Southern California Edison Company

23 PARKER STREET
IRVINE, CALIFORNIA 92718

April 15, 1991

F. R. NANDY MANAGER, NUCLEAR LICENSING TELEPHONE (714) 454-4504

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

Subject: Docket No. 50-206

Monthly Operating Report for March 1991

San Onofre Nuclear Generating Station, Unit 1

Technical Specification 6.9.1.10 to Provisional Operating License DPR-13 for the San Onofre Nuclear Generating Station, Unit 1, requires SCE provide a Monthly Operating Report which includes: routine operating statistics and shutdown experience; and, all challenges to pressurizer safety and relief valves.

This letter transmits the March 1991 Monthly Operating Report for Unit 1. There were no challenges to pressurizer safety or relief valves during the reporting period.

If you require any additional information, please let me know.

Very truly yours

Enclosures

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

C. W. Caldwell (USNRC Senior Resident Inspector, Units 1, 2 and 3)

G. Kalman (NRR, SONGS Project Manager)

Institute of Nuclear Power Operations (INPO)

(JE24

9104220319 910331 PDR ADOCK 05000206 PDR

NRC MONTHLY OPERATING REPORT

| | ; | DOCKET NO: UNIT NAME: DATE: COMPLETED BY: TELEPHONE: | 50-206 SONGS - 1 4-15-91 S. L. Vittum (714) 368-923 | |
|--|--|--|---|--|
| | OPERATING STATUS | | | |
| 1. 2. 3. 4. 5. 6. 7. | Unit Name: <u>San Onofre Nuclear Generating</u> Reporting Period: <u>March 1991</u> Licensed Thermal Power (MWt): | 1347 456 436 456 . 436 ems Number 3 T | | |
| 9. 10. | Power Level To Which Restricted, If Any Reasons For Restrictions, If Any: <u>Power result of a self-imposed reduced operation</u> tube corossion rate. | <u>level reducti</u> | <u>ion from full p</u> | ower as a am Generator |
| | TI | his Month Yr. | -to-Date Cum | ulative |
| 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. | Hours In Reporting Period Number Of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months | 19,898.00 19.56% 19.56% 6.13% 6.13% 0.00% (Type, Date, a | 28.800.00 47 16,631.00 45 6.74% 6.74% 1.77% 1.77% 0.00% and Duration of | ,704,144.00 ,010,277.00 55.21% 55.21% 50.66% 50.66% 19.53% |
| 25. 26. | If Shutdown At End Of Report Period, Est Units In Test Status (Prior To Commercia | | | NA Achieved |
| • | INITIAL CRITICALITY | operation; | NA | NA |
| | INITIAL ELECTRICITY | | NA | NA |
| | COMMERCIAL OPERATION | | NA | NA |
| | | | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-206
UNIT NAME: SONGS - 1
DATE: 4-15-91
COMPLETED BY: S. L. Vittum
TELEPHONE: (714) 368-9230

TELEPHONE: (714) 368-9230

| MON | TH: <u>March 1991</u> | | N. |
|-----|-------------------------------------|-----|---------------------------------------|
| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | . AVERAGE DAILY POWER LEVEL (MWe-Net) |
| . 1 | 0.00 | 17 | 0.00 |
| 2 | 0.00 | 18 | 0.00 |
| 3 | 0.00 | 19 | 0.00 |
| 4 | 0.00 | 20 | 0.00 |
| 5 | 0.00 | 21 | 0.00 |
| 6 | 0.00 | 22 | 0.00 |
| 7 | 0.00 | 23 | 0.00 |
| 8 | 0.00 | 24 | 86.92 |
| 9 | 0.00 | 25 | 104.67 |
| 10 | 0.00 | 26 | 0.00 |
| 11 | 0.00 | 27 | 0.00 |
| 12 | 0.00 | 28 | 73.29 |
| 13 | 0.00 | 29 | 220.88 |
| 14 | 0.00 | 30 | 275.46 |
| 15 | 0.00 | 31 | 286.17 |
| 16 | 0.00 | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: March 1991

DOCKET NO: 50-206

UNIT NAME: SONGS - 1

DATE: 4-15-91

COMPLETED BY: S. L. Vittum

TELEPHONE: (714) 368-9230

| No. | Date | Type ¹ | Duration (Hours) Re | eason ² | Method of Shutting Down Reactor ³ | LER No. | System Code⁴ | Component Code ⁵ | Cause & Corrective Action to Prevent Recurrence |
|----------------|-----------------|-------------------|---|---|---|--------------|-----------------|--|---|
| 139 | 900630 | S | 444.16 | C,D | 4 | NA | NA | NA | Reactor thermal shield supp Replacement and Cycle 11 refueling outage. |
| 140 | 910320 | F | 63.30 | A,B | . 1 | NA | JB | ISV | Reactor shutdown and entered Mode 3 for repairs to HV-854A and performance of a Hot SIS force test |
| 141 | 910322 | F . | 5.19 | В | 1 | NA | JB | VTV | Unit reduction for entry to Mode 3 to isolate SV-2900. |
| 142 | 910326 | F | 27.53 | В | 1 | NA | BQ | VTV | Unit reduction for entry to Mode 3 to isolate SV-3900. |
| 143 | 910327 | · F | 6.50 | Α | 2 | NA | IG | TBG : | Reactor shutdown to Mode 3 to cap cono-seal to teleflex path L-8. |
| ¹F-For S-Sc | rced heduled | | B-Mainten C-Refueli D-Regulat E-Operato F-Adminis | nance on ing cory Res or Train strative ional En | striction ning & License e rror (Explain) | e Examinatio | 'n | 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) | ⁵ IEEE Std 803A-1983 |

