



Southern California Edison Company

23 PARKER STREET

IRVINE, CALIFORNIA 92718

August 11, 1994

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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 July 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 were made effective.

This letter transmits the July 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,

Enclosures

cc: L. J. Callan, Regional Administrator, 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

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Units 2 and 3
San Onofre Nuclear Generating Station

USNRC Monthly
Operating Report
July 1994

bcc: R. L. Erickson (SDG&E)
F. Yost (Utility Data Institute)
E. K. Aghjayan (City of Anaheim)
S. L. Harris (City of Riverside)
Harold B. Ray
Richard. M. Rosenblum
R. W. Krieger
T. E. Oubre
W. C. Marsh
D. M. Barron
S. M. Hansen
J. M. Fazio
K. A. Slagle
L. D. Brevig
J. Romero
T. J. Vogt
P. D. Myers
R. W. Waldo
M. J. Johnson
J. M. Elliott
CDM File
NLFS Files
ONL Files
AIMS Coordinator
RCTS

REVIEWERS:

R. W. Waldo	*
T. J. Vogt	*
M. P. Short	*
L. A. Wright	*
J. Peattie	*
G. T. Gibson	*
C. E. Williams	*

* Have concurred on
supplemental bcc

NRC MONTHLY OPERATING REPORT

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

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: July 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	744.00	5,087.00	96,024.00
12. Number Of Hours Reactor Was Critical	744.00	5,087.00	73,101.59
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	744.00	5,087.00	71,958.34
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,440,983.00	16,761,416.60	235,335,673.04
17. Gross Electrical Energy Generated (MWH)	818,704.50	5,712,500.50	79,800,288.50
18. Net Electrical Energy Generated (MWH)	779,586.00	5,442,878.00	75,697,576.88
19. Unit Service Factor	100.00%	100.00%	74.94%
20. Unit Availability Factor	100.00%	100.00%	74.94%
21. Unit Capacity Factor (Using MDC Net)	97.93%	100.00%	73.67%
22. Unit Capacity Factor (Using DER Net)	97.93%	100.00%	73.67%
23. Unit Forced Outage Rate	0.00%	0.00%	5.77%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling Shutdown, February 11, 1994, Duration (65 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
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

NA	NA
NA	NA
NA	NA

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH: July 1994

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1056.71</u>
2	<u>1062.04</u>
3	<u>1060.25</u>
4	<u>1061.42</u>
5	<u>1058.88</u>
6	<u>1062.21</u>
7	<u>1067.25</u>
8	<u>1068.88</u>
9	<u>1067.00</u>
10	<u>1064.75</u>
11	<u>1067.38</u>
12	<u>1067.25</u>
13	<u>1064.00</u>
14	<u>1059.33</u>
15	<u>1051.38</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>1059.13</u>
17	<u>1061.00</u>
18	<u>1064.46</u>
19	<u>1069.17</u>
20	<u>1069.38</u>
21	<u>1069.92</u>
22	<u>1069.13</u>
23	<u>1069.29</u>
24	<u>1073.50</u>
25	<u>1071.00</u>
26	<u>1070.83</u>
27	<u>1049.29</u>
28	<u>932.42</u>
29	<u>933.38</u>
30	<u>930.88</u>
31	<u>951.29</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: July 1994DOCKET NO: 50-361UNIT NAME: SONGS - 2

DATE: _____

COMPLETED BY: R. L. KaplanTELEPHONE: (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
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There were no unit shutdowns or reductions in the Average Daily Power Level of more than 20% this reporting period.

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: _____
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

<u>Date</u>		<u>Time</u>	<u>Event</u>
July	01	0001	Unit is in Mode 1, 98% reactor power, 1110 MWe.
July	23	0957	Reduced Turbine load by 50 MWe to raise Tc for Isothermal Temperature Coefficient testing.
		1010	Reactor power is 93.9% power and 1070 MWe for Isothermal Temperature Coefficient testing.
		1025	Reactor restored to 98% power, 1120 MWe at completion of test.
July	27	2002	Reduced reactor power to 90%, 1018 MWe for Third Point Heater Drain Tank pump repair outage.
July	31	2400	Unit is in Mode 1, 93% reactor power, 980 MWe.

