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 FACIL:50-361 San Onofre Nuclear Station, Unit 2, Southern Californ 05000361
 50-362 San Onofre Nuclear Station, Unit 3, Southern Californ 05000362
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 FARR,M.M. Southern California Edison Co.
 ROSENBLUM,R.M. Southern California Edison Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Oct 1991 for San Onofre Nuclear
 Generating Station,Units 2 & 3.W/911115ltr.

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Southern California Edison Company

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R. M. ROSENBLUM
MANAGER OF
NUCLEAR REGULATORY AFFAIRS

November 15, 1991

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

Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for October 1991
San Onofre Nuclear Generating Station, Units 2 and 3

Technical Specification 6.9.1.10 to Facility Operating Licenses NPF-10 and NPF-15 for the San Onofre Nuclear Generating Station, Units 2 and 3, respectively, requires SCE 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 October 1991 Monthly Operating Reports for Units 2 and 3, respectively. There were no challenges to safety valves, no changes to the ODCM, 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.

Very truly yours,

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)
C. W. Caldwell (USNRC Senior Resident Inspector, Units 1, 2 and 3)

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NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 11-15-91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: October 1991
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	745.00	7,296.00	71,929.00
12. Number Of Hours Reactor Was Critical	0.00	4,681.86	51,441.42
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	0.00	4,655.03	50,457.45
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	0.00	14,872,095.76	164,356,080.48
17. Gross Electrical Energy Generated (MWH)	0.00	5,015,529.50	55,723,023.50
18. Net Electrical Energy Generated (MWH)	(6,005.82)	4,743,408.58	52,795,930.82
19. Unit Service Factor	0.00%	63.80%	70.15%
20. Unit Availability Factor	0.00%	63.80%	70.15%
21. Unit Capacity Factor (Using MDC Net)	0.00%	60.76%	68.60%
22. Unit Capacity Factor (Using DER Net)	0.00%	60.76%	68.60%
23. Unit Forced Outage Rate	0.00%	14.94%	7.06%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Cycle 6 refueling outage commenced on August 17, 1991, in progress. Outage duration scheduled for 90 days.			
25. If Shutdown At End Of Report Period, Estimated Date of Startup: <u>November 15, 1991</u>			
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: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: October 1991

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>0.00</u>
9	<u>0.00</u>
10	<u>0.00</u>
11	<u>0.00</u>
12	<u>0.00</u>
13	<u>0.00</u>
14	<u>0.00</u>
15	<u>0.00</u>
16	<u>0.00</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0.00</u>
18	<u>0.00</u>
19	<u>0.00</u>
20	<u>0.00</u>
21	<u>0.00</u>
22	<u>0.00</u>
23	<u>0.00</u>
24	<u>0.00</u>
25	<u>0.00</u>
26	<u>0.00</u>
27	<u>0.00</u>
28	<u>0.00</u>
29	<u>0.00</u>
30	<u>0.00</u>
31	<u>0.00</u>

REPORT MONTH: October 1991

UNIT NAME: SONGS - 2

DATE: 11-15-91

COMPLETED BY: M. M. Farr

TELEPHONE: (714) 368-9787

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
68	910817	S	745.00	C	4	NA	NA	NA	Cycle 6 refueling outage.

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

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

<u>Date</u>	<u>Time</u>	<u>Event</u>
October 1	0001	Unit is in Mode 6, day 45 of the Cycle 6 refueling outage. Core alterations in progress.
October 11	1425	Completed reloading the core.
October 12	1830	Completed installation of reactor head.
October 14	1647	Entered Mode 5.
October 31	2400	Unit is in Mode 5, day 75 of the Cycle 6 refueling outage.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: October 1991

1. Scheduled date for next refueling shutdown.

Cycle 7 refueling outage is forecast for May 1993.

2. Scheduled date for restart following refueling.

Restart from Cycle 7 refueling outage is forecast for July 1993.

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

Yes.

What will these be?

