



Southern California Edison Company

P. O. BOX 128

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July 12, 1996

WALTER C. MARSH
MANAGER OF NUCLEAR REGULATORY AFFAIRS

TELEPHONE
(714) 368-7501

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

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
Monthly Operating Reports for June 1996
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 June 1996 Monthly Operating Reports for Units 2 and 3. There were no challenges to safety valves, no major changes to the Units 2 and 3 radioactive waste treatment systems, and no changes to the ODCM 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
J. E. 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: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 2
2. Reporting Period: June 1996
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	4,367.00	112,824.00
12. Number Of Hours Reactor Was Critical	720.00	4,367.00	87,755.12
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	720.00	4,367.00	86,197.31
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	2,440,983.00	14,564,531.90	282,202,546.65
17. Gross Electrical Energy Generated (MWH)	808,024.50	4,924,218.50	95,626,101.00
18. Net Electrical Energy Generated (MWH)	769,527.13	4,689,837.42	90,732,429.33
19. Unit Service Factor	100.00%	100.00%	76.40%
20. Unit Availability Factor	100.00%	100.00%	76.40%
21. Unit Capacity Factor (Using MDC Net)	99.89%	100.37%	75.16%
22. Unit Capacity Factor (Using DER Net)	99.89%	100.37%	75.16%
23. Unit Forced Outage Rate	0.00%	0.00%	4.99%
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: N/A
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: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

MONTH: June 1996

DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1136.08</u>	16	<u>1072.58</u>
2	<u>1091.74</u>	17	<u>1073.83</u>
3	<u>1090.95</u>	18	<u>1075.99</u>
4	<u>1088.45</u>	19	<u>1065.33</u>
5	<u>1086.24</u>	20	<u>1057.74</u>
6	<u>1083.45</u>	21	<u>1050.66</u>
7	<u>1080.37</u>	22	<u>1027.08</u>
8	<u>1079.12</u>	23	<u>842.58</u>
9	<u>1081.24</u>	24	<u>1074.78</u>
10	<u>1080.03</u>	25	<u>1079.20</u>
11	<u>1074.78</u>	26	<u>1082.37</u>
12	<u>1072.66</u>	27	<u>1082.70</u>
13	<u>1070.95</u>	28	<u>1091.24</u>
14	<u>1072.24</u>	29	<u>1092.08</u>
15	<u>1069.95</u>	30	<u>1037.24</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-361UNIT NAME: SONGS - 2REPORT MONTH: March 1996DATE: July 12, 1996COMPLETED BY: C. E. WilliamsTELEPHONE: (714) 368-6707

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: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

<u>Date</u>	<u>Time</u>	<u>Event</u>
June	01 0000	Unit is in Mode 1, reactor power at 99.9%, 1140 MWe.
June	19 1126	Turbine load reduced to 1109 MWe to lower circulating water system temperature difference.
June	22 2200	Commenced downpower to 75% reactor power to clean condenser waterbox and perform low pressure turbine valve maintenance.
June	23 0040	Reactor power at 75%, 750 MWe.
	1435	Commenced power increase following condenser waterbox cleaning and completion of low pressure turbine valve maintenance.
	2150	Reactor power at 99.2%, 1120 MWe.
June	30 0734	Turbine load reduced to 1127 MWe to lower circulating water system temperature difference.
	1355	Unit returned to full power, reactor power 99.7%, 1137 MWe.
	2400	Unit is in Mode 1, reactor power 99.7%, 1140 MWe.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

MONTH: June 1996

1. Scheduled date for next refueling shutdown:

Cycle 9 refueling outage is forecast for November 30, 1996.

2. Scheduled date for restart following refueling:

Restart from Cycle 9 refueling outage is forecast for February 3, 1997.

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

Yes.

What will these be?

1. Increase in Low Pressure Safety Injection AOT
2. Increase in fuel enrichment to 4.8%.
3. Revision to test interval of load sequencing relays.
4. Revision to Containment Isolation Valve action statement.
5. Appendix J Option B Technical Specification.
6. Increase in Safety Injection Tank boron concentration.

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

1. PCN 452 Low Pressure Safety Injection AOT	Submitted 11/8/95
2. PCN 449 Enrichment Increase	Submitted 12/6/95
3. PCN 454 Load Sequencing Relays	Submitted 5/29/96
4. PCN 460 Containment Isolation Valves Supplement	Submitted 4/11/96
5. PCN 361 Appendix J Option B	Forecast 8/31/96
6. PCN 465 Safety Injection Tank Boron	Submitted 5/30/96
	Submitted 5/29/96

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.

Increase in fuel enrichment.

REFUELING INFORMATION

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

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.

