

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-206
UNIT NAME SONGS - 1
DATE April 14, 1987
COMPLETED BY E. R. Siacor
TELEPHONE (714) 368-6223

OPERATING STATUS

1. Unit Name: San Onofre Nuclear Generating Station, Unit 1
 2. Reporting Period: March 1987
 3. Licensed Thermal Power (MWt): 1347
 4. Nameplate Rating (Gross MWe): 456
 5. Design Electrical Rating (Net MWe): 436
 6. Maximum Dependable Capacity (Gross MWe): 456
 7. Maximum Dependable Capacity (Net MWe): 436
 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): 390
 10. Reasons For Restrictions, If Any: Self-imposed power level limit to control steam generator tube corrosion.
- | | This Month | Yr.-to-Date | Cumulative |
|---|------------|--------------|----------------|
| 11. Hours In Reporting Period | 744.00 | 2,160.00 | 173,504.00 |
| 12. Number Of Hours Reactor Was Critical | 684.90 | 2,100.90 | 101,179.52 |
| 13. Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. Hours Generator On-Line | 674.57 | 2,090.57 | 97,193.85 |
| 15. Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 16. Gross Thermal Energy Generated (MWH) | 825,764.83 | 2,551,101.19 | 122,857,010.05 |
| 17. Gross Electrical Energy Generated (MWH) | 274,200.00 | 843,000.00 | 41,636,196.38 |
| 18. Net Electrical Energy Generated (MWH) | 257,386.00 | 793,153.00 | 39,307,315.00 |
| 19. Unit Service Factor | 90.67% | 96.79% | 56.02% |
| 20. Unit Availability Factor | 90.67% | 96.79% | 56.02% |
| 21. Unit Capacity Factor (Using MDC Net) | 79.35% | 84.22% | 51.96% |
| 22. Unit Capacity Factor (Using DER Net) | 79.35% | 84.22% | 51.96% |
| 23. Unit Forced Outage Rate | 9.33% | 3.21% | 20.90% |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Mid-Cycle outage-May 8, 1987, 42-day duration | | | |
| 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 | |

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AVERAGE DAILY UNIT POWER LEVEL

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MONTH: March 1987

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|
| 1 | 389.58 |
| 2 | 389.04 |
| 3 | 389.88 |
| 4 | 388.96 |
| 5 | 388.67 |
| 6 | 387.63 |
| 7 | 387.92 |
| 8 | 388.29 |
| 9 | 387.58 |
| 10 | 160.79 |
| 11 | 0.00 |
| 12 | 0.00 |
| 13 | 117.17 |
| 14 | 382.63 |
| 15 | 384.58 |
| 16 | 388.04 |

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|
| 17 | 387.63 |
| 18 | 388.04 |
| 19 | 387.79 |
| 20 | 388.13 |
| 21 | 387.08 |
| 22 | 389.17 |
| 23 | 389.29 |
| 24 | 388.13 |
| 25 | 388.04 |
| 26 | 387.75 |
| 27 | 387.58 |
| 28 | 387.71 |
| 29 | 387.42 |
| 30 | 387.50 |
| 31 | 388.25 |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MARCH 1987

DOCKET NO. 50-206

UNIT NAME SONGS - 1

DATE April 14, 1987

COMPLETED BY E. R. Siacor

TELEPHONE (714) 368-6223

| No. | Date | 1 Type | Duration (Hours) | 2 Reason | Method of Shutting Down 3 Reactor | LER No. | System 4 Code | Component 5 Code | Cause & Corrective Action to Prevent Recurrence |
|-----|--------|-----------|---------------------|-------------|---|------------|---------------------|------------------------|---|
| 109 | 870310 | F | 69.43 | B | 3 | 87-003 | TL | EXC | The reactor tripped from 92% power during routine main generator exciter brush replacement due to a loss of generator field. Loss of generator field was due to an electrical short resulting from a brush being inadvertently dropped into the exciter commutator assembly. Although the immediate cause was accidental dropping of the brush, inadequate commutator enclosure lighting was a contributing factor. As corrective action, enhancements to the commutator enclosure lighting have been made. Additionally, this incident is being discussed with all electricians who may be involved with similar work. |

| | | | | |
|------------------------------|--|---|-------------------------|--------------------------|
| 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 6-Other (Explain) | 4 IEEE Std. 805-1984 | 5 IEEE Std. 803A-1983 |
|------------------------------|--|---|-------------------------|--------------------------|

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| | |
|--------------|----------------|
| DOCKET | 50-206 |
| UNIT | SONGS - 1 |
| DATE | April 14, 1987 |
| COMPLETED BY | E. R. Siacor |
| TELEPHONE | (714) 368-6223 |

| <u>DATE</u> | <u>TIME</u> | <u>EVENT</u> |
|-------------|-------------|--|
| March 1 | 0001 | The Unit is in Mode 1 at 92% reactor power. Turbine load at 410 MWe gross. |
| March 10 | 1024 | The reactor tripped from 92% power during routine main generator exciter brush replacement due to a loss of generator field. Loss of generator field was due to an electrical short resulting from a brush being inadvertently dropped into the exciter commutator assembly. Entered Mode 3. |
| March 12 | 2129 | Entered Mode 2 following inspection and repairs to the commutator assembly. |
| | 2130 | Reactor made critical. |
| March 13 | 0749 | Entered Mode 1. |
| | 0750 | Unit synchronized to the grid. Reactor power increase is continuing. |
| March 31 | 2400 | Unit is in Mode 1 at 92% reactor power. Turbine load at 409 MWe gross. |

REFUELING INFORMATION

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MONTH: March 1987

1. Scheduled date for next refueling shutdown.

June 1988

2. Scheduled date for restart following refueling.

September 1988

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.

None

6. The number of fuel assemblies.

a) In the core. 157

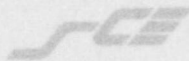
b) In the spent fuel storage pool. 146

7. Licensed spent fuel storage capacity. 216

Intended change in spent fuel storage capacity. Under review

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

June 1988



Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

H. E. MORGAN
STATION MANAGER

April 14, 1987

TELEPHONE
(714) 368-6241

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

Subject: Docket No. 50-206
Monthly Operating Report for March 1987
San Onofre Nuclear Generating Station, Unit 1

Enclosed is the Monthly Operating Report as required by Section 6.9.1.10 of Appendix A, Technical Specifications to Provisional Operating License DPR-13 for San Onofre Nuclear Generating Station, Unit 1.

Please contact us if we can be of further assistance.

Sincerely,

Enclosures

cc: J. B. Martin (Regional Administrator, USNRC Region V)

F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)

R. F. Dudley, Jr. (USNRC Unit 1 Project Manager, Office of Nuclear
Reactor Regulation)

Institute of Nuclear Power Operations (INPO)

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