



Southern California Edison Company

23 PARKER STREET
IRVINE, CALIFORNIA 92718

May 12, 1995

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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 April 1995
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 April 1995 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
J. Dyer, 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
2 & 3

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

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: April 1995
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	<u>719.00</u>	<u>2,879.00</u>	<u>102,576.00</u>
12. Number Of Hours Reactor Was Critical	<u>54.30</u>	<u>1,038.65</u>	<u>77,813.24</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>0.00</u>	<u>984.32</u>	<u>76,615.66</u>
15. Unit Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
16. Gross Thermal Energy Generated (MWH)	<u>0.00</u>	<u>3,091,911.80</u>	<u>250,469,767.64</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.00</u>	<u>1,071,360.00</u>	<u>84,922,859.50</u>
18. Net Electrical Energy Generated (MWH)	<u>(14,101.00)</u>	<u>999,461.04</u>	<u>80,563,555.91</u>
19. Unit Service Factor	<u>0.00%</u>	<u>34.19%</u>	<u>74.69%</u>
20. Unit Availability Factor	<u>0.00%</u>	<u>34.19%</u>	<u>74.69%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.00%</u>	<u>32.44%</u>	<u>73.40%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.00%</u>	<u>32.44%</u>	<u>73.40%</u>
23. Unit Forced Outage Rate	<u>0.00%</u>	<u>0.00%</u>	<u>5.43%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shutdown At End Of Report Period, Estimated Date of Startup: May 16, 1995
26. Units In Test Status (Prior To Commercial Operation): Forecast Achieved

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

<u>NA</u>	<u>NA</u>
<u>NA</u>	<u>NA</u>
<u>NA</u>	<u>NA</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-361
 UNIT NAME: SONGS - 2
 DATE: May 12, 1995
 COMPLETED BY: R. L. Kaplan
 TELEPHONE: (714) 368-6834

MONTH: April 1995

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>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

16	<u>0.00</u>
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>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: April 1995DOCKET NO: 50-361UNIT NAME: SONGS - 2DATE: May 12, 1995COMPLETED 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
88	950210	S	719	C	1	N/A	N/A	N/A	N/A

Note: Refueling shutdown continued from previous month.

¹F-Forced
S-Scheduled²Reason:

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 805-1984⁵IEEE Std 803A-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

<u>Date</u>	<u>Time</u>	<u>Event</u>
April	01 0001	Unit is in Mode 5, shutdown cooling in service with RCS at 105 degrees.
April	02 0100	All clocks adjusted ahead one hour to conform to Pacific Daylight Saving Time.
April	06 0050	Unit entered Mode 4, RCS at 200 degrees.
April	07 0346	Commenced cooldown to Mode 5 to investigate cause of RCS inventory loss to Refueling Water Storage Tank.
	0609	Unit entered Mode 5.
April	08 1809	Unit entered Mode 4.
April	14 1122	Unit entered Mode 3.
April	17 1755	Unit entered Mode 2.
	1842	Reactor is critical.
April	20 0100	Reactor is manually tripped from .1% power, unit is in Mode 3.
	1010	Commenced cooldown to Mode 5 to repair leaks in steam generator 2-ME-088 and heat exchanger on reactor coolant pump 2-MP-003.
	1545	Unit entered Mode 4.
April	21 1015	Unit entered Mode 5.
April	23 0410	Unit entered a reduced inventory condition.
April	28 1850	Unit exited reduced inventory condition
April	30 2400	Mode 5, RCS Tcold 180 degrees, Train B shutdown cooling in service, reactor coolant pumps 2-MP-002 and 3 in service.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: April 1995

1. Scheduled date for next refueling shutdown.

Cycle 8 refueling outage began February 11, 1995.

2. Scheduled date for restart following refueling.

Restart from Cycle 8 refueling outage is forecast for May 16, 1995.

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

No

What will these be?

