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 50-362 San Onofre Nuclear Station, Unit 3, Southern Californ 05000362
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for June 1985 for San Onofre Units 2
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July 14, 1989

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Docket Nos. 50-361/50-362
Monthly Operating Reports for June 1989
San Onofre Nuclear Generating Station, Units 2 and 3

Enclosed are the Monthly Operating Reports as required by Section 6.9.1.10 of Appendix A, Technical Specifications to Facility Operating Licenses NPF-10 and NPF-15 for San Onofre Nuclear Generating Station, Units 2 and 3, respectively.

Please contact us if we can be of further assistance.

Sincerely,

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)
F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)
Institute of Nuclear Power Operations (INPO)

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NRC MONTHLY OPERATING REPORT

DOCKET NO:	50-361
UNIT NAME:	SONGS - 2
DATE:	July 14, 1989
COMPLETED BY:	E. R. Siacor
TELEPHONE:	(714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: June 1989
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	720.00	4,343.00	51,456.00
12. Number Of Hours Reactor Was Critical	570.05	3,032.82	36,872.81
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	557.17	3,002.93	36,187.95
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	1,828,540.37	9,909,821.42	117,560,809.05
17. Gross Electrical Energy Generated (MWH)	615,836.00	3,361,577.50	39,795,750.50
18. Net Electrical Energy Generated (MWH)	581,309.00	3,178,190.00	37,699,677.35
19. Unit Service Factor	77.38%	69.14%	70.33%
20. Unit Availability Factor	77.38%	69.14%	70.33%
21. Unit Capacity Factor (Using MDC Net)	75.46%	68.39%	68.47%
22. Unit Capacity Factor (Using DER Net)	75.46%	68.39%	68.47%
23. Unit Forced Outage Rate	22.62%	30.86%	6.72%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
Cycle 5 refueling outage scheduled to commence on September 8, 1989.			

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

mor.jun/2

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: June 1989

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0.00</u>
2	<u>0.00</u>
3	<u>0 00</u>
4	<u>0 00</u>
5	<u>0 00</u>
6	<u>0.00</u>
7	<u>0.00</u>
8	<u>627.58</u>
9	<u>1049.63</u>
10	<u>1104.33</u>
11	<u>1106.96</u>
12	<u>1106.79</u>
13	<u>1102.17</u>
14	<u>1068.42</u>
15	<u>1063.79</u>
16	<u>1062.42</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1088.79</u>
18	<u>1105.04</u>
19	<u>1103.92</u>
20	<u>1111.13</u>
21	<u>1108.33</u>
22	<u>1103.33</u>
23	<u>1069.36</u>
24	<u>910.58</u>
25	<u>992.29</u>
26	<u>1098.83</u>
27	<u>1112.42</u>
28	<u>1114.04</u>
29	<u>1112.08</u>
30	<u>1097.54</u>
31	<u>NA</u>

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: JUNE 1989

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

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
49	890513	F	162.83	A	4	NA	AB	SG	Reactor manually tripped from 100% power to investigate and repair cause of increased primary to secondary leakage in SG E088. Cause was due to cracks in the welds of 3 welded tube plugs. The leaking plugs were replaced with new plugs.

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuation from
Previous Month
5-Reduction of 20%
or greater in the
past 24 hours
6-Other (Explain)

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
June 1	0001	Unit is in Mode 5. Steam Generator E088 tube leak repairs in progress.
	1343	Entered Mode 4 following completion of E088 tube leak repairs.
June 3	2012	Entered Mode 3.
June 4	1915	Commenced cooldown to Mode 4 due to Main Steam Isolation Valve 2HV-8205 packing leak.
	2307	Entered Mode 4.
June 5	2100	Commenced RCS heatup following completion of repairs to 2HV-8205.
	2200	Entered Mode 3.
June 7	0459	Entered Mode 2.
	0557	Reactor made critical.
	1205	Entered Mode 1.
	1850	Unit synchronized to the grid. Reactor at 18% power.
	2100	Commenced reactor power increase to 100%.
June 9	2115	Reactor at 100% power.