REFUELING INFORMATION

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

MONTH: July 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 and an exemption from 10 CFR 50 Appendix J will be requested to permit deferring the Integrated Leakrate Testing.
- C. A proposed change to the Technical Specifications will be requested to revise the allowed Linear Heat Rate from 13.9 to 13.0 kw/ft.
- D. 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.
- E. Proposed change to the Technical Specifications (PCN 431), revising the automatic reset of the low pressurizer pressure bypass, will be revised to simplify the request.
- F. A proposed change to the Technical Specifications will be 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: _____
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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. Integrated Leakrate Testing	Submittal Forecast August 15, 1994
C. Linear Heat Rate	Submittal Forecast Aug. 31, 1994
D. Pressure Instrument Diversity	Submitted July 6, 1994
E. Low Pressurizer Pressure Bypass	Revision Forecast Aug. 31, 1994
F. Control Room Air Cleanup System	Submittal Forecast Aug. 31, 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 be discharged to spent fuel storage pool assuming present capacity.

Approximately 2005 (full off-load capability)

NRC MONTHLY OPERATING REPORT

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

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: July 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	744.00	5,087.00	90,575.00
12. Number Of Hours Reactor Was Critical	744.00	5,087.00	71,013.45
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	744.00	5,073.60	69,370.49
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,440,821.97	16,434,867.92	223,106,657.63
17. Gross Electrical Energy Generated (MWH)	825,430.00	5,614,392.50	75,757,799.50
18. Net Electrical Energy Generated (MWH)	781,536.00	5,316,685.00	71,579,723.94
19. Unit Service Factor	100.00%	99.74%	76.59%
20. Unit Availability Factor	100.00%	99.74%	76.59%
21. Unit Capacity Factor (Using MDC Net)	97.26%	96.77%	73.17%
22. Unit Capacity Factor (Using DER Net)	97.26%	96.77%	73.17%
23. Unit Forced Outage Rate	0.00%	0.00%	6.41%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None</u>			
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
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

NA	NA
NA	NA
NA	NA

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH: July 1994DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1049.79</u>
2	<u>1048.50</u>
3	<u>1045.79</u>
4	<u>1049.25</u>
5	<u>1046.83</u>
6	<u>1048.38</u>
7	<u>1055.00</u>
8	<u>1055.25</u>
9	<u>887.58</u>
10	<u>1046.13</u>
11	<u>1062.08</u>
12	<u>1064.42</u>
13	<u>1062.21</u>
14	<u>1058.38</u>
15	<u>1054.63</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>1057.00</u>
17	<u>1057.50</u>
18	<u>1062.50</u>
19	<u>1065.63</u>
20	<u>1065.29</u>
21	<u>1063.21</u>
22	<u>1050.92</u>
23	<u>1062.00</u>
24	<u>1062.42</u>
25	<u>1062.00</u>
26	<u>1061.04</u>
27	<u>1056.29</u>
28	<u>1052.29</u>
29	<u>1050.46</u>
30	<u>1050.58</u>
31	<u>1050.67</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: July 1994DOCKET NO: 50-362UNIT NAME: SONGS - 3

DATE: _____

COMPLETED BY: R. L. KaplanTELEPHONE: (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.

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: 50-362
UNIT NAME: SONGS - 3
DATE: _____
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 358-6834

<u>Date</u>		<u>Time</u>	<u>Event</u>
July	01	0001	Unit is in Mode 1, 96.9% reactor power, 1097 MWe.
July	09	0734	Commenced lowering reactor power to 80% for circulating water system heat treatment.
	09	0955	Unit at 80% reactor power, 865 MWe.
July	10	0035	Commenced raising reactor power to full power after completion of circulating water system heat treatment.
	10	0417	Unit at 97% reactor power, 1111 MWe.
July	31	2400	Unit is in Mode 1, 97% reactor power, 1110 MWe.

REFUELING INFORMATION

DOCKET NO:	<u>50-362</u>
UNIT NAME:	<u>SONGS - 3</u>
DATE:	<u></u>
COMPLETED BY:	<u>R. L. Kaplan</u>
TELEPHONE:	<u>(714) 368-6834</u>

MONTH: July 1994

1. Scheduled date for next refueling shutdown.

Cycle 8 refueling outage is forecast for June 4, 1995.

2. Scheduled date for restart following refueling.

Restart from Cycle 8 refueling outage is forecast for August 6, 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: _____
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).