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 50-362 San Onofre Nuclear Station, Unit 3, Southern Californ 05000362
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SUBJECT: Monthly operating repts for Sept 1989 for San Onofre Nuclear
 Generating Station, Units 2 & 3. W/891016 ltr.

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October 16, 1989

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U. S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Subject: Docket Nos. 50-361/50-362
Monthly Operating Reports for September 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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NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 10-16-89
 COMPLETED BY: E. R. Siacor
 TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: September 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	6,551.00	53,664.00
12. Number Of Hours Reactor Was Critical	29.75	4,550.57	38,390.56
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	29.75	4,520.68	37,705.70
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	75,019.54	14,965,097.21	122,616,084.84
17. Gross Electrical Energy Generated (MWH)	24,889.50	5,094,622.00	41,528,795.00
18. Net Electrical Energy Generated (MWH)	17,930.89	4,825,332.89	39,346,820.24
19. Unit Service Factor	4.13%	69.01%	70.26%
20. Unit Availability Factor	4.13%	69.01%	70.26%
21. Unit Capacity Factor (Using MDC Net)	2.33%	68.84%	68.52%
22. Unit Capacity Factor (Using DER Net)	2.33%	68.84%	68.52%
23. Unit Forced Outage Rate	0.00%	22.87%	6.47%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
<u>Cycle 5 refueling outage commenced on September 2, 1989 in progress.</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 11/07/89

26. Units In Test Status (Prior To Commercial Operation): Forecast Achieved

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

<u>NA</u>	<u>NA</u>
<u>NA</u>	<u>NA</u>
<u>NA</u>	<u>NA</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 10-16-89
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: September 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>895.25</u>
2	<u>47.42</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>NA</u>

mor. sep/3

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: SEPTEMBER 1989

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 10-16-89
 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
51	890902	S	690.25	C	2	89-019	JC	NA	Cycle 5 refueling outage. During the progress of conducting normal plant shutdown for the current refueling outage, the reactor was manually tripped from 27% power due to the approach of axial shape index (ASI) to the Core Protection Calculator (CPC) auxiliary trip setpoint.

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

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: 10-16-89
 COMPLETED BY: E. R. Siacor
 TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
September 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1140 MWe gross.
	0500	Commenced reactor power decrease to 80% at a rate of 5% per hour to perform heat treating operations for the circulating water structure.
September 2	0001	Commenced reactor power decrease from 80% power, following completion of heat treating operations, for the Cycle 5 refueling outage.
	0543	Reactor manually tripped from 27% power due to the approach of Axial Shape Index (ASI) to the Core Protection Calculator (CPC) auxiliary trip setpoint. Entered Mode 3.
September 3	0950	Entered Mode 4.
September 4	0915	Entered Mode 5.
September 13	0315	Entered Mode 6.
September 17	2155	Commenced core alterations.
September 24	1249	Commenced off loading core.
September 30	0240	Completed off loading core.
	2400	Reactor is defueled. Cycle 5 refueling outage into its 28th day.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 10-16-89
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: September 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.

mor.sep/6

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 10-16-89
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: September 1989

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 663 (485 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)

NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 10-16-89
 COMPLETED BY: E. R. Siacor
 TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: September 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	720.00	6,551.00	48,215.00
12. Number Of Hours Reactor Was Critical	720.00	6,042.54	35,721.28
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	720.00	6,016.89	34,607.08
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,424,722.67	19,960,058.34	108,488,838.69
17. Gross Electrical Energy Generated (MWH)	817,504.00	6,805,695.00	36,773,782.50
18. Net Electrical Energy Generated (MWH)	776,631.00	6,455,541.00	34,657,013.20
19. Unit Service Factor	100.00%	91.85%	71.78%
20. Unit Availability Factor	100.00%	91.85%	71.78%
21. Unit Capacity Factor (Using MDC Net)	99.88%	91.24%	66.56%
22. Unit Capacity Factor (Using DER Net)	99.88%	91.24%	66.56%
23. Unit Forced Outage Rate	0.00%	8.15%	8.14%
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>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 10-16-89
 COMPLETED BY: E. R. Siacor
 TELEPHONE: (714) 368-6223

MONTH: September 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1050.25</u>
2	<u>1079.38</u>
3	<u>1094.63</u>
4	<u>1096.58</u>
5	<u>1097.63</u>
6	<u>1099.38</u>
7	<u>1103.75</u>
8	<u>1092.79</u>
9	<u>1059.08</u>
10	<u>1062.08</u>
11	<u>1072.96</u>
12	<u>1094.29</u>
13	<u>1061.00</u>
14	<u>1057.54</u>
15	<u>1065.50</u>
16	<u>1092.21</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1072.71</u>
18	<u>1055.79</u>
19	<u>1057.13</u>
20	<u>1054.17</u>
21	<u>1068.88</u>
22	<u>1083.50</u>
23	<u>1087.13</u>
24	<u>1088.79</u>
25	<u>1088.46</u>
26	<u>1089.67</u>
27	<u>1088.58</u>
28	<u>1086.04</u>
29	<u>1087.38</u>
30	<u>1072.38</u>
31	<u>NA</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: SEPTEMBER 1989

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 10-16-89
 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
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 10-16-89
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
September 1	0001	Unit is in Mode 1 at 80% reactor power. Turbine load at 870 MWe gross. Heat treating operations in progress.
	0220	Commenced reactor power increase to 100% following completion of the heat treating operations.
	0335	Reactor at 100% power.
September 30	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1140 MWe gross.

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REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 10-16-89
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: September 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: 10-16-89
COMPLETED BY: E. R. Siacor
TELEPHONE: (714) 368-6223

MONTH: September 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)