Southern California Edison Company

23 PARKER STREET

IRVINE, CALIFORNIA 92718

November 8, 1994

WALTER C. MARSH
MANAGER OF NUCLEAR REGULATORY AFFAIRS

TELEPHONE
(714) 454-4403

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

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for October 1994
San Onofre Nuclear Generating Station, Units 2 and 3

Technical Specification 6.9.1.10 of Facility Operating Licenses NPF-10 and NPF-15 for the San Onofre Nuclear Generating Station, Units 2 and 3, respectively, requires Edison to 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 are effective.

This letter transmits the October 1994 Monthly Operating Reports for Units 2 and 3, respectively. There were no challenges to safety valves, 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.

Sincerely,

Walter C. Marsh

Enclosures

cc: L. J. Callan, Regional Administrator, NRC Region IV
A. B. Beach, Director, Division of Reactor Projects, NRC Region IV
K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC Region IV
M. B. Fields, NRC Project Manager, Units 2 and 3
J. A. Sloan, Senior NRC Resident Inspector, San Onofre Units 1, 2 & 3

020071

9411250017 941031
PDR ADOCK 05000361
R PDR

IE24
1/1

NRC MONTHLY OPERATING REPORT
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: October 1994
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	745.00	7,296.00	98,233.00
12.	Number Of Hours Reactor Was Critical	745.00	7,296.00	75,310.59
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	745.00	7,296.00	74,167.34
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	2,440,983.00	23,921,633.40	242,495,889.84
17.	Gross Electrical Energy Generated (MWH)	830,874.50	8,118,555.00	82,206,343.00
18.	Net Electrical Energy Generated (MWH)	793,536.00	7,737,394.00	77,992,092.88
19.	Unit Service Factor	100.00%	100.00%	75.50%
20.	Unit Availability Factor	100.00%	100.00%	75.50%
21.	Unit Capacity Factor (Using MDC Net)	99.55%	99.11%	74.20%
22.	Unit Capacity Factor (Using DER Net)	99.55%	99.11%	74.20%
23.	Unit Forced Outage Rate	0.00%	0.00%	5.60%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling Shutdown, February 11, 1995, Duration (64 days)
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: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: October 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1071.17	16	1067.50
2	1070.33	17	1067.79
3	1071.42	18	1067.42
4	1070.50	19	1067.58
5	1070.17	20	1070.71
6	1070.17	21	1058.71
7	1065.29	22	1069.83
8	1071.33	23	1070.29
9	1073.96	24	1069.92
10	1072.21	25	1070.08
11	1071.79	26	1069.88
12	1068.08	27	1071.04
13	1066.58	28	1067.79
14	1068.21	29	936.38
15	1068.13	30	1028.92
		31	1117.96

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1994

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

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 reductions in the Average Daily Power Level of more than 20% 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

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

Date		Time	Event
October	01	0001	Unit is in Mode 1, 98% reactor power, 1121 MWe.
October	29	0810	Commenced reducing reactor power to 80% for circulating water system heat treatment.
		0940	Unit at 80% reactor power.
		2035	Commenced unit load increase following completion of circulating water system heat treatment.
		2330	Unit at 97% reactor power, 1105 MWe.
October	30	0200	Turned all clocks back 1 hour to conform to Pacific Standard Time.
October	31	2400	Unit is in Mode 1, 97.7% reactor power, 1117 MWe.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: October 1994

1. Scheduled date for next refueling shutdown.

   Cycle 8 refueling outage is forecast for February 11, 1995.

2. Scheduled date for restart following refueling.

   Restart from Cycle 8 refueling outage is forecast for April 15, 1995.

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

   Yes

   What will these be?

   A. A proposed change to the Technical Specifications has been requested which will revise the minimum water level in the refueling cavity with only one train of shutdown cooling operable.

   B. A proposed change to the Technical Specifications has been requested to revise the allowed Linear Heat Rate from 13.9 to 13.0 kw/ft.

   C. A proposed change to the Final Safety Analysis has been requested to remove the diversity requirement of the pressurizer pressure transmitters providing input to the shutdown cooling open permissive interlock.