All license amendments associated with the Cycle 6 refueling outage have been approved.

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

Not applicable.

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: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: October 1991

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 554 (484 Unit 2 Spent
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 2001 (full off load capability)

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 11-15-91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: October 1991
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>745.00</u>	<u>7,296.00</u>	<u>66,480.00</u>
12. Number Of Hours Reactor Was Critical	<u>745.00</u>	<u>6,806.28</u>	<u>51,034.25</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>745.00</u>	<u>6,630.52</u>	<u>49,607.01</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>2,488,582.61</u>	<u>22,153,207.29</u>	<u>158,450,848.85</u>
17. Gross Electrical Energy Generated (MWH)	<u>837,918.50</u>	<u>7,519,965.50</u>	<u>53,771,648.00</u>
18. Net Electrical Energy Generated (MWH)	<u>798,051.00</u>	<u>7,145,142.97</u>	<u>50,770,052.30</u>
19. Unit Service Factor	<u>100.00%</u>	<u>90.88%</u>	<u>74.62%</u>
20. Unit Availability Factor	<u>100.00%</u>	<u>90.88%</u>	<u>74.62%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.19%</u>	<u>90.68%</u>	<u>70.71%</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.19%</u>	<u>90.68%</u>	<u>70.71%</u>
23. Unit Forced Outage Rate	<u>0.00%</u>	<u>9.12%</u>	<u>7.96%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			<u>NA</u>
25. If Shutdown At End Of Report Period, Estimated Date of Startup:			<u>NA</u>
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>	

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 3
DATE: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: October 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1128.83</u>
2	<u>1082.88</u>
3	<u>1080.00</u>
4	<u>1079.08</u>
5	<u>1046.71</u>
6	<u>1077.08</u>
7	<u>1077.71</u>
8	<u>1075.92</u>
9	<u>1120.08</u>
10	<u>1083.83</u>
11	<u>1081.50</u>
12	<u>1070.79</u>
13	<u>1039.79</u>
14	<u>802.17</u>
15	<u>1079.42</u>
16	<u>1089.29</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1092.00</u>
18	<u>1086.21</u>
19	<u>1089.17</u>
20	<u>1086.25</u>
21	<u>1088.21</u>
22	<u>1083.71</u>
23	<u>1084.29</u>
24	<u>1085.58</u>
25	<u>1073.88</u>
26	<u>1075.42</u>
27	<u>1081.29</u>
28	<u>1090.38</u>
29	<u>1088.29</u>
30	<u>1087.50</u>
31	<u>1086.54</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1991

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 11-15-91
 COMPLETED BY: M. M. Farr
 TELEPHONE: (714) 368-9787

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
61	911014	5	0.00	B	5	NA	KE	COND	Reduced reactor power to 75% to support heat treating operations and circulating water pump repairs.

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

⁴IEEE Std 805-1984

⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

<u>Date</u>	<u>Time</u>	<u>Event</u>
October 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1125 MWe gross.
October 13	1935	Commenced reactor power decrease to 80% for circulating water system heat treatment.
	2230	Reactor at 80%.
October 14	1610	Commenced reactor power decrease to 75% to perform maintenance on circulating water pump P-117.
	1655	Reactor at 75%.
	2210	Commenced reactor power increase to 100% following completion of heat treating operations and maintenance on circulating water pump P-117.
October 15	0330	Reactor at 100%.
October 31	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1130 MWe gross.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: October 1991

1. Scheduled date for next refueling shutdown.

Cycle 6 refueling outage is forecast for January 1992.

2. Scheduled date for restart following refueling.

Restart from Cycle 6 refueling outage is forecast for April 1992.

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

Yes.

What will these be?

All license amendments associated with the Cycle 6 refueling outage have been approved.

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

Not applicable.

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: 50-362
UNIT NAME: SONGS - 3
DATE: 11-15-91
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: October 1991

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 445 (376 Unit 3 Spent
Fuel Assemblies and 69
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)