



Tennessee Valley Authority, Post Office Box 2000, Suddys-Daisy, Tennessee 37379

J. L. Wilson
Vice President, Sequoyah Nuclear Plant

JAN 15 1992

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

Gentlemen:

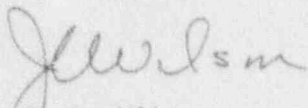
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|----------------------------|---|--------------------|
| In the Matter of |) | Docket Nos. 50-327 |
| Tennessee Valley Authority |) | 50-328 |

SEQUOYAH NUCLEAR PLANT (SQN) - DECEMBER 1991 MONTHLY OPERATING REPORT

Enclosed is the December 1991 Monthly Operating Report as required by SQN Technical Specification 6.9.1.10.

If you have any questions concerning this matter, please call
Mr. Cooper at (615) 843-8924.

Sincerely,


J. L. Wilson

Enclosure
cc: See page 2

JE24

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cc (Enclosure):

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TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

DECEMBER 1991

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

OPERATIONAL SUMMARY
DECEMBER 1991

UNIT 1

Unit 1 Cycle 5 refueling outage ended on December 20, 1991, at 0941 (Eastern Standard Time [EST]) when Unit 1 was returned to service. Unit 1 generated 198,540 megawatthours (MWh) (gross) electrical power during December with a capacity factor of 22.97 percent. Unit 1 was taken offline on December 20, 1991, at 1750 EST for performance of scheduled turbine overspeed test and was returned to service at 2112 EST. Power level increase was initiated, and Unit 1 was operating at approximately 98 percent power on December 28, 1991. On December 28, 1991, at 1152 EST, Unit 1 experienced a turbine runback to 75 percent rated thermal power as a result of the No. 3 heater drain tank (HDT) pump bypass valve opening. Power level increase was initiated at 2026 EST December 28, 1991. Unit 1 was operating at approximately 98 percent reactor power level at the end of December 1991.

UNIT 2

Unit 2 generated 850,610 MWh (gross) electrical power during December with a capacity factor of 98.39 percent. On December 7, 1991, at 0434 EST, Unit 2 reactor power level was decreased from 100 percent to 82 percent because the No. 3 HDT level control valves were indicating full closed with erratic pump readings on the No. 3 HDT pumps and 0 percent level in the No. 3 HDT. Further power level decrease from 82 percent to 68 percent was initiated at 0936 EST for replacement of one of the level control valves. On December 8, 1991, at 1011 EST, reactor power level increase was initiated. Unit 2 was again operating at 100 percent at 1421 EST and continued to operate at 100 percent through the end of December.

POWER-OPERATED RELIEF VALVES (PORV) AND SAFETY VALVES SUMMARY

There were no challenges to PORVs or safety valves in December.

OFFSITE DOSE CALCULATION MANUAL (ODCM) CHANGES

There were no changes to the ODCM during December.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327 UNIT No. One DATE: 01-03-92
 COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528
 MONTH: DECEMBER 1991

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | -5 | 17 | -30 |
| 2 | -5 | 18 | -33 |
| 3 | -2 | 19 | -33 |
| 4 | -2 | 20 | 56 |
| 5 | -2 | 21 | 248 |
| 6 | -2 | 22 | 257 |
| 7 | -2 | 23 | 247 |
| 8 | -2 | 24 | 436 |
| 9 | -2 | 25 | 773 |
| 10 | -9 | 26 | 777 |
| 11 | -33 | 27 | 827 |
| 12 | -28 | 28 | 975 |
| 13 | -28 | 29 | 1058 |
| 14 | -30 | 30 | 1065 |
| 15 | -26 | 31 | 1083 |
| 16 | -33 | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328 UNIT No. Two DATE: 01-03-92
 COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528
 MONTH: DECEMBER 1991

