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 50-362 San Onofre Nuclear Station, Unit 3, Southern Californ 05000362
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 RAINSBERRY, J.L. Southern California Edison Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Mar 1992 for San Onofre Nuclear
 Generating Station, Units 2 & 3. W/ 920415 ltr.

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Southern California Edison Company



SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

April 15, 1992

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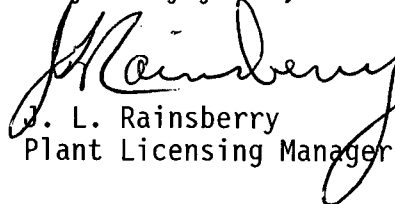
Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for March 1992
San Onofre Nuclear Generating Station, Units 2 and 3

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 March 1992 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,


J. L. Rainsberry
Plant Licensing Manager

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3
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: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: March 1992
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	2,184.00	75,577.00
12. Number Of Hours Reactor Was Critical	304.28	1,744.28	54,236.53
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	304.23	1,744.23	53,185.78
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	1,017,889.91	5,823,371.78	173,345,407.21
17. Gross Electrical Energy Generated (MWH)	348,361.50	1,996,552.50	58,797,855.00
18. Net Electrical Energy Generated (MWH)	323,611.00	1,894,643.00	55,706,977.83
19. Unit Service Factor	40.89%	79.86%	70.37%
20. Unit Availability Factor	40.89%	79.86%	70.37%
21. Unit Capacity Factor (Using MDC Net)	40.65%	81.08%	68.89%
22. Unit Capacity Factor (Using DER Net)	40.65%	81.08%	68.89%
23. Unit Forced Outage Rate	59.11%	20.14%	7.44%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	None		
25. If Shutdown At End Of Report Period, Estimated Date of Startup:	April, 1992		
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: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: March 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1099.46</u>
2	<u>1101.04</u>
3	<u>1101.33</u>
4	<u>1098.75</u>
5	<u>1098.83</u>
6	<u>1099.33</u>
7	<u>1091.83</u>
8	<u>1100.50</u>
9	<u>1100.17</u>
10	<u>1099.17</u>
11	<u>1100.25</u>
12	<u>1096.00</u>
13	<u>611.63</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>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361

UNIT NAME: SONGS - 2

REPORT MONTH: March 1992

DATE: 4-15-92

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
71	920313	F	439.77	H	1	2-92-006	BE BP BQ	ISV	See note below.

Note: The common Emergency Core Cooling System (ECCS) and Containment Spray (CS) minimum flow isolation valves had been previously configured to the generally accepted methodology and regulatory criteria given in IEB 85-03, "Motor-Operated Valve Common Mode Failures During Plant Transients Due to Improper Switch Settings," dated May 19, 1986. On March 10, 1992, while performing design basis testing of the Unit 3 ECCS and CS minimum flow isolation valves in Mode 5 following refueling, it was determined that these valves did not satisfy the new and more rigorous criteria of Generic Letter (GL) 89-10 and were considered inoperable. As a result of the Unit 3 test results, the operating configuration of the Unit 2 ECCS and CS pump minimum flow isolation valves was evaluated. This evaluation concluded on March 13, 1992, that the configuration of the isolation valves was potentially less conservative than required to assure operability per GL 89-10. Reactor shutdown was initiated at 1120 to perform testing and make any necessary modifications. Both Unit 2 and 3 ECCS and CS minimum flow isolation valves have been reconfigured to satisfy GL 89-10 criteria.

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: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

<u>Date</u>	<u>Time</u>	<u>Event</u>
March 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1150 MWe gross.
March 13	1120	Commenced reactor shutdown due to inoperability of HV9306, HV9307, HV9347, and HV9345, ECCS and CS minimum flow isolation valves. Unusual Event declared.
	1528	Unusual Event terminated.
	1614	Manually tripped main turbine.
	1617	Manually tripped reactor at 16% power. Entered Mode 3.
	2245	Entered Mode 4.
March 14	2250	Entered Mode 5.
March 29	1620	Commenced heat up of RCS for Mode 4 following completion of all work activities.
	1637	Entered Mode 4.
March 31	2340	Entered Mode 3.
	2400	Unit is in Mode 3, 360 degrees F, continuing RCS heat up to normal temperature of 545 degrees F.

REFUELING INFORMATION

DOCKET NO:	<u>50-361</u>
UNIT NAME:	<u>SONGS - 2</u>
DATE:	<u>4-15-92</u>
COMPLETED BY:	<u>M. M. Farr</u>
TELEPHONE:	<u>(714) 368-9787</u>

MONTH: March 1992

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?

Not yet determined for Cycle 7.

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.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: March 1992

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: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: March 1992
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	2,184.00	70,128.00
12. Number Of Hours Reactor Was Critical	152.58	722.01	53,220.26
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	42.38	611.80	51,682.81
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	71,679.52	1,975,259.50	165,262,683.96
17. Gross Electrical Energy Generated (MWH)	13,343.00	654,079.00	56,054,104.00
18. Net Electrical Energy Generated (MWH)	(428.33)	603,610.07	52,921,717.36
19. Unit Service Factor	5.70%	28.01%	73.70%
20. Unit Availability Factor	5.70%	28.01%	73.70%
21. Unit Capacity Factor (Using MDC Net)	0.00%	25.59%	69.87%
22. Unit Capacity Factor (Using DER Net)	0.00%	25.59%	69.87%
23. Unit Forced Outage Rate	0.00%	0.00%	7.66%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	None		
25. If Shutdown 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	

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 3
DATE: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: March 1992

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>26.58</u>
31	<u>432.29</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: March 1992

DOCKET NO: 50-362
 UNIT NAME: SONGS - 3
 DATE: 4-15-92
 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
63	920124	S	701.62	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

mor.mar/10

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

<u>Date</u>	<u>Time</u>	<u>Event</u>
March 1	0001	Unit is in Mode 5, day 44 of the Cycle 6 refueling outage.
March 2	1450	Raised RCS temperature to 140 degrees F, ended Cycle 5.
March 20	0130	Entered Mode 4.
March 27	0948	Entered Mode 3.
	1657	Entered Mode 2.
	1739	Reactor made critical.
March 28	2253	Entered Mode 1.
March 30	0537	Unit synchronized to grid.
March 31	2400	Unit is in Mode 1 at 68% power. Turbine load at 1150 760 MWe gross.

REFUELING INFORMATION

DOCKET NO:	<u>50-362</u>
UNIT NAME:	<u>SONGS - 3</u>
DATE:	<u>4-15-92</u>
COMPLETED BY:	<u>M. M. Farr</u>
TELEPHONE:	<u>(714) 368-9787</u>

MONTH: March 1992

1. Scheduled date for next refueling shutdown.

Cycle 7 refueling outage is forecast for August 1993.

2. Scheduled date for restart following refueling.

Restart from Cycle 7 refueling outage is forecast for October 1992.

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

Not yet determined for Cycle 7.

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.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 4-15-92
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: March 1992

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 553 (484 Unit 3 Spent
Fuel Assemblies, 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)