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO: 50-206 UNIT NAME: SONGS - 1 DATE: 4-15-91

COMPLETED BY: S. L. Vittum
TELEPHONE: (714) 368-9230

| <u>Date</u> | | <u>Time</u> | <u>Event</u> |
|-------------|-----|-------------|--|
| March | 1 | 0001 | Unit is in Mode 5. |
| March | 9 | 0827 | Unit entered Mode 4. |
| March | -12 | 1417 | Unit entered Mode 3. |
| March | 19 | 1135 | Unit entered Mode 2. |
| | | 1216 | Reactor is critical. |
| March | 20 | 2320 | Reactor shutdown and entered Mode 3 for repairs to HV-854A and performance of a Hot SIS force test. |
| March | 22 | 1222 | Unit entered Mode 2. |
| | | 1240 | Reactor is critical. |
| | | 1816 | Commenced shutdown to Mode 3 to isolate SV-2900. |
| | | 1821 | Unit entered Mode 3. |
| March | 23 | 0148 | Unit entered Mode 2 following repairs to SV-2900. |
| | | 0206 | Reactor is critical. |
| | | 1450 | Unit entered Mode 1. |
| 5 | | 1835 | Unit on line at 35 MWe (13% power) |
| March | 25 | 2308 | Commenced Unit load reduction for entry to Mode 2 for turbine overspeed and generator no load generator testing. |
| March | 26 | 0205 | Unit off line and in Mode 2 |
| | | 0424 | Commenced shutdown to Mode 3 to isolate SV-3900. |
| | | 0428 | Unit in Mode 3. |
| | | 0455 | Reactor trip breakers open. |

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| DOCKET NO: | 50-206 |
|---------------|----------------|
| UNIT NAME: | SONGS - 1 |
| DATE: | 4-15-91 |
| COMPLETED BY: | S. L. Vittum |
| TELEPHONE: | (714) 368-9230 |
| | |
| | |

| March | 27 | 0558 | Unit in Mode 2. |
|-------|----|------|---|
| | | 0618 | Reactor is critical. |
| | | 1620 | Commence reactor shutdown to Mode 3 to cap cono-seal to teleflex path L-8. |
| | | 1622 | Unit in Mode 3. |
| | | 1645 | Tripped reactor. |
| | | 2106 | Reactor startup commenced. |
| | | 2153 | Unit entered Mode 2. |
| | | 2210 | Reactor is critical. |
| March | 28 | 0557 | Unit on line at 27 MWe (17% power) |
| | | 1115 | Made a one-hour report to the NRC pursuant to 10 CFR 50.72(b).1.ii.B for a condition found during operation which is outside the design basis for the plant. Reactor power is to be limited to 75% Maximum until a review is made and the concern resolved. |
| | | 2200 | Unit load at 203 MWe (50% power) |
| March | 30 | 0620 | Commenced Heat Treat of Circulating Water System. |
| March | 31 | 2359 | Unit is in Mode 1 at 70% power, 308 MWe. |

REFUELING INFORMATION

| | DOCKET NO: UNIT NAME: | 50-206 SONGS - 1 4-15-91 |
|--|--------------------------------------|--------------------------------|
| | DATE: COMPLETED BY: TELEPHONE: | S. L. Vittum (714) 368-9230 |
| MONTH: <u>March 1991</u> | | |
| l. Scheduled date for next refueling shutdow | vn. | |
| September 1992 | | |
| 2. Scheduled date for restart following refu | ueling. | |
| Restart from the Cycle 12 refueling | outage is forecast | for February 1993 |
| Will refueling or resumption of operation Specification change or other license ame | | e a Technical |
| Not yet determined for Cycle 12 refueling | g. Under evaluatio | n. |
| What will these be? | | |
| Not yet determined. | | |
| Scheduled date for submitting proposed linformation. | icensing action and | supporting |
| Not yet determined. Under evaluation | on. | |
| Important licensing considerations associated different fuel design or supplier, unrevented methods, significant changes in fuel design. | iewed design or per | formance analysis |
| Not yet determined. Under evaluation | on. ' | |
| 6. The number of fuel assemblies. | | |
| a) In the core. <u>157</u> | | |
| b) In the spent fuel storage pool. | 99 | |
| 7. Licensed spent fuel storage capacity | 216 | |
| Intended change in spent fuel storage cap | pacity. <u>None</u> | . |
| mor.mar/7 | | |
| | | |

REFUELING INFORMATION

DOCKET NO:

50-206

UNIT NAME:

TELEPHONE:

SONGS - 1

DATE:

COMPLETED BY:

4-15-91 S. L. Vittum (714) 368-9230

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

Approximately 1995 (refueling only)
Approximately 1991 (full off load capability)

mor.mar/8