   D. Proposed change to the Technical Specifications (PCN 431), revising the automatic reset of the low pressurizer pressure bypass, has been revised to simplify the request.

   E. A proposed change to the Technical Specifications has been requested to allow a 3.0.4 exception for entering Modes 5 and 6 with the Control Room Emergency Air Cleanup System inoperable.

REFUELING INFORMATION

DOCKET NO:	50-361
UNIT NAME:	SONGS - 2
DATE:	November 8, 1994
COMPLETED BY:	R. L. Kaplan
TELEPHONE:	(714) 368-6834

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

A.	Refueling Cavity Water Level	Submitted July 28, 1994
B.	Linear Heat Rate	Submitted September 16, 1994
C.	Pressure Instrument Diversity	Submitted July 6, 1994
D.	Low Pressurizer Pressure B[illegible]s	Revision submitted September 6, 1994
E.	Control Room Air Cleanup	Submitted August 26, 1994

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.
   662 Total Fuel Assemblies
   592 Unit 2 Spent Fuel Assemblies
   0 Unit 2 New 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 [illegible] discharged to spent fuel storage pool assuming present capacity.

   Approximately 2005 (full off-load capability)

NRC MONTHLY OPERATING REPORT
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: October 1994
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	745.00	7,296.00	92,784.00
12.	Number Of Hours Reactor Was Critical	745.00	7,296.00	73,222.45
13.	Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14.	Hours Generator On-Line	745.00	7,282.60	71,579.49
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	2,440,821.97	23,675,973.09	230,347,762.80
17.	Gross Electrical Energy Generated (MWH)	822,398.50	8,056,724.00	78,200,131.00
18.	Net Electrical Energy Generated (MWH)	779,651.00	7,629,021.00	73,892,059.94
19.	Unit Service Factor	100.00%	99.82%	77.15%
20.	Unit Availability Factor	100.00%	99.82%	77.15%
21.	Unit Capacity Factor (Using MDC Net)	96.90%	96.82%	73.74%
22.	Unit Capacity Factor (Using DER Net)	96.90%	96.82%	73.74%
23.	Unit Forced Outage Rate	0.00%	0.00%	6.23%

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: 50-362
UNIT NAME: SONGS - 3
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: October 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	794.29	16	1056.17
2	988.21	17	1057.25
3	1058.54	18	1056.71
4	1061.38	19	1057.54
5	1059.75	20	1058.58
6	1059.83	21	1058.50
7	1058.79	22	1059.29
8	1059.29	23	1058.92
9	1059.50	24	1060.00
10	1059.25	25	1060.17
11	1059.46	26	1058.29
12	1058.04	27	1052.25
13	1057.04	28	1051.04
14	1054.79	29	1056.13
15	1051.04	30	1055.83
		31	1089.58

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: October 1994

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

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
82	941001	S	0.0	B	5	N/A	KE	COND	Reduce reactor power to perform circulating water system heat treatment and condenser water box cleaning.

[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

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

Date		Time	Event
October	01	0001	Unit is in Mode 1, 75% reactor power, 830 Mwe for circulating water heat system heat treatment and condenser water box cleaning.
October	01	1200	Commenced increasing reactor power to 80%.
		1300	Unit is at 80% reactor power.
October	02	0700	Commenced increasing power to 97% from 80%.
		1040	Unit is at 97% reactor power, 1110 Mwe.
October	30	0200	Turned all clocks back 1 hour to conform to Pacific Standard Time.
October	31	2400	Unit is in Mode 1, 97% reactor power, 1105 MWe.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: October 1994

1. Scheduled date for next refueling shutdown.

   Cycle 8 refueling outage is forecast for July 8, 1995.

2. Scheduled date for restart following refueling.

   Restart from Cycle 8 refueling outage is forecast for September 11, 1995.

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

   Unknown at this time for Cycle 8 refueling.

   What will these be?

   NA

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

   NA

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.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: November 8, 1994
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

6. The number of fuel assemblies.

   A. In the core. 217

   B. In the spent fuel storage pool. 710 Total Fuel Assemblies
   592 Unit 3 Spent Fuel Assemblies
   0 Unit 3 New Fuel Assemblies
   118 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).