

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-361
 UNIT SONGS - 2
 DATE May 15, 1984
 COMPLETED BY L. I. Mayweather
 TELEPHONE (714) 492-7700
 Ext. 55223

OPERATING STATUS

1. Unit Name: San Geronimo Nuclear Generating Station, Unit 2
2. Reporting Period: April 1984
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	719	2,903	6,408
12. Number Of Hours Reactor Was Critical	719	2,022.4	4,635.1
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	719	1,948.2	4,509.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,387,071	6,289,695	14,783,230
17. Gross Electrical Energy Generated (MWH)	812,690.5	2,147,271.5	5,059,236.5
18. Net Electrical Energy Generated (MWH)	776,077	2,027,789	4,803,434
19. Unit Service Factor	100	67.11	70.38
20. Unit Availability Factor	100	67.11	70.38
21. Unit Capacity Factor (Using MDC Net)	100.88	65.28	70.06
22. Unit Capacity Factor (Using DER Net)	100.88	65.28	70.06
23. Unit Forced Outage Rate	0	3.36	5.40
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling, September 1984, 2 month duration</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: NA
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>

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-361
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 TELEPHONE (714) 492-7700
 Ext. 56223

MONTH April 1984

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1072.08</u>
2	<u>1103.75</u>
3	<u>1112.71</u>
4	<u>1119.38</u>
5	<u>1107.77</u>
6	<u>1091.94</u>
7	<u>1107.90</u>
8	<u>1107.31</u>
9	<u>1104.69</u>
10	<u>1109.15</u>
11	<u>1102.58</u>
12	<u>1113.50</u>
13	<u>1117.08</u>
14	<u>1081.67</u>
15	<u>1115.88</u>
16	<u>1106.88</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1095.21</u>
18	<u>991.63</u>
19	<u>1117.50</u>
20	<u>1091.21</u>
21	<u>1087.04</u>
22	<u>1108.15</u>
23	<u>1107.48</u>
24	<u>1115.50</u>
25	<u>1095.40</u>
26	<u>1100.15</u>
27	<u>1098.83</u>
28	<u>763.35</u>
29	<u>730.73</u>
30	<u>1108.38</u>
31	<u>NA</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL, 1984

DOCKET NO. 50-361
 UNIT NAME SONGS - 2
 DATE May 15, 1984
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No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁴	Cause & Corrective Action to Prevent Recurrence
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

<p>¹ F-Forced S-Scheduled</p>	<p>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)</p>	<p>³ Method: 1-Manual 2-Manual Scram. 3-Automatic Scram. 4-Continuation from Previous Month 5-Reduction of 20% or greater in the past 24 hours 9-Other (Explain)</p>	<p>⁴ IEEE Std 803-1983</p>
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SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-361
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<u>Date/Time</u>	<u>Event</u>
APRIL 1, 0001	Unit is in Mode 1 at 100% reactor power, turbine load is 1158 MWe gross. Full power operations are planned.
APRIL 1, 0950	Decreased reactor power to 93% and turbine load to 1070 MWe gross due to turbine throttle valve UA-2200C failing closed.
APRIL 1, 2039	Increased reactor power to 100% following repair of relay in the unitized actuator of UA-2200C.
APRIL 6, 1900	Decreased reactor power to 90% to perform turbine stop and governor valve testing.
APRIL 6, 2320	Increased reactor power to 100% following completion of turbine stop and governor valve testing.
APRIL 13, 0136	Decreased turbine load to 1050 MWe gross to perform turbine stop and governor valve testing.
APRIL 13, 0515	Increased reactor power to 100% following completion of turbine stop and governor valve testing.
APRIL 20, 1040	Decreased reactor power to 90% to perform turbine stop and governor valve testing.
APRIL 20, 1313	Increased reactor power to 100% following completion of turbine stop and governor valve testing.
APRIL 21, 1224	Decreased reactor power to 90% due to low steam flow rate when HP Stop and Governor Valves 2UV-2200H and 2UV-2200G closed due to overheating in turbine governor control cabinets.
APRIL 21, 1251	Reopened 2UV-2200H and 2UV-2200G following additional cooling in the turbine governor control cabinets. Raised reactor power to 100%.
APRIL 28, 0105	Decreased reactor power to 80% to perform heat treatment.
APRIL 28, 1600	Commenced turbine stop and governor valve testing.