N/A

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

N/A

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: 50-361
UNIT NAME: SONGS - 2
DATE: May 12, 1995
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. 770 Total Fuel Assemblies
700 Unit 2 Spent Fuel Assemblies
0 Unit 2 New Fuel Assemblies
70 Unit 1 Spent Fuel Assemblies

C. In the New Fuel Storage Racks Zero Unit 2 New 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
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3**

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: April 1995
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	<u>719.00</u>	<u>2,879.00</u>	<u>97,127.00</u>
12. Number Of Hours Reactor Was Critical	<u>719.00</u>	<u>2,879.00</u>	<u>77,565.45</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>719.00</u>	<u>2,879.00</u>	<u>75,922.49</u>
15. Unit Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,359,461.23</u>	<u>9,356,484.21</u>	<u>244,504,530.20</u>
17. Gross Electrical Energy Generated (MWH)	<u>794,774.50</u>	<u>3,189,225.00</u>	<u>83,021,901.50</u>
18. Net Electrical Energy Generated (MWH)	<u>754,614.00</u>	<u>3,022,676.00</u>	<u>78,463,586.94</u>
19. Unit Service Factor	<u>100.00%</u>	<u>100.00%</u>	<u>78.17%</u>
20. Unit Availability Factor	<u>100.00%</u>	<u>100.00%</u>	<u>78.17%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.18%</u>	<u>97.21%</u>	<u>74.80%</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.18%</u>	<u>97.21%</u>	<u>74.80%</u>
23. Unit Forced Outage Rate	<u>0.00%</u>	<u>0.00%</u>	<u>5.89%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Shutdown, July 8, 1995, Duration (71 days)</u>			
25. If Shutdown At End Of Report Period, Estimated Date of Startup:		<u>NA</u>	
26. Units In Test Status (Prior To Commercial Operation):	<u>Forecast</u>	<u>Achieved</u>	
INITIAL CRITICALITY	<u>NA</u>	<u>NA</u>	
INITIAL ELECTRICITY	<u>NA</u>	<u>NA</u>	
COMMERCIAL OPERATION	<u>NA</u>	<u>NA</u>	

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: April 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1053.75
2	949.39
3	1044.13
4	1054.38
5	1053.96
6	1054.17
7	1055.67
8	1056.33
9	1056.46
10	1057.67
11	1058.08
12	1057.58
13	1057.13
14	1052.38
15	1048.29

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
16	1054.25
17	1055.75
18	1056.08
19	1055.71
20	1056.04
21	1054.83
22	1056.75
23	1055.96
24	1057.08
25	1055.29
26	1052.46
27	1052.04
28	1051.33
29	1051.92
30	1006.96

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: April 1995DOCKET NO: 50-362UNIT NAME: SONGS - 3DATE: May 12, 1995COMPLETED 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: 50-362
UNIT NAME: SONGS - 3
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

<u>Date</u>		<u>Time</u>	<u>Event</u>
April	01	0001	Unit is in Mode 1, 96.5% reactor power, 1104 Mwe.
April	02	0100	All clocks adjusted ahead one hour to conform to Pacific Daylight Saving Time.
		1000	Commenced power reduction to 80% for circulating water system heat treatment
		1151	Reactor power at 80% for heat treatment
April	03	0020	Commenced raising reactor power to 97% at completion of circulating water system heat treatment.
April	30	2400	Unit is in Mode 1, 96.5% reactor power, 1100 MWe.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 368-6834

MONTH: April 1995

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 16, 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 to allow a 3.0.4 exception for entering Modes 5 and 6 with the Control Room Emergency Air Cleanup System inoperable.
- B. A proposed change to the Technical Specifications has been requested to update the Unit 3 pressure-temperature curves and the low temperature overpressure protection enable temperature.
- C. A proposed change to the Technical Specifications has been requested to revise the allowed Linear Heat Transfer Rate from 13.9 to 13.0 kw/ft.
- D. A proposed change to the Technical Specifications, revising the automatic reset of the low pressurizer pressure bypass, has been revised to simplify the request.
4. Scheduled date for submitting proposed licensing action and supporting information.
- | | |
|------------------------------------|--------------------------------------|
| A. Control Room Air Cleanup System | Submitted August 26, 1994 |
| B. Pressure-Temperature Curves | Revision submitted July 6, 1994 |
| C. Linear Heat Rate | Submitted September 16, 1994 |
| D. Low Pressurizer Pressure Bypass | Revision submitted September 6, 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.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: May 12, 1995
COMPLETED BY: R. L. Kaplan
TELEPHONE: (714) 363-5834

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
Zero 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).