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December 15, 1992

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

Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for November 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 November 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,

Walter C. Marsh

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)
M. B. Fields (NRC Project Manager, 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: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: November 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	720.00	8,040.00	81,433.00
12.	Number Of Hours Reactor Was Critical	720.00	7,498.11	59,990.36
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	720.00	7,471.72	58,931.27
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	2,432,846.39	24,848,693.28	192,370,728.71
17.	Gross Electrical Energy Generated (MWH)	822,106.50	8,413,529.00	65,214,831.50
18.	Net Electrical Energy Generated (MWH)	784,309.00	8,003,587.00	61,815,921.83
19.	Unit Service Factor	100.00%	92.93%	72.35%
20.	Unit Availability Factor	100.00%	92.93%	72.35%
21.	Unit Capacity Factor (Using MDC Net)	101.81%	92.03%	70.94%
22.	Unit Capacity Factor (Using DER Net)	101.81%	92.03%	70.94%
23.	Unit Forced Outage Rate	0.00%	7.07%	6.95%

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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

MONTH: November 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1090.50	16	1087.83
2	1090.54	17	1087.29
3	1089.33	18	1086.58
4	1068.63	19	1085.96
5	1093.33	20	1081.85
6	1095.71	21	1087.33
7	1086.96	22	1090.33
8	1092.88	23	1087.46
9	1093.38	24	1084.42
10	1092.54	25	1088.92
11	1093.25	26	1092.04
12	1092.25	27	1082.92
13	1082.17	28	1091.79
14	1089.92	29	1091.29
15	1088.75	30	1093.42

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
REPORT MONTH: November 1992
DATE: 12/15/92
COMPLETED BY: J. L. Darling
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

There were no Unit shutdowns or power reductions this reporting period.

[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 in the Average Daily Power Level of more than 20% from the previous day
6-Other (Explain)

[4]IEEE Std 805-1984

[5]IEEE Std 803A-1983

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

Date	Time	Event
November 1	0001	Unit is in Mode 1, 100% Reactor power, 1138 MWe.
November 30	2400	Unit is in Mode 1, 100% Reactor power, 1141 MWe.

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REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

MONTH: November 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 August 1993.

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

   Yes.

   What will these be?

   The following Technical Specification changes are desired in support of work being performed during the Unit 2 Cycle 7 refueling outage.

   A. A change to Technical Specification 3.9.7 will be requested to permit use of the cask pool cover to support refueling activities. This cover had previously been used to support the spent fuel pool reracking project. NRC approval of this change will be required prior to the start of the outage to support use of the cover during the outage.

   B. A change was requested to Technical Specification 4.4.5.2.1 to allow a delay in performing an RCS inventory balance during plant transients. Although not required, NRC approval of this change is desired prior to startup from the Unit 2 Cycle 7 outage.

   C. A change will be requested to Technical Specification 3.7.1.1 to allow a tolerance on the main steam safety valves for the purpose of determining valve operability. Although not required, NRC approval of this change is desired to support the surveillance testing scheduled to be performed during the Unit 2 Cycle 7 outage.

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REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

MONTH: November 1992

D. A license Amendment and Technical Specification changes will be requested to permit implementation of a design change to use the containment spray pumps for shutdown cooling and spent fuel pool cooling. NRC approval of this change will be requested to permit use of the spray pumps for spent fuel pool cooling during the Unit 2 cycle 7 outage.

4. Scheduled date for submitting proposed licensing action and supporting information.

A.	Proposed Change on Cask Pool Cover	December 31, 1992
B.	Proposed Change on RCS Leakrate	Submitted November 20, 1992
C.	Proposed Change on MSSVs	December 31, 1992
D.	Proposed Change on Spray Pumps	December 31, 1992

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.

