



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

Jack L. Wilson
Vice President, Sequoyah Nuclear Plant

December 16, 1991

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

Gentlemen:

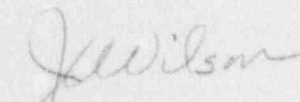
In the Matter of)	Docket Nos. 50-327
Tennessee Valley Authority)	50-328

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

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

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

Sincerely,


J. L. Wilson

Enclosure
cc: See page 2

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U.S. Nuclear Regulatory Commission

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December 16, 1991

cc (Enclosure):

INPO Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30389

Mr. D. E. LaBarge, Project Manager
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852

Mr. Ted Marston, Director
Electric Power Research Institute
P.O. Box 10412
Palo Alto, California 94304

NRC Resident Inspector
Sequoyah Nuclear Plant
2600 Igou Ferry Road
Soddy-Daisy, Tennessee 37379

Regional Administration
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. B. A. Wilson, Project Chief
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. F. Yost, Director Research Services
Utility Data Institute
1700 K Street, NW, Suite 400
Washington, D.C. 20006

TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

NOVEMBER 1991

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-7

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

OPERATIONAL SUMMARY
NOVEMBER 1991

UNIT 1

Unit 1 entered the Cycle 5 refueling outage on October 5, 1991. At the beginning of November, Unit 1 was in Mode 6 (defueled). On November 4, 1991, fuel movement began to reload the core and was completed on November 7, 1991. Unit 1 entered Mode 5 on November 14, 1991, at 2018 Eastern standard time (EST) and remained in Mode 5 through the end of November.

UNIT 2

Unit 2 generated 530,950 megawatt-hours (MWh) (gross) electrical power during November with a capacity factor of 63.46 percent. On November 7, 1991, at 1403 EST, Unit 2 reactor tripped on low-low steam generator level resulting from an inadvertent main steam isolation valve closure. On November 7, 1991, it was determined that various 480-volt (V) electrical boards did not have selective coordination between the feeder breakers and the load breakers on the boards as a result of a breaker design feature. On November 8, 1991, at 0056 EST, the 480-V Shutdown Board 1B2-B was inadvertently short circuited by electricians during activities to correct the breaker coordination problem resulting in a trip of the board. Unit 2 entered Mode 5 on November 8, 1991, at 2002 EST to repair the shutdown board and complete the modifications to correct the coordination problem. On November 14, 1991, 480-V Shutdown Board 1B2-B was repaired, and the breaker modifications were completed. At 0454 EST on November 15, 1991, Unit 2 entered Mode 4 and was again online on November 17, 1991, at 1417 EST. Unit 2 was operating at 100 percent reactor power level again on November 19, 1991, at 1233 EST.

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

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

OFFSITE DOSE CALCULATION MANUAL (ODCM) CHANGES

There were no changes to the ODCM during November.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327 UNIT No. One DATE: 12-04-91
 COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528
 MONTH: NOVEMBER 1991

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328 UNIT No. Two DATE: 12-04-91
 COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528
 MONTH: NOVEMBER 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1117	17	43
2	1117	18	494
3	1118	19	1089
4	1119	20	1114
5	1119	21	1119
6	1120	22	1122
7	637	23	1122
8	-28	24	1122
9	-26	25	1123
10	-16	26	1122
11	-19	27	1123
12	-16	28	1124
13	-21	29	1123
14	-20	30	1123
15	-37	31	NA
16	-35		

OPERATING DATA REPORT

DOCKET NO.	50-327
DATE	Dec. 3, 1991
COMPLETED BY	T. J. Holloman
TELEPHONE	(615) 843-7528

OPERATING STATUS

- | | |
|---|-------------------|
| 1. Unit Name: | Sequoyah Unit One |
| 2. Reporting Period: | November 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: | |

