Southern California Edison Company

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February 14, 1991

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

Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for January 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 requires reporting within 90 days from the time the changes were made effective.

This letter transmits the January 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)
G. Kalman (NRR, SONGS Project Manager)
Institute of Nuclear Power Operations (INPO)

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NRC MONTHLY OPERATING REPORT

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

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: January 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	744.00	744.00	65,377.00
12.	Number Of Hours Reactor Was Critical	744.00	744.00	47,503.56
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	744.00	744.00	46,546.42
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	2,503,634.90	2,503,634.90	151,987,619.61
17.	Gross Electrical Energy Generated (MWH)	858,755.50	858,755.50	51,566,249.50
18.	Net Electrical Energy Generated (MWH)	820,078.00	820,078.00	48,872,600.24
19.	Unit Service Factor	100.00%	100.00%	71.20%
20.	Unit Availability Factor	100.00%	100.00%	71.20%
21.	Unit Capacity Factor (Using MDC Net)	103.01%	103.01%	69.86%
22.	Unit Capacity Factor (Using DER Net)	103.01%	103.01%	69.86%
23.	Unit Forced Outage Rate	0.00%	0.00%	6.09%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): NA

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 - 2
DATE:
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: January 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1111.60	17	1106.04
2	1108.58	18	1097.04
3	1109.60	19	1103.13
4	1105.58	20	1104.88
5	1116.63	21	1113.13
6	1099.60	22	1104.58
7	1102.77	23	1096.23
8	1107.73	24	1108.13
9	1127.69	25	1105.88
10	1081.04	26	1089.58
11	1105.63	27	1115.67
12	1097.08	28	1113.08
13	1112.81	29	1100.23
14	1102.92	30	1100.33
15	1101.77	31	1103.96
16	1109.33		

mor.jan/3

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH: January 1991

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

[1]F-Forced
S-Scheduled

[2]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)

[3]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)

[4]IEEE Std 805-1984

[5]IEEE Std 803A-1983

mor.jan/4

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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

Date	Time	Event
January 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1154 MWe gross.
January 31	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1151 MWe gross.

mor.jan/5

REFUELING INFORMATION

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

MONTH: January 1991

1. Scheduled date for next refueling shutdown.

   Cycle 6 refueling outage is forecast for July 1991.

2. Scheduled date for restart following refueling.

   Restart from Cycle 6 refueling outage is forecast for October 1991.

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

   No.

   What will these be?

   Not applicable.

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.

mor.jan/6

REFUELING INFORMATION

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

MONTH: January 1991

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. 1542 *

   Intended change in spent fuel storage capacity. None

   * Expanded from 800 to 1542 by License Amendment No. 87 - Facility modification is scheduled to be completed by March 1991.

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

   Approximately 2001 (full off load capability)

mor.jan/7

NRC MONTHLY OPERATING REPORT

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

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: January 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	744.00	744.00	59,928.00
12.	Number Of Hours Reactor Was Critical	744.00	744.00	44,971.97
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	744.00	744.00	43,720.49
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	2,507,968.66	2,507,968.66	138,805,610.22
17.	Gross Electrical Energy Generated (MWH)	867,474.50	867,474.50	47,119,157.00
18.	Net Electrical Energy Generated (MWH)	825,839.00	825,839.00	44,450,748.33
19.	Unit Service Factor	100.00%	100.00%	72.96%
20.	Unit Availability Factor	100.00%	100.00%	72.96%
21.	Unit Capacity Factor (Using MDC Net)	102.78%	102.78%	68.68%
22.	Unit Capacity Factor (Using DER Net)	102.78%	102.78%	68.68%
23.	Unit Forced Outage Rate	0.00%	0.00%	7.65%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): NA
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:
COMPLETED BY: M. M. Farr
TELEPHONE: (714) 368-9787

MONTH: January 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1135.71	17	1113.58
2	1114.71	18	1106.13
3	1114.54	19	1110.08
4	1108.83	20	1110.21
5	1112.33	21	1111.00
6	1114.71	22	1108.04
7	1115.71	23	1108.46
8	1115.42	24	1108.25
9	1115.79	25	1107.21
10	1115.67	26	1088.00
11	1106.08	27	1105.17
12	1114.71	28	1105.38
13	1114.63	29	1104.50
14	1113.67	30	1103.54
15	1113.67	31	1100.54
16	1114.96		

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: January 1991

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

[1]F-Forced
S-Scheduled

[2]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)

[3]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)

[4]IEEE Std 805-1984

[5]IEEE Std 803A-1983

mor.jan/10

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

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

Date	Time	Event
January 1	0001	Unit is in Mode 1 at 100% reactor power. Turbine load at 1164 MWe gross.
January 31	2400	Unit is in Mode 1 at 100% reactor power. Turbine load at 1150 MWe gross.

mor.jan/11

REFUELING INFORMATION

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

MONTH: January 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?

   Not yet specifically determined. Under evaluation.

   What will these be?

   Not yet specifically determined. Under evaluation.

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.jan/12

REFUELING INFORMATION

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

MONTH: January 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

* Expanded from 800 to 1542 by License Amendment No. 77 - Facility modification is scheduled to be completed by September 1991.

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

   Approximately 2003 (full off load capability)