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | 1123 | 17 | 1119 |
| 2 | 1123 | 18 | 1120 |
| 3 | 1122 | 19 | 1121 |
| 4 | 1122 | 20 | 1121 |
| 5 | 1122 | 21 | 1119 |
| 6 | 1122 | 22 | 1118 |
| 7 | 870 | 23 | 1121 |
| 8 | 939 | 24 | 1121 |
| 9 | 1121 | 25 | 1121 |
| 10 | 1121 | 26 | 1121 |
| 11 | 1120 | 27 | 1121 |
| 12 | 1121 | 28 | 1120 |
| 13 | 1120 | 29 | 1120 |
| 14 | 1120 | 30 | 1120 |
| 15 | 1120 | 31 | 1119 |
| 16 | 1120 | | |

OPERATING DATA REPORT

DOCKET NO. 50-327
 DATE Jan. 8, 1992
 COMPLETED BY T. J. Holloman
 TELEPHONE (615) 843-7528

OPERATING STATUS

1. Unit Name: Sequoia Unit One
2. Reporting Period: December 1991
3. Licensed Thermal Power (MWt): 3411.0
4. Nameplate Rating (Gross MWe): 1220.6
5. Design Electrical Rating (Net MWe): 1148.0
6. Maximum Dependable Capacity (Gross MWe): 1162.0
7. Maximum Dependable Capacity (Net MWe): 1122.0
8. If Changes Occur in Capacity Ratings (Item Numbers 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

| | This Month | Yr-to-Date | Cumulative |
|---|------------|--------------|-------------|
| 11. Hours in Reporting Period | 744 | 8,760 | 92,065 |
| 12. Number of Hours Reactor Was Critical | 362.8 | 6,882.1 | 46,954 |
| 13. Reactor Reserve Shutdown Hours | 0 | 0 | 0 |
| 14. Hours Generator On-Line | 275.0 | 6,775.1 | 45,871.1 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0 | 0 |
| 16. Gross Thermal Energy Generated (MWH) | 615,142.8 | 22,326,466.8 | 149,612,534 |
| 17. Gross Electrical Energy Generated (MWH) | 198,540 | 7,546,910 | 50,667,496 |
| 18. Net Electrical Energy Generated (MWH) | 181,700 | 7,267,858 | 48,564,734 |
| 19. Unit Service Factor | 37.0 | 77.3 | 49.8 |
| 20. Unit Availability Factor | 37.0 | 77.3 | 49.8 |
| 21. Unit Capacity Factor (Using MDC Net) | 21.8 | 73.9 | 47.0 |
| 22. Unit Capacity Factor (Using DER Net) | 21.3 | 72.3 | 45.9 |
| 23. Unit Forced Outage Rate | 0.0 | 2.2 | 41.5 |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit 1 Cycle 5 refueling outage ended on December 20, 1991, at 0941 EST when Unit 1
was returned to service.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

OPERATING DATA REPORT

DOCKET NO. 50-328
 DATE Jan. 8, 1992
 COMPLETED BY T. J. Holloman
 TELEPHONE (615) 843-7528

OPERATING STATUS

1. Unit Name: Sequoyah Unit Two
2. Reporting Period: December 1991
3. Licensed Thermal Power (MWt): 3411.0
4. Nameplate Rating (Gross MWe): 1220.6
5. Design Electrical Rating (Net MWe): 1148.0
6. Maximum Dependable Capacity (Gross MWe): 1162.0
7. Maximum Dependable Capacity (Net MWe): 1122.0
8. If Changes Occur in Capacity Ratings (Item Numbers 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