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
June 23	0902	Condenser water box differential pressure increased. Reactor power decreased to 85% to allow bumping circulating water pumps.
	1305	Reactor power increased to 100% following bumping the circulating water pumps to stabilize condenser water box differential pressure.
June 24	0915	Reactor power decreased to 85% for bumping the circulating water pumps.
	1235	Commenced reactor power decreased to 75% to perform condenser water box cleaning.
	2330	Reactor at 75% power.
June 25	0521	Commenced reactor power increase following completion of condenser water box cleaning.
June 27	1530	Reactor at 100% power.
June 30	2130	Commenced reactor power decrease to 85% for bumping the circulating water pumps.
	2325	Reactor at 85% power.
	2400	Unit is in Mode 1 at 85% reactor power. Turbine load at 950 MWe gross.

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REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: June 1989

1. Scheduled date for next refueling shutdown.
September 8, 1989.
2. Scheduled date for restart following refueling.
November 3, 1989.
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Not yet specifically determined. Under evaluation.
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.
 - a) As a result of the extended fuel cycle, a change to Technical Specification (TS) 3.2.1, "Linear Heat Rate", may be needed in order to compensate for a higher end-of-life fuel pin fission gas pressure. However, this change is not required for return to service. This change will only be necessary if the "Fuel Rod Maximum Allowable Gas Pressure" Topical Report (CEN-372-P), which was submitted to the NRC by the Combustion Engineering Owner's Group, is not approved on the SONGS 2 docket at the time that the pre-determined burnup is achieved.

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REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: June 1989

- b) An amendment to TS 3.1.3.4 is being prepared to revise CEA drop time. This change, which incorporates the use of an arithmetic average and maximum individual CEA drop times, will provide additional margin between the measured values and the TS limits. This change, however, is not required for return to service but is desired for startup testing during return to service.
6. The number of fuel assemblies.
- a) In the core. 217
- b) In the spent fuel storage pool. 446 (268 Unit 2 Spent Fuel Assemblies, 70 Unit 1 Spent Fuel Assemblies, and 108 Unit 2 New Fuel Assemblies)
7. Licensed spent fuel storage capacity. 800
- Intended change in spent fuel storage capacity. 1542, forecasted to occur during Cycle 5 (1990)
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.
- Approximately 1995 (refueling only)
- Approximately 1993 (full off load capability)

mor.jun/8

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: June 1989
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	<u>720.00</u>	<u>4,343.00</u>	<u>46,007.00</u>
12. Number Of Hours Reactor Was Critical	<u>707.57</u>	<u>4,033.86</u>	<u>33,712.60</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>707.55</u>	<u>4,016.62</u>	<u>32,606.81</u>
15. Unit Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,252,528.92</u>	<u>13,271,463.13</u>	<u>101,800,243.48</u>
17. Gross Electrical Energy Generated (MWH)	<u>757,377.00</u>	<u>4,536,951.50</u>	<u>34,505,039.00</u>
18. Net Electrical Energy Generated (MWH)	<u>718,725.00</u>	<u>4,304,440.00</u>	<u>32,505,912.20</u>
19. Unit Service Factor	<u>98.27%</u>	<u>92.48%</u>	<u>70.87%</u>
20. Unit Availability Factor	<u>98.27%</u>	<u>92.48%</u>	<u>70.87%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>92.43%</u>	<u>91.77%</u>	<u>65.42%</u>
22. Unit Capacity Factor (Using DER Net)	<u>92.43%</u>	<u>91.77%</u>	<u>65.42%</u>
23. Unit Forced Outage Rate	<u>1.73%</u>	<u>7.52%</u>	<u>8.06%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>NA</u>		

