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

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: March 13, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

OPERATING STATUS

| 1. | Unit Name: San Onofre Nuclear Generati | ng Station, Unit 2 | | |
|-----|--|----------------------|------------------|----------------|
| 2. | Reporting Period: Fe | bruary 1996 | | |
| | Licensed Thermal Power (MWt): | | | |
| 4. | Nameplate Rating (Gross MWe): | 1127 | | |
| S. | Design Electrical Rating (Net MWe): | 1070 | | |
| | Maximum Dependable Capacity (Gross MWe) | | | |
| | Maximum Dependable Capacity (Net MWe): | | | |
| | If Changes Occur In Capacity Ratings (I | | th 7) | |
| | Since Last Report, Give Reasons: | | | |
| 9. | Power Level To Which Restricted, If Any | | | |
| | Reasons For Restrictions, If Any: | | | |
| | | | | |
| | | This Month | Yrto-Date | Cumulative |
| | | | | |
| 11. | Hours In Reporting Period | 696.00 | 1,440.00 | 109,897.00 |
| | Number Of Hours Reactor Was Critical | 696.00 | 1,440.00 | 84,828.19 |
| 13. | Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. | Hours Generator On-Line | 696.00 | 1,440.00 | 83,270.31 |
| | Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| | Gross Thermal Energy Generated (MWH) | 2,359,616.90 | 4,800,599.90 | 272,438,614.65 |
| | Gross Electrical Energy Generated (MWH) | 795,652.00 | 1,644,161.00 | 92,346,043.50 |
| | Net Electrical Energy Generated (MWH) | 757,887.32 | 1,566,876.32 | 87,609,468.23 |
| | Unit Service Factor | 100.00% | 100.00% | 75.77% |
| | Unit Availability Factor | 100.00% | 100.00% | |
| | | | | 75.77% |
| | Unit Capacity Factor (Using MDC Net) | | 101.69% | 74.50% |
| | Unit Capacity Factor (Using DER Net) | | 101.69% | 74.50% |
| | Unit Forced Outage Rate | 0.00% | 0.00% | 5.15% |
| 24. | Shutdowns Scheduled Over Next 6 Months | (Type, Date, and Dur | ration of Each): | |
| 20 | None | | | |
| | If Shutdown At End Of Report Period, Est | | | |
| 25. | Units In Test Status (Prior To Commercia | al Operation): For | ecust Achieved | |
| | THIMTAL COTMICAL THE | | | |
| | 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: | March 13, 1996 |
| COMPLETED BY: | C. E. Williams |
| TELEPHONE: | (714) 368-6707 |

| MONTH | H: February 1996 | | |
|-------|-------------------------------------|------|-------------------------------------|
| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
| 1 | 1097.39 | 16 | 1095.76 |
| 2 | 1097.18 | 17 | 863.64 |
| 3 | 1082.81 | 18 | 1083.81 |
| 4 | 1094.76 | 19 _ | 1102.10 |
| 5 | 1096.06 | 20 _ | 1100.81 |
| 6 | 1096.31 | 21 | 1102.47 |
| 7 | 1096.60 | 22 _ | 1103.56 |
| 8 | 1095.60 | 23 | 1103.81 |
| 9 | 1090.64 | 24 _ | 1103.01 |
| 10 | 1079.39 | 25 | 1103.22 |
| 11 | 1094.81 | 26 _ | 1105.31 |
| 12 | 1093.51 | 27 _ | 1105.89 |
| 13 | 1094.93 | 28 | 1103.85 |
| 14 | 1094.01 | 29 _ | 1103.35 |
| 15 | 1094,10 | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1996

DOCKET NO: 50-361

UNIT NAME: SONGS - 2

DATE: March 13, 1996 COMPLETED BY: C. E. Williams

5IEEE Std 803A-1983

TELEPHONE: (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 |
|-------|----------------|-------------------|---------------------|---------------------|---|------------|-----------------------------|--------------------------------|---|
| 93 | 2/17/96 | S | NA | В | 5 | NA | KE | COND | Heat treatment of circulating water sytem. |
| F-For | rced eduled | ²Reaso | on: ipment Fail | ure (Ex | olain) | | ³Metho | | 4IEEE Std 805-1984 |