<u>Date/Time</u>		<u>Event</u>
APRIL 28,	1835	Decreased reactor power to 60% for monthly CEA exercises.
APRIL 29,	2300	Increased reactor power to 100% and turbine load to 1155 MWe gross.
APRIL 30,	2350	Unit is in Mode 1 at 100% reactor power, turbine load is 1152 MWe gross. Full power operations are planned.

REFUELING INFORMATION

DOCKET NO. 50-361

UNIT SONGS - 2

DATE May 15, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56223

1. Scheduled date for next refueling shutdown.

September 1984

2. Scheduled date for restart following refueling.

December 1984

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

Yes

What will these be?

Proposed Technical Specification changes will be submitted to the NRC for Shutdown Cooling System Modifications (Proposed Change Number (PCN) 126), for the reload analysis (PCN 147-153), for inclusion of heated junction thermocouples (PCN 128), and for Steam Generator tube wall thinning criteria (PCN 141).

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

Not yet determined.

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.

Not yet determined.

6. The number of fuel assemblies.

a) In the core. 217

b) In the spent fuel storage pool. 0

7. Licensed spent fuel storage capacity. 800

Intended change in spent fuel storage capacity. NA

8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

Approximately 1997.

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-362
 UNIT NAME SONGS - 3
 DATE May 15, 1984
 COMPLETED BY L. I. Mayweather
 TELEPHONE (714) 492-7700
Ext. 56223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 3
2. Reporting Period: April 1984
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	719	719	719
12. Number Of Hours Reactor Was Critical	719	719	719
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	674.2	674.2	674.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,185,194	2,185,194	2,185,194
17. Gross Electrical Energy Generated (MWH)	730,554.5	730,554.5	730,554.5
18. Net Electrical Energy Generated (MWH)	693,292	693,292	693,292
19. Unit Service Factor	93.77	93.77	93.77
20. Unit Availability Factor	93.77	93.77	93.77
21. Unit Capacity Factor (Using MDC Net)	89.28	89.28	89.28
22. Unit Capacity Factor (Using DER Net)	89.28	89.28	89.28
23. Unit Forced Outage Rate	0	0	0
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>NA</u>		

25. If Shut Down 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

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

* These numbers have been revised to reflect updated Station auxiliary loads.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-362

UNIT SONGS - 3

DATE May 15, 1984

COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56223

MONTH April 1984

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>429.38</u>
4	<u>703.75</u>
5	<u>808.88</u>
6	<u>1038.60</u>
7	<u>1080.42</u>
8	<u>1094.19</u>
9	<u>1144.90</u>
10	<u>1163.56</u>
11	<u>1086.13</u>
12	<u>1100.63</u>
13	<u>1091.21</u>
14	<u>1095.67</u>
15	<u>1064.69</u>
16	<u>1096.06</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1090.94</u>
18	<u>1082.94</u>
19	<u>1107.29</u>
20	<u>1080.29</u>
21	<u>1081.94</u>
22	<u>1102.73</u>
23	<u>1091.79</u>
24	<u>1110.96</u>
25	<u>1100.94</u>
26	<u>1101.42</u>
27	<u>915.29</u>
28	<u>1105.23</u>
29	<u>1061.25</u>
30	<u>1117.38</u>
31	<u>NA</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH APRIL, 1984

DOCKET NO. 50-362
 UNIT NAME SONGS - 3
 DATE May 15, 1984
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 TELEPHONE (714) 492-7700
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No.	Date	Type ¹	Duration (hours)	Reason ²	Method of Shutting Down ³ Reactor	LER No.	System ⁴ Code	Component ⁴ Code	Cause & Corrective Action to Prevent Recurrence
3	840330	S	44.8	B	4	NA	NA	NA	Continuation of scheduled outage

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 of 20%
 or greater in the
 past 24 hours
 9-Other (Explain)