25. If Shut Down At End Of Report Period, Estimated Date of Startup: July 9, 1989
 26. Units In Test Status (Prior To Commercial Operation):
- | | Forecast | Achieved |
|----------------------|-----------|-----------|
| INITIAL CRITICALITY | <u>NA</u> | <u>NA</u> |
| INITIAL ELECTRICITY | <u>NA</u> | <u>NA</u> |
| COMMERCIAL OPERATION | <u>NA</u> | <u>NA</u> |

mor.jun/9

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: June 1989

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1092.58</u>
2	<u>1090.17</u>
3	<u>1075.29</u>
4	<u>1073.42</u>
5	<u>1089.29</u>
6	<u>1039.96</u>
7	<u>1088.04</u>
8	<u>1095.71</u>
9	<u>1090.42</u>
10	<u>1096.75</u>
11	<u>1098.92</u>
12	<u>1098.17</u>
13	<u>1095.96</u>
14	<u>1095.42</u>
15	<u>1096.08</u>
16	<u>1091.17</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1094.33</u>
18	<u>1095.17</u>
19	<u>1096.17</u>
20	<u>1098.25</u>
21	<u>1093.50</u>
22	<u>1090.00</u>
23	<u>1057.33</u>
24	<u>787.58</u>
25	<u>761.42</u>
26	<u>763.63</u>
27	<u>773.50</u>
28	<u>773.21</u>
29	<u>779.29</u>
30	<u>276.17</u>
31	<u>NA</u>

mor.jun/10

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: JUNE 1989

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

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
48	890624	S	0.00	B	5	NA	NN	NA	Power reduction of 20% or greater to perform heat treating operations for the circulating water intake tunnels and to clean condenser water boxes.
49	890630	F	12.45	A	1	89-009	BP	P	Reactor was manually tripped from 75% power due to a leaking mechanical seal on Low Pressure Safety Injection Pump 3P-015. The leak was attributed to motor bearing oil migration into the seal causing the O-ring to fail. The seal was replaced and a slinger ring was installed to preclude bearing oil migration into the seal.

¹F-Forced
S-Scheduled

²Reason:
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)

³Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuation from
Previous Month
5-Reduction of 20%
or greater in the
past 24 hours
6-Other (Explain)

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

mor.jun/11

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
June 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1155 MWe gross.
June 6	1800	Commenced power decrease to 80% power to perform repairs on a cracked instrument air supply line for the heater drain tank level control valves.
	2000	Reactor at 80% power.
	2216	Commenced power increase following completion of repairs to the instrument air supply for the heater drain tank level control valves.
June 7	0150	Reactor at 100% power.
June 23	1940	Commenced reactor power decrease to perform heat treating operations and condenser water box cleaning.
	2330	Reactor at 80% power. Commenced heat treating operations.
June 24	1042	Reactor power decreased to 75% following completion of heat treating operations to perform condenser water box cleaning.
June 30	0630	Commenced a Technical Specification required shutdown from 75% reactor power due to a leaking mechanical seal for Low Pressure Safety Injection Pump (LPSI) 3P-015. Declared an Unusual Event.

mor.jun/12

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
June 30	0745	Unusual Event closed.
	1133	Manually tripped the main turbine.
	1134	Manually tripped the reactor. Entered Mode 3.
	1830	Entered Mode 4.
	2400	Unit is in Mode 4 for the LPSI Pump 3P-015 mechanical seal repair outage.

mor.jun/13

REFUELING INFORMATION

- DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 14, 1989
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223
- MONTH: June 1989
1. Scheduled date for next refueling shutdown.
Forecasted for April 1, 1990.
 2. Scheduled date for restart following refueling.
Forecasted for June 10, 1990.
 3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Not yet specifically determined. Under evaluation.
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 specifically determined. Under evaluation.
 6. The number of fuel assemblies.
 - a) In the core. 217
 - b) In the spent fuel storage pool. 337 (268 Unit 3, 69 Unit 1)
 7. Licensed spent fuel storage capacity. 800
Intended change in spent fuel storage capacity. 1542, forecasted to occur during Cycle 5 (1991)
 8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.
Approximately 1996 (refueling only)
Approximately 1994 (full off load capability)

mor.jun/14