February 2006 (assuming 22 month fuel cycles for all future cycles, and unit 1 fuel remains where it is currently located).

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

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: June 1996
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>720.00</u>	<u>4,367.00</u>	<u>107,375.00</u>
12. Number Of Hours Reactor Was Critical	<u>720.00</u>	<u>4,367.00</u>	<u>86,303.70</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>720.00</u>	<u>4,367.00</u>	<u>84,586.64</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>2,359,616.90</u>	<u>14,483,165.80</u>	<u>272,582,665.20</u>
17. Gross Electrical Energy Generated (MWH)	<u>807,256.00</u>	<u>4,907,845.00</u>	<u>92,667,315.00</u>
18. Net Electrical Energy Generated (MWH)	<u>765,797.13</u>	<u>4,658,653.44</u>	<u>87,598,017.00</u>
19. Unit Service Factor	<u>100.00%</u>	<u>100.00%</u>	<u>78.78%</u>
20. Unit Availability Factor	<u>100.00%</u>	<u>100.00%</u>	<u>78.78%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>98.48%</u>	<u>98.78%</u>	<u>75.54%</u>
22. Unit Capacity Factor (Using DER Net)	<u>98.48%</u>	<u>98.78%</u>	<u>75.54%</u>
23. Unit Forced Outage Rate	<u>0.00%</u>	<u>0.00%</u>	<u>5.32%</u>
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: <u>NA</u>			
26. Units In Test Status (Prior To Commercial Operation):	Forecast	Achieved	

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: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

MONTH: June 1996

DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)	DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
1	<u>1125.28</u>	16	<u>1065.95</u>
2	<u>1080.12</u>	17	<u>1069.74</u>
3	<u>1081.45</u>	18	<u>1072.16</u>
4	<u>1080.20</u>	19	<u>1069.20</u>
5	<u>1077.45</u>	20	<u>1062.99</u>
6	<u>1074.41</u>	21	<u>1062.03</u>
7	<u>1051.03</u>	22	<u>1062.53</u>
8	<u>1042.41</u>	23	<u>1064.95</u>
9	<u>1068.78</u>	24	<u>1063.58</u>
10	<u>1071.53</u>	25	<u>1067.08</u>
11	<u>1067.70</u>	26	<u>1070.24</u>
12	<u>1068.08</u>	27	<u>1077.95</u>
13	<u>1065.99</u>	28	<u>1084.78</u>
14	<u>1064.70</u>	29	<u>918.53</u>
15	<u>1058.78</u>	30	<u>1018.58</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: June 1996DOCKET NO: 50-362UNIT NAME: SONGS - 3DATE: July 12, 1996COMPLETED BY: C. E. WilliamsTELEPHONE: (714) 368-6707

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: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

<u>Date</u>		<u>Time</u>	<u>Event</u>
June	01	0000	Unit in Mode 1, reactor power at 99.1%, 1129 MWe.
June	07	0610	Turbine load reduced to 1115 MWe to bypass fourth and fifth point heaters for repair of fourth point heater tube leak.
		1510	Reactor power at 98.3, 1092 MWe, fourth point heater cleared for repairs.
June	09	0635	Reactor power at 99.4%, 1129 MWe. Fourth point heater repaired and fourth and fifth point heaters returned to service.
June	29	0838	Commenced power reduction to 80% to perform heat treatment of circulating water system intake.
		1100	Reactor power 80%, 875 MWe.
June	30	0136	Commenced raising reactor power to full power following completion of heat treatment.
		0458	Reactor at 99.3%, 1138 MWe.
		2400	Mode 1, Reactor at 99.3%, 1135 MWe.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

MONTH: June 1996

1. Scheduled date for next refueling shutdown.

Cycle 9 refueling outage is forecast for April 5, 1997.

2. Scheduled date for restart following refueling.

Restart from Cycle 9 refueling outage is forecast for June 9, 1997.

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

Yes

What will these be?

1. Increase in Diesel Generator allowed outage time (AOT)
2. Implementation of barrier control program.

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

1. PCN 453 Diesel Generator AOT
2. PCN 467 Barrier Control Program

Submitted 11/2/95
Submitted 5/09/96

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.

Increase in fuel enrichment.

REFUELING INFORMATION

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: July 12, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

6. The number of fuel assemblies.

A. In the core. 217

B. In the spent fuel storage pool. 818 Total Fuel Assemblies
700 Unit 3 Spent Fuel Assemblies
0 Unit 3 New Fuel Assemblies
118 Unit 1 Spent Fuel Assemblies

C. In the New Fuel Storage Racks Zero Unit 3 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.

May 2006 (full off-load capability assuming assuming 22 month fuel cycles for all future cycles, and unit 1 fuel remains where it is currently located).