 97.5% reactor power, 1123 MWe.	
March	31	2400	Unit is in Mode 1, 98% reactor power, 1124 MWe.	

### REFUELING INFORMATION

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

MONTH: March 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

#### REFUELING INFORMATION

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

MONTH: March 1994

5. Improtant licensing considerations associated with refueling, e.g. new or di. ent fuel design or supplier, unreviewed design or performance analysis meth. , 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).