⁴ IEEE Std 803-1983

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-362

UNIT SONGS - 3

DATE May 15, 1984

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TELEPHONE (714) 492-7700
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<u>Date/Time</u>	<u>Event</u>
APRIL 1, 0001	Unit is in Mode 2 and holding at 1% reactor power to allow the purification system to reduce high RCS iodine levels.
APRIL 2, 1800	Entered Mode 1.
APRIL 2, 2050	Synchronized generator and applied block load.
APRIL 3, 0900	Increased reactor power to 60%.
APRIL 3, 1145	Reduced reactor power to 50% due to a saltwater leak in Circulating Water Pump P-116 water box.
APRIL 4, 0410	Commenced reactor power increase to 80% following unsuccessful attempts at locating leak in P-116 water box.
APRIL 5, 2030	Completed heat treatment. Helium leak checking of P-116 water box did not reveal any leaks. Ten tubes were plugged as a preventative measure and no conductivity increase was noted. Commenced reactor power increase to 100%.
APRIL 5, 2045	Completed turbine stop and governor valve testing.
APRIL 6, 0553	Reactor power at 100% and turbine load at 1130 MWe gross.
APRIL 13, 1810	Decreased reactor power to 90% and turbine load to 1050 MWe gross to perform turbine stop and governor valve testing.
APRIL 13, 2050	Increased reactor power to 100% and turbine load to 1150 MWe gross following completion of turbine stop and governor valve testing.
APRIL 16, 0615	RCS leak rate surveillance performed indicating an unidentified leak rate of 1.1 GPM entered Technical Specification Action Statement requiring Mode 3 entry within six (6) hours if leak is not reduced to less than 1 GPM.

<u>Date/Time</u>	<u>Event</u>
APRIL 16, 0954	RCS unidentified leak rate at .286 GPM following isolation of CVCS. CVCS subsequently returned to service.
APRIL 20, 1325	Decreased reactor power to 90% and turbine load to 1045 MWe gross to perform turbine stop and governor valve testing.
APRIL 20, 1624	Increased reactor power to 100% and turbine load to 1137 MWe gross following satisfactory completion of turbine stop and governor valve testing.
APRIL 26, 2358	No. 3 HP stop valve 3UV2200D failed shut due to a mismatch between actual valve position and governor generated position (Mod F failure). The resulting power transient reduced reactor power to 95% and turbine load to 1040 MWe gross.
APRIL 27, 0700	No. 2 HP governor valve 3UV2200F closed resulting in a reduction in reactor power to 81% and turbine load to 875 MWe gross.
APRIL 27, 1245	Returned 3UV2200F to service.
APRIL 27, 1734	Returned 3UV2200D to service following replacement of worn "U" ring in relief valve.
APRIL 30, 2359	Unit is in Mode 1 at 100% reactor power, turbine load is 1152 MWe gross.

REFUELING INFORMATION

DOCKET NO. 50-362

UNIT SONGS - 3

DATE May 15, 1984

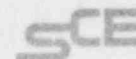
COMPLETED BY L. I. Mayweather

TELEPHONE (714) 492-7700
Ext. 56223

1. Scheduled date for next refueling shutdown.
Not yet determined.
2. Scheduled date for restart following refueling.
Not yet determined.
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Not yet determined.
What will these be?
Not yet determined.
4. Scheduled date for submitting proposed licensing action and supporting information.
Not yet determined.
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.
Not yet determined.
6. The number of fuel assemblies.
 - a) In the core. 217
 - b) In the spent fuel storage pool. 0
7. Licensed spent fuel storage capacity. 800
Intended change in spent fuel storage capacity. NA
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

NA

Southern California Edison Company



SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

TELEPHONE
(714) 492-7700

May 15, 1984

Director
Office of Management Information and
Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

Subject: Docket Nos. 50-361/50-362
Monthly Operating Reports for April 1984
San Onofre Nuclear Generating Station, Units 2 and 3

Enclosed are the Monthly Operating Reports as required by Section 6.9.1.10 of Appendix A, Technical Specifications to Facility Operating Licenses NPF-10 and NPF-15 for San Onofre Nuclear Generating Station, Units 2 and 3, respectively. The report for Unit 3 reflects rezeroing of value based on a commercial operation of April 1, 1984 in accordance with NUREG-0620.

Please contact us if we can be of further assistance.

Sincerely,

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)
A. E. Chaffee (USNRC Resident Inspector, Units 1, 2 and 3)
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

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