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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
 AUTH.NAME AUTHOR AFFILIATION
 SIACOR,E.R. Southern California Edison Co.
 MORGAN,H.E. Southern California Edison Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for May 1988 for San Onofre Nuclear
 Generating Station,Units 2 & 3.

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 TITLE: Monthly Operating Report (per Tech Specs)

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NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
 UNIT SONGS - 2
 DATE _____
 COMPLETED BY E. R. Siacor
 TELEPHONE (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: May 1988
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	744.00	3,647.00	41,976.00
12. Number Of Hours Reactor Was Critical	744.00	3,197.61	28,751.29
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	744.00	3,159.90	28,105.75
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,513,805.66	10,506,967.23	99,668,092.50
17. Gross Electrical Energy Generated (MWH)	869,973.50	3,619,011.50	30,605,473.00
18. Net Electrical Energy Generated (MWH)	830,510.00	3,442,194.00	28,960,940.34
19. Unit Service Factor	100.00%	86.64%	66.96%
20. Unit Availability Factor	100.00%	86.64%	66.96%
21. Unit Capacity Factor (Using MDC Net)	104.32%	88.21%	64.48%
22. Unit Capacity Factor (Using DER Net)	104.32%	88.21%	64.48%
23. Unit Forced Outage Rate	0.00%	0.00%	4.13%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	NA		

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
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

NA	NA
NA	NA
NA	NA

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361
UNIT SONGS - 2
DATE June 15, 1988
COMPLETED BY E. R. Siacor
TELEPHONE (714) 368-6223

MONTH May 1988

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	1119.96
2	1125.58
3	1127.29
4	1125.33
5	1126.58
6	1112.71
7	1119.63
8	1125.75
9	1123.25
10	1122.21
11	1120.54
12	1121.00
13	1118.17
14	1117.75
15	1117.08
16	1115.54

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	1113.50
18	1112.83
19	1113.88
20	1106.96
21	1112.63
22	1111.21
23	1113.92
24	1110.46
25	1108.67
26	1108.75
27	1099.50
28	1106.25
29	1111.79
30	1118.08
31	1117.79

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MAY 1988

DOCKET NO. 50-361

UNIT NAME SONGS - 2

DATE JUNE 15, 1988

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. 50-361
UNIT SONGS - 2
DATE June 15, 1988
COMPLETED BY E. R. Siacor
TELEPHONE (714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
May 1	0001	Unit is in Mode 1 at 100% reactor power.
May 6	0859	Power decrease initiated in accordance with Tech. Spec. 3.0.3 due to inoperability of both trains of emergency chillers on low refrigerant level.
	1135	Declared Train A chiller operable and return to 100% power initiated from 91.5%.
	1430	Reactor power at 100%.
May 31	2400	Unit is in Mode 1 at 100% reactor power. Full power operations are planned.

REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE June 15, 1988

COMPLETED BY E. R. Siacor

TELEPHONE (714) 368-6223

MONTH: May 1988

1. Scheduled date for next refueling shutdown.

August 1989

2. Scheduled date for restart following refueling.

October 1989

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

Not yet determined

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 determined

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 268

7. Licensed spent fuel storage capacity. 800

Intended change in spent fuel storage capacity. Under Review

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

Approximately 1997 (refueling only)

Approximately 1993 (full off load capability)

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362
 UNIT SONGS - 3
 DATE June 15, 1988
 COMPLETED BY E. R. Siacor
 TELEPHONE (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: May 1988
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	744.00	3,647.00	36,527.00
12. Number Of Hours Reactor Was Critical	0.00	2,632.27	26,380.24
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	0.00	2,580.82	25,455.02
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	0.00	8,593,478.45	78,194,874.27
17. Gross Electrical Energy Generated (MWH)	0.00	2,952,875.50	26,430,776.50
18. Net Electrical Energy Generated (MWH)	(4,084.00)	2,792,477.00	24,862,141.47
19. Unit Service Factor	0.00%	70.77%	69.69%
20. Unit Availability Factor	0.00%	70.77%	69.69%
21. Unit Capacity Factor (Using MDC Net)	0.00%	70.90%	63.02%
22. Unit Capacity Factor (Using DER Net)	0.00%	70.90%	63.02%
23. Unit Forced Outage Rate	0.00%	2.43%	8.85%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
<u>Cycle 4 refueling outage, April 30, 1988, 78 day duration now in progress.</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: July 16, 1988
 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 SONGS - 3
DATE June 15, 1988
COMPLETED BY E. R. Siacor
TELEPHONE (714) 368-6223

MONTH May 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MAY 1988

DOCKET NO. 50-362
UNIT NAME SONGS - 3
DATE June 15, 1988
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
41	880430	S	744.00	C	4	NA	NA	NA	Cycle 4 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 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	SONGS - 3
DATE	June 15, 1988
COMPLETED BY	E. R. Siacor
TELEPHONE	(714) 368-6223

<u>Date</u>	<u>Time</u>	<u>Event</u>
May 1	0001	Unit is in Mode 3 and in day 2 of Cycle 4 refueling outage.
	0350	Entered Mode 4.
	2005	Entered Mode 5.
May 9	2220	Entered Mode 6, first reactor vessel head stud detensioned.
May 13	1144	Commenced core alterations.
May 22	2218	Commenced fuel movement.
May 31	2400	Unit is defueled and in day 32 of Cycle 4 refueling outage.

REFUELING INFORMATION

DOCKET NO. 50-362
UNIT SONGS - 3
DATE June 15, 1988
COMPLETED BY E. R. Siacor
TELEPHONE (714) 368-6223

MONTH: May 1988

1. Scheduled date for next refueling shutdown.
Not yet determined.
2. Scheduled date for restart following refueling.
Not yet determined.
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Not yet determined.
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 determined.
6. The number of fuel assemblies.
 - a) In the core. 0
 - b) In the spent fuel storage pool. 377 irradiated fuel
108 new fuel
7. Licensed spent fuel storage capacity. 800
Intended change in spent fuel storage capacity. Under Review
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.
Approximately 1997 (refueling only)
Approximately 1993 (full off load capability)



Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

H. E. MORGAN
STATION MANAGER

TELEPHONE
(714) 368-6241

June 15, 1988

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

Subject: Docket Nos. 50-361/50-362
Monthly Operating Reports for May 1988
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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