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)

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NRC MONTHLY OPERATING REPORT

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: November 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	720.00	8,040.00	75,984.00
12.	Number Of Hours Reactor Was Critical	720.00	5,957.51	58,455.76
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	720.00	5,791.05	56,862.06
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	2,378,456.80	18,837,866.58	182,125,291.04
17.	Gross Electrical Energy Generated (MWH)	815,708.00	6,361,342.50	61,761,367.50
18.	Net Electrical Energy Generated (MWH)	774,664.00	6,004,756.07	58,322,863.36
19.	Unit Service Factor	100.00%	72.03%	74.83%
20.	Unit Availability Factor	100.00%	72.03%	74.83%
21.	Unit Capacity Factor (Using MDC Net)	99.62%	69.15%	71.07%
22.	Unit Capacity Factor (Using DER Net)	99.62%	69.15%	71.07%
23.	Unit Forced Outage Rate	0.00%	5.78%	7.55%

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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
UNIT NAME: SONGS - 3
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

MONTH: November 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1096.79	16	1062.54
2	1096.08	17	1091.17
3	1095.88	18	1094.33
4	1097.00	19	1096.00
5	1096.54	20	1093.54
6	1086.75	21	1102.21
7	1096.63	22	1102.50
8	1095.17	23	1101.38
9	1092.75	24	1102.29
10	1092.08	25	1103.79
11	1097.46	26	1104.46
12	1095.67	27	1102.04
13	1094.63	28	1092.25
14	812.38	29	1101.42
15	779.83	30	1102.13

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: November 1992

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 12/15/92
COMPLETED BY: J. L. Darling
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
70	921114	S	0.0	B	5	NA	KE	COND	Reduced reactor power to 80% to perform circulating water system heat treat.

[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 in the Average Daily Power Level of more than 20% from the previous day
6-Other (Explain)

[4]IEEE Std 805-1984

[5]IEEE Std 803A-1983

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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

Date	Time	Event
November 1	0001	Unit is in Mode 1 at 100% reactor power, 1140 MWe.
November 13	2300	Commenced down power to 80% for circulating water heat treat.
November 14	1335	Heat treat completed.
	1548	Power reduced to 75% to support maintenance activities requiring a reduced power level.
November 15	2130	Commenced Unit load increase following completion of planned maintenance activities.
November 16	0610	Unit at 100% reactor power, 1140 MWe.
November 30	2400	Unit is in Mode 1, 100% reactor power, 1148 MWe.

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REFUELING INFORMATION

DOCKET NO:	50-362
UNIT NAME:	SONGS - 3
DATE:	12/15/92
COMPLETED BY:	J. L. Darling
TELEPHONE:	(714) 368-6223

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1. Scheduled date for next refueling shutdown.

   Cycle 7 refueling outage is forecast for September 1993.

2. Scheduled date for restart following refueling.

   Restart from Cycle 7 refueling outage is forecast for December 1993.

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

   Yes.

   What will these be?

   The following Technical Specification changes are desired in support of work being performed during the Unit 3 Cycle 7 refueling outage.

   A. A change to Technical Specification 3.9.7 will be requested to permit use of the cask pool cover to support refueling activities. This cover had previously been used to support the spent fuel pool reracking project. NRC approval of this change will be required prior to the start of the outage to support use of the cover during the outage.

   B. A change was requested to Technical Specification 3.4.5.2.1 to allow a delay in performing an RCS inventory balance during plant transients. Although not required, NRC approval of this change is desired prior to startup from the Unit 3 Cycle 7 outage.

   C. A change will be requested to Technical Specification 3.7.1.1 to allow a tolerance of on the main steam safety valves for the purpose of determining valve operability. Although not required, NRC approval of this change is desired to support the surveillance testing scheduled to be performed during the Unit 3 Cycle 7 outage.

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REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: 12/15/92
COMPLETED BY: J. L. Darling
TELEPHONE: (714) 368-6223

MONTH: November 1992

D. A license Amendment and Technical Specification changes will be requested to permit implementation of a design change to use the containment spray pumps for shutdown cooling and spent fuel pool cooling. NRC approval of this change will be requested to permit .3 of the spray pumps for spent fuel pool cooling during the Unit 3 cycle 7 outage.

4. Scheduled date for submitting proposed licensing action and supporting information.

A.	Proposed Change on Cask Pool Cover	December 31, 1992
B.	Proposed Change on RCS Leakrate	Submitted November 20, 1992
C.	Proposed Change on MSSVs	December 31, 1992
D.	Proposed Change on Spray Pumps	December 31, 1992

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.

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)

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