| | This Month | Yr-to-Date | Cumulative |
|---|-------------|--------------|-------------|
| 11. Hours in Reporting Period | 744 | 8,760 | 84,025 |
| 12. Number of Hours Reactor Was Critical | 744.0 | 8,537.7 | 49,638 |
| 13. Reactor Reserve Shutdown Hours | 0 | 0 | 0 |
| 14. Hours Generator On-Line | 744.0 | 8,482.8 | 48,043.2 |
| 15. Unit Reserve Shutdown Hours | 0.0 | 0 | 0 |
| 16. Gross Thermal Energy Generated (MMB) | 2,498,839.2 | 28,652,862.6 | 150,927,313 |
| 17. Gross Electrical Energy Generated (MWH) | 850,610 | 9,672,075 | 51,158,291 |
| 18. Net Electrical Energy Generated (MWH) | 819,029 | 9,318,886 | 48,944,914 |
| 19. Unit Service Factor | 100.0 | 92.8 | 57.2 |
| 20. Unit Availability Factor | 100.0 | 92.8 | 57.2 |
| 21. Unit Capacity Factor (Using MDC Net) | 98.1 | 94.8 | 51.9 |
| 22. Unit Capacity Factor (Using DER Net) | 95.9 | 92.7 | 50.7 |
| 23. Unit Forced Outage Rate | 0.0 | 3.2 | 36.1 |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Unit 2 Cycle 5 refueling outage is scheduled to begin March 13, 1992, and is currently scheduled as a 60-day outage.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: December 1991

DOCKET NO: 50-327
 UNIT NAME: One
 DATE: 01/08/92
 COMPLETED BY: T. J. Holloman
 TELEPHONE: (615) 843-7528

| No. | Date | Type ¹ | Duration (Hours) | Reason ² | Method of Shutting Down Reactor ³ | Licensee Event Report No. | System Code ⁴ | Component Code ⁵ | Cause and Corrective Action to Prevent Recurrence |
|-----|--------|-------------------|---------------------|---------------------|--|---------------------------------|-----------------------------|--------------------------------|--|
| 9 | 911005 | S | 465.7 | C | 1 | | | | Unit 1 Cycle 5 refueling outage ended on 12/20/91, at 0941 EST when Unit 1 was returned to service. Unit 1 was taken offline on 12/20/91, at 1750 EST for performance of scheduled turbine overspeed test and returned to service at 2112 EST. Power level increase was initiated, and Unit 1 reached approximately 98 percent power on December 28, 1991. |
| 10 | 911228 | F | | A | 5 | | | | On 12/20/91, at 1152 EST, Unit 1 experienced a turbine runback to 75 percent rated thermal power as a result of No. 3 HOF pump bypass valve opening. Power level increase was initiated at 2026 EST, on 12/28/91. Unit 1 was operating at approximately 98 percent reactor power level at the end of December 1991. |

¹F: Forced
 S: Scheduled

²Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operational Training and License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³Method:

1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continuation of Existing Outage
 5-Reduction
 9-Other

⁴Exhibit G-Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG-1022)

⁵Exhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: December 1991DOCKET NO: 50-328UNIT NAME: TwoDATE: 01/08/92COMPLETED BY: T. J. HollomanTELEPHONE: (615) 843-7528

| No. | Date | Type ¹ | Duration (Hours) | Reason ² | Method of Shutting Down Reactor ³ | Licensee Event Report No. | System Code ⁴ | Component Code ⁵ | Cause and Corrective Action to Prevent Recurrence |
|-----|--------|-------------------|---------------------|---------------------|--|---------------------------------|-----------------------------|--------------------------------|---|
| 6 | 911207 | F | | S | 5 | | | | On 12/7/91, at 0434 EST, Unit 2 reactor power level was decreased from 100 percent to 82 percent because the No. 3 HDT level control valves were indicating closed with erratic pump readings on the No. 3 HDT pumps and 0 percent level on the No. 3 HDT. Further power level decrease from 82 percent to 68 percent was initiated at 0936 EST for replacement of one of the level control valves. On 12/8/91, at 1011 EST, reactor power level increase was initiated. Unit 2 was again operating at 100 percent on 12/8/91, at 1421 EST and continued to operate at 100 percent through the end of December. |

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S: Scheduled

²Reason:
A-Equipment Failure (Explain)
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C-Refueling
D-Regulatory Restriction
E-Operator Training and License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation of Existing Outage
5-Reduction
9-Other

⁴Exhibit G-Instructions
for Preparation of Data
Entry sheets for Licensee
Event Report (LER) File
(NUREG-1022)

⁵Exhibit I-Same Source