B-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training & License Examination

F-Administrative

G-Operational Erro: (Explain)

H-Other (Explain)

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)

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| DOCKET NO: | 50-361 | |
|---------------|----------------|--|
| UNIT NAME: | SONGS - 2 | |
| DATE: | March 13, 1996 | |
| COMPLETED BY: | C. E. Williams | |
| TELEPHONE: | (714) 368-6707 | |

| Date | | Time | Event |
|----------|----|------|---|
| February | 01 | 0001 | Unit is in Mode 1, 99.5% reactor power, 1150 MWe. |
| February | 03 | 0545 | Unit load reduced to approximately 1070 MWe for high pressure turbine governor valve repair. |
| | | 0930 | Completed high pressure turbine governor valve repair. Unit returned to full load, 1150 MWe. |
| February | 10 | 0040 | Unit at 1070 MWe following high pressure turbine governor valve failing closed. |
| | | 0530 | Unit load restored to 1147 Mwe following the replacement of trip solenoid and servo valves for high pressure turbine governor valve, and high pressure turbine stop and governor valve testing. |
| February | 17 | 0136 | Commenced reactor power reduction to 80% for heat treatment of circulating water system intake. |
| | | 0343 | Reactor Power at 80%, 867 MWe |
| | | 2040 | Commenced reactor power increase to 95% at 4% per hour to monitor DNB, LPD, and ASI limits. |
| | | 2340 | Holding reactor power at 92% to compile data. |
| February | 18 | 0330 | Commenced slow ramp power increase to full load per Energy Control Center. |
| | | 0900 | Reactor power at 99.5%, 1152 MWe. |
| February | 29 | 2400 | Unit is in Mode 1, 100% reactor power, 1153 MWe. |

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: March 13, 1996
C. E. Williams
TELEPHONE: (714) 368-6707

MONTH: February 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?

Unknown at this time.

What will these be?

Unknown at this time.

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

Unknown at this time.

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.

Unknown at this time.

DOCKET NO: 50-361
UNIT NAME: SONGS - 2
DATE: March 13, 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.

March 2005, assuming current fuel loading for all fut re cycles, and Unit 1 fuel remains at current location.

NRC MONTHL! OPERATING REPORT SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: March 13, 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: Febru | | | |
| 3. | Licensed Thermal Power (MWt): | 3390 | | |
| 4. | Nameplate Rating (Gross MWe): | 1127 | | |
| | Design Electrical Rating (Net MWe): | | | |
| 6. | Maximum Dependable Capacity (Gross MWe): | 1127 | | |
| 7. | Maximum Dependable Capacity (Net MWe): | 1080 | | |
| 8. | If Changes Occur In Capacity Ratings (Ite | ems Number 3 Through | 7) | |
| | Since Last Report, Give Reasons: | NA | | |
| 9. | Power Level To Which Restricted, If Any | | | |
| 10. | Reasons For Restrictions, If Any: | NA | | |
| | | This Month | Yrto-Date | Cumulative |
| | | k, UNIVERSITY (1984) | | |
| 11. | Hours In Reporting Period | 696.00 | 1,440.00 | 104,448.00 |
| | Number Of Hours Reactor Was Critical | 696.00 | 1,440.00 | 83,376.70 |
| 13. | Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. | Hours Generator On-Line | 696.00 | 1,440.00 | 81,659.64 |
| 15. | Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 16. | Gross Thermal Energy Generated (MWH) | 2,359,616.90 | 4,881,996.00 | 263,381,465.40 |
| 17. | Gross Electrical Energy Generated (MWH) | 794,249.00 | 1,648,188.00 | 89,407,658.00 |
| 18. | Net Electrical Energy Generated (MWH) | 755,027.32 | 1,566,542.32 | 84,505,905.88 |
| 19. | Unit Service Factor | 100.00% | 100.00% | 78.18% |
| | Unit Availability Factor | 100.00% | 100.00% | 78.18% |
| | Unit Capacity Factor (Using MDC Net) | 100.45% | 100.73% | 74,91% |
| | Unit Capacity Factor (Using DER Net) | 100.45% | 100.73% | 74.918 74.918 |
| | Unit Forced Outage Rate | 0.00% | 0.00% | 5.50% |
| | Shutdowns Scheduled Over Next 6 Months (1 None | Type, Date, and Durat | cion of Each): | |
| | If Shutdown At End Of Report Period, Esti | mated Date of Startu | np: NA | 5위마음하다 스러스 너는 |
| | Units In Test Status (Prior To Commercial | | | |
| | | | | |
| | INITIAL CRITICALIT | Y NA | NA | |
| | INITIAL ELECTRICIT | Y NA | NA | |
| | | | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: March 13, 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