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	720	8,016	91,321
12. Number of Hours Reactor Was Critical	0.0	6,519.3	46,591
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	0.0	5,500.1	45,596.1
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Energy Generated (MWH)	0.0	21,711,324.0	148,997,391
17. Gross Electrical Energy Generated (MWH)	0	7,348,370	50,468,956
18. Net Electrical Energy Generated (MWH)	(2,271)	7,086,158	48,383,034
19. Unit Service Factor	0.0	81.1	49.9
20. Unit Availability Factor	0.0	81.1	49.9
21. Unit Capacity Factor (Using MOC Net)	-0.3	78.8	47.2
22. Unit Capacity Factor (Using DER Net)	-0.3	77.0	46.2
23. Unit Forced Outage Rate	0.0	2.3	41.6

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

Unit 1 Cycle 5 refueling outage began October 5, 1991, at 0249 (EDT). Generator synchronization is scheduled for December 14, 1991.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: December 16, 1991

OPERATING DATA REPORT

DOCKET NO. 50-328
 DATE Dec. 4, 1991
 COMPLETED BY T. J. Holloman
 TELEPHONE (615) 843-7528

OPERATING STATUS

- | | Notes |
|---|-------|
| 1. Unit Name: <u>Sequoyah Unit Two</u> | |
| 2. Reporting Period: <u>November 1991</u> | |
| 3. Licensed Thermal Power (Mwt): <u>3411.0</u> | |
| 4. Nameplate Rating (Gross MWe): <u>1220.5</u> | |
| 5. Design Electrical Rating (Net MWe): <u>1148.0</u> | |
| 6. Maximum Dependable Capacity (Gross MWe): <u>1162.0</u> | |
| 7. Maximum Dependable Capacity (Net MWe): <u>1122.0</u> | |
| 8. If Changes Occur in Capacity Ratings (Item Numbers 3 Through 7) Since Last Report, Give Reasons: | |

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	<u>720</u>	<u>8,016</u>	<u>83,281</u>
12. Number of Hours Reactor Was Critical	<u>97.1</u>	<u>7,793.1</u>	<u>48,264</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>479.8</u>	<u>7,738.8</u>	<u>47,299.2</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,567,576.9</u>	<u>26,154,023.4</u>	<u>148,428,474</u>
17. Gross Electrical Energy Generated (MWH)	<u>530,950</u>	<u>8,819,465</u>	<u>50,307,681</u>
18. Net Electrical Energy Generated (MWH)	<u>506,022</u>	<u>8,499,857</u>	<u>48,125,935</u>
19. Unit Service Factor	<u>66.6</u>	<u>96.5</u>	<u>56.8</u>
20. Unit Availability Factor	<u>66.6</u>	<u>96.5</u>	<u>56.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>62.6</u>	<u>94.5</u>	<u>51.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>61.2</u>	<u>92.4</u>	<u>50.3</u>
23. Unit Forced Outage Rate	<u>33.4</u>	<u>3.5</u>	<u>36.4</u>

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: November 1991DOCKET NO: 50-327UNIT NAME: OneDATE: 12/04/91COMPLETED 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
9	911005	S	720.0	C	1				Unit 1 Cycle 5 refueling outage continues.

¹F: Forced
S: Scheduled

²Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: November 1991DOCKET NO: 50-328UNIT NAME: TwoDATE: 12/04/91COMPLETED 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
5	911107	F	240.2	A	3	50-328/91006 50-327/91026	SB ED	ISV BKR	On 11/7/91, at 1403 EST, Unit 2 reactor tripped on low-low steam generator level resulting from an inadvertent main steam isolation valve closure. On 11/7/91, it was determined that various 480-V electrical boards did not have selective coordination between the feeder breakers and the load breakers on the boards as a result of a breaker design feature. On 11/8/91, at 0056 EST, the 480-V Shutdown Board 1B2-B was inadvertently short circuited by electricians during activities to correct the breaker coordination problem resulting in a trip on the board. Unit 2 entered Mode 5 on 11/8/91, at 2002 EST to repair the shutdown board and complete the modifications to correct the coordination problem. On 11/14/91, 480-V Shutdown Board 1B2-B was repaired, and the breaker modifications were completed. At 0454 EST on 11/15/91, Unit 2 entered Mode 4 and was again online on 11/17/91, at 1417 EST. Unit 2 was operating at 100% reactor power level again on 11/19/91 at 1233 EST.

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