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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 Oct 1989 for San Onofre Units 2  
 & 3. W/891115 ltr.

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**Southern California Edison Company**

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November 15, 1989

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

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

The purpose of this letter is to provide the Monthly Operating Reports 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.

If you require additional information, please advise.

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)  
Institute of Nuclear Power Operations (INPO)

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11

# NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361  
UNIT NAME: SONGS - 2  
DATE: November 15, 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: October 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):
10. Reasons For Restrictions, If Any:

NA

NA

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745.00	7,296.00	54,409.00
12. Number Of Hours Reactor Was Critical	0.00	4,550.57	38,390.56
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	0.00	4,520.68	37,705.70
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	0.00	14,965,097.21	122,616,084.84
17. Gross Electrical Energy Generated (MWH)	0.00	5,094,622.00	41,528,795.00
18. Net Electrical Energy Generated (MWH)	(3,904.00)	4,821,428.10	39,342,915.45
19. Unit Service Factor	0.00%	61.96%	69.30%
20. Unit Availability Factor	0.00%	61.96%	69.30%
21. Unit Capacity Factor (Using MDC Net)	0.00%	61.76%	67.58%
22. Unit Capacity Factor (Using DER Net)	0.00%	61.76%	67.58%
23. Unit Forced Outage Rate	0.00%	22.87%	6.47%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	Cycle 5 refueling outage commenced on September 2, 1989 in progress.		

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 11/21/89
26. Units In Test Status (Prior To Commercial Operation): Forecast            Achieved

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

NA	NA
NA	NA
NA	NA

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361  
UNIT NAME: SONGS - 2  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

MONTH: October 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>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>

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## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: OCTOBER 1989

DOCKET NO: 50-361  
UNIT NAME: SONGS - 2  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
51	890902	S	745.00	C	4	NA	NA	NA	Cycle 5 refueling outage.

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>Method:  
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)

<sup>4</sup>IEEE Std 805-1984

<sup>5</sup>IEEE Std 803A-1983

# SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361  
UNIT NAME: SONGS - 2  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
October 1	0001	Reactor is defueled. Day 29 of the Cycle 5 refueling outage.
October 12	1110	Commenced reload of fuel assemblies into the reactor core. Entered Mode 6. Core alterations in progress.
October 17	0357	Completed reload of fuel assemblies into the reactor core.
October 22	1712	Core alterations completed.
October 27	2045	Entered Mode 5.
October 31	2400	Unit is in Mode 5. Day 59 of the Cycle 5 refueling outage.

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## REFUELING INFORMATION

DOCKET NO:	50-361
UNIT NAME:	SONGS - 2
DATE:	November 15, 1989
COMPLETED BY:	E. R. Siacor
TELEPHONE:	(714) 368-6223

MONTH: October 1989

1. Scheduled date for next refueling shutdown.

Forecasted for June 1991.

2. Scheduled date for restart following refueling.

Forecasted for September 1991.

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 specifically determined. Under evaluation.

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.

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# REFUELING INFORMATION

DOCKET NO: 50-361  
UNIT NAME: SONGS - 2  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

MONTH: October 1989

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 446 (376 Unit 2 Spent Fuel Assemblies and 70 Unit 1 Spent 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.oct/7



# NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362  
 UNIT NAME: SONGS - 3  
 DATE: November 15, 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: October 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>745.00</u>	<u>7,296.00</u>	<u>48,960.00</u>
12. Number Of Hours Reactor Was Critical	<u>745.00</u>	<u>6,787.54</u>	<u>36,466.28</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>6,761.89</u>	<u>35,352.08</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>2,465,612.58</u>	<u>22,425,670.92</u>	<u>110,954,451.27</u>
17. Gross Electrical Energy Generated (MWH)	<u>835,135.00</u>	<u>7,640,830.00</u>	<u>37,608,917.50</u>
18. Net Electrical Energy Generated (MWH)	<u>793,022.00</u>	<u>7,248,563.00</u>	<u>35,450,035.20</u>
19. Unit Service Factor	<u>100.00%</u>	<u>92.68%</u>	<u>72.21%</u>
20. Unit Availability Factor	<u>100.00%</u>	<u>92.68%</u>	<u>72.21%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>98.56%</u>	<u>91.99%</u>	<u>67.04%</u>
22. Unit Capacity Factor (Using DER Net)	<u>98.56%</u>	<u>91.99%</u>	<u>67.04%</u>
23. Unit Forced Outage Rate	<u>0.00%</u>	<u>7.32%</u>	<u>7.98%</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: NA
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>

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362  
UNIT NAME: SONGS - 3  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

MONTH: October 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1088.63</u>
2	<u>1084.83</u>
3	<u>1082.88</u>
4	<u>1084.67</u>
5	<u>1086.00</u>
6	<u>1083.13</u>
7	<u>1085.00</u>
8	<u>1085.25</u>
9	<u>1081.63</u>
10	<u>1083.42</u>
11	<u>1087.83</u>
12	<u>1090.42</u>
13	<u>1084.13</u>
14	<u>1054.13</u>
15	<u>1049.38</u>
16	<u>1088.29</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1090.96</u>
18	<u>1092.83</u>
19	<u>1089.29</u>
20	<u>1084.38</u>
21	<u>1087.00</u>
22	<u>1086.71</u>
23	<u>1086.83</u>
24	<u>1088.42</u>
25	<u>1088.25</u>
26	<u>1093.33</u>
27	<u>1074.21</u>
28	<u>827.96</u>
29	<u>802.38</u>
30	<u>1052.33</u>
31	<u>1098.13</u>

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## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: OCTOBER 1989

DOCKET NO: 50-362  
UNIT NAME: SONGS - 3  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
51	891028	S	0.00	B	5	NA	KE	COND	Power reduction of 20% or greater to perform heat treating operations for the circulating water tunnels and to clean condenser water boxes.

<sup>1</sup>F-Forced  
S-Scheduled

<sup>2</sup>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)

<sup>3</sup>Method:  
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)

<sup>4</sup>IEEE Std 805-1984

<sup>5</sup>IEEE Std 803A-1983

# SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362  
UNIT NAME: SONGS - 3  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
October 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1140 MWe gross.
October 27	2115	Commenced reactor power decrease to perform heat treating operations for the circulating water tunnels.
October 28	0030	Reactor at 80% power. Preparations for heat treating operations in progress.
	1632	Commenced heat treating operations.
	2030	Completed heat treating operations. Commenced reactor power decrease from 80% to 75% for condenser water box cleaning.
	2230	Reactor at 75% power.
	2345	Commenced condenser water box cleaning operations.
October 30	0001	Commenced reactor power increase following completion of condenser water box cleaning.
	0645	Reactor at 100% power.
October 31	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1154 MWe gross.

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## REFUELING INFORMATION

DOCKET NO:	<u>50-362</u>
UNIT NAME:	<u>SONGS - 3</u>
DATE:	<u>November 15, 1989</u>
COMPLETED BY:	<u>E. R. Siacor</u>
TELEPHONE:	<u>(714) 368-6223</u>

MONTH: October 1989

1. Scheduled date for next refueling shutdown.  
Forecasted for April 1, 1990.
2. Scheduled date for restart following refueling.  
Forecasted for June 1, 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.

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## REFUELING INFORMATION

DOCKET NO: 50-362  
UNIT NAME: SONGS - 3  
DATE: November 15, 1989  
COMPLETED BY: E. R. Siacor  
TELEPHONE: (714) 368-6223

MONTH: October 1989

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 337 (268 Unit 3 Spent Fuel  
Assemblies and 69 Unit 1  
Spent Fuel Assemblies)

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)

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