| MONTH: | February 1996 | | |
|--------------|-------------------------------------|------|-------------------------------|
| DAY LEVEL | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER (MWe-Net) |
| 1 | 1092.10 | 16 | 1081.26 |
| 2 | 1090.35 | 17 . | 1090.51 |
| 3 | 852.85 | 18 | 1090.93 |
| 4 | 1086.64 | 19 . | 1091.22 |
| 5 | 1094.85 | 20 | 1092.81 |
| 6 | 1096.31 | 21 . | 1092.18 |
| 7 | 1096.60 | 22 | 1092.97 |
| 8 | 1095.89 | 23 | 1093.64 |
| 9 | 1094.93 | 24 . | 1094.43 |
| 10 | 1094.89 | 25 . | 1093,43 |
| 11 | 1095.31 | 26 | 1093.06 |
| 12 | 1095.60 | 27 | 1093.68 |
| 13 | 1095.81 | 28 | 1092.56 |
| 14 | 1095.35 | 29 | 1094.31 |
| 15 | 1095.06 | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1996

DOCKET NO: _50-362

UNIT NAME: SONGS - 3

DATE: March 13, 1996

COMPLETED BY: C. E. Williams

TELEPHONE: (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 |
|---|--------|-------------------|---------------------|---------------------|---|--|-----------------------------|--------------------------------|---|
| 89 | 2/3/96 | S | NA | В | 5 | NA | KE | COND | Heat treatment of circulating water sytem. |
| Reason: S-Scheduled A-Equipment Failure (Explain) B-Maintenance or Test C-Refueling D-Regulatory Restriction E-Operator Training & License F-Administrative G-Operational Error (Explain) H-Other (Explain) | | | Examina | ation | Daily Pow | Scram. ion from Month in the Average wer Level of more from the previous day | | | |

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

| DOCKET NO: | 50-362 |
|---------------|----------------|
| UNIT NAME: | SONGS - 3 |
| DATE: | March 13, 1996 |
| COMPLETED BY: | C. E. Williams |
| TELEPHONE: | (714) 368-6707 |

| Date | | Time | Event |
|-----------|----|------|--|
| February | 01 | 0000 | Unit is in Mode 1, 99.6% reactor power, 1142 MWe. |
| Fet ruary | 03 | 0040 | Commenced power reduction to 80%, for circulating water system heat treatment. |
| | | 0245 | Reactor Power at 80% for circulating water system heat treatment. |
| | | 2200 | Commenced reactor power ascension to 100% following completion of circulating water system heat treatment. |
| February | 04 | 0240 | Reactor power at 99.5%, 1145 MWe. |
| February | 16 | 2130 | Reduced load to 1060 MWe to perform high pressure turbine stop and governor valve testing. |
| | | 2330 | Restored unit to full load, 1142 MWe, following completion of high pressure turbine stop and governor valve testing. |
| February | 29 | 2400 | Unit is in Mode 1, 99.3% reactor power, 1142 MWe. |

DOJKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: March 13. 1996
COMPLETED BY: C. E. Williams
TELEPHONE: (714) 368-6707

MONTH: February 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?

Unknown at this time.

What will these be?

Unknown at this time.

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

Unknown at this time.

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.

Unknown at this time.

DOCKET NO: 50-362
UNIT NAME: SONGS - 3
DATE: March 13, 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.

November 2003 (full off-load capability assuming current fuel loading for all future cycles, and unit 1 fuel remains where it is currently located).