



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

J. L. Wilson
Vice President, Sequoyah Nuclear Plant

November 16, 1992

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

Gentlemen:

In the Matter of)
Tennessee Valley Authority)

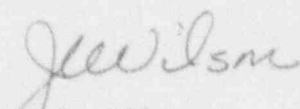
Docket Nos. 50-327
50-328

SEQUOYAH NUCLEAR PLANT (SQN) - OCTOBER 1992 MONTHLY OPERATING REPORT

Enclosed is the October 1992 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

Page 2

November 16, 1992

cc (Enclosure):

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TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT
TO THE
NUCLEAR REGULATORY COMMISSION
OCTOBER 1992

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

OPERATIONAL SUMMARY
OCTOBER 1992

UNIT 1

Unit 1 generated 723,030 megawatthours (MWh) (gross) electrical power during October with a capacity factor of 83.52 percent. Unit 1 operated at near 100 percent reactor power until October 26.

On October 26, 1992, at 1855 Eastern standard time (EST), the reactor tripped because of a turbine trip that resulted from a high-high feedwater level in the No. 3 steam generator. Before the trip, water was inadvertently introduced into the control air system, inducing secondary plant transients that resulted in a turbine runback to 81 percent. Before the Unit 1 turbine runback, steam generator No. 3 was experiencing low level as a result of water intrusion in the pneumatic positioner at the feedwater regulating valve (FRV). The unit operator placed the flow indicating controller (FIC) in manual for the steam generator No. 3 FRV to attempt to gradually raise the level. The automatic-manual switching relay (K-1) for this FIC did not change state, causing the manual control circuit to be electrically inoperable. This condition resulted in the FRV going to the full open position and not responding to the controller in automatic or manual. Attempts to close the valve were unsuccessful, resulting in a high-high level turbine trip.

Unit 1 remained in Mode 3 at the end of October while recovery actions for the control air water intrusion continued; the K-1 relay in 1-FIC-3-90 was replaced.

UNIT 2

Unit 2 generated 766,510 MWh (gross) electrical power during October with a capacity factor of 88.54 percent. Unit 2 operated at near 100 percent reactor power until October 26.

On October 26, at 1855 EST, Unit 2 experienced a runback to 67 percent power when introduction of water into the No. 3 heater drain tank level controllers (by the event described above) resulted in feedwater bypass to the condenser. Power was further reduced until the unit was stabilized at approximately 55 percent power.

On October 27, at 0645 EST, intermediate Heater String C isolated. At 0649 EST, intermediate Heater String B isolated, and a reactor power reduction to 30 percent was initiated. At 0710 EST, Unit 2 was stabilized at 30 percent reactor power.

Unit 2 remained at 30 percent reactor power at the end of October while recovery actions for the control air water intrusion continued.

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

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 70-527 UNIT No. One DATE: 11-06-92
 COMPLETED BY: T. J. Hollomoc TELEPHONE: (617) 843-7528
 MONTH: OCTOBER 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1127	17	1131
2	1120	18	1132
3	1128	19	1133
4	1130	20	1136
5	1129	21	1137
6	1129	22	1135
7	1126	23	1139
8	1129	24	1132
9	1127	25	1140
10	1128	26	891
11	1128	27	-26
12	1128	28	-25
13	1129	29	-23
14	1130	30	-22
15	1130	31	-23
16	1150		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328

UNIT No. Two

DATE: 11-06-92

COMPLETED BY: T. J. Hollomon

TELEPHONE: (615) 843-7528

MONTH: OCTOBER 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1125
2	1124
3	1124
4	1125
5	1126
6	1126
7	1125
8	1125
9	1124
10	1125
11	1125
12	1126
13	1126
14	1126
15	1123
16	1128

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1129
18	1130
19	1131
20	1131
21	1132
22	1133
23	1132
24	1133
25	1131
26	1033
27	402
28	295
29	295
30	295
31	293

OPERATING DATA REPORT

DOCKET NO. 50-327
 DATE 11/06/92
 COMPLETED BY J. J. Hollimon
 TELEPHONE (615) 841-7528

OPERATING STATUS

1. Unit Name: Sequoyah Unit One
2. Reporting Period: October 1992
3. Licensed Thermal Power (MWt): 3411.0
4. Nameplate Rating (Gross MWe): 1120.6
5. Design Electrical Rating (Net MWe): 1148.0
6. Maximum Dependable Capacity (Gross MWe): 1152.0
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	745	7,329	99,385
12. Number of Hours Reactor Was Critical	519.9	6,357.5	53,311
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	619.9	6,313.4	51,184.5
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Energy Generated (MWH)	2,107,322.4	20,790,545.5	170,403,078
17. Gross Electrical Energy Generated (MWH)	723,030	7,089,198	57,747,694
18. Net Electrical Energy Generated (MWH)	696,041	6,816,307	55,381,041
19. Unit Service Factor	83.2	86.2	52.5
20. Unit Availability Factor	83.2	86.2	52.5
21. Unit Capacity Factor (Using MDC Net)	83.3	83.0	49.7
22. Unit Capacity Factor (Using DER Net)	81.4	81.1	48.5
23. Unit Forced Outage Rate	16.8	13.8	39.1

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
The Cycle 3 refueling outage is scheduled to begin on April 2, 1993, with a duration of 65 days.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: November 2, 1992

OPERATING DATA REPORT

DOCKET NO. 50-328
 DATE 11/06/92
 COMPLETED BY I. J. Holloman
 TELEPHONE (615) 843-7528

OPERATING STATUS

- | | Notes |
|---|-------|
| 1. Unit Name: <u>Sequoyah Unit Two</u> | |
| 2. Reporting Period: <u>October 1992</u> | |
| 3. Licensed Thermal Power (MWt): <u>3411.0</u> | |
| 4. Nameplate Rating (Gross MWe): <u>1220.6</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): <u>N/A</u> | |
| 10. Reasons For Restrictions, If Any: <u>N/A</u> | |
| | |
| | |

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	<u>745</u>	<u>7,320</u>	<u>91,345</u>
12. Number of Hours Reactor Was Critical	<u>745.0</u>	<u>5,742.7</u>	<u>54,751</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>745.0</u>	<u>5,572.4</u>	<u>53,615.6</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,252,338.0</u>	<u>17,413,989.4</u>	<u>168,341,303</u>
17. Gross Electrical Energy Generated (MWH)	<u>766,510</u>	<u>5,903,043</u>	<u>57,061,334</u>
18. Net Electrical Energy Generated (MWH)	<u>737,484</u>	<u>5,665,214</u>	<u>54,610,178</u>
19. Unit Service Factor	<u>100.0</u>	<u>76.1</u>	<u>58.7</u>
20. Unit Availability Factor	<u>100.0</u>	<u>76.1</u>	<u>58.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>88.2</u>	<u>69.0</u>	<u>53.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>86.2</u>	<u>67.4</u>	<u>52.1</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>3.4</u>	<u>33.7</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: OCTOBER 1992DOCKET NO: 50-328UNIT NAME: TwoDATE: 11/03/92COMPLETED BY: L. 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
8	921026	F		A	5				At 1854 Eastern standard time, Unit 2 had a runback as a result of water intrusion into the No. 3 heater drain tank level controllers. The cause of the water intrusion into the station control air system was condensate accumulation in the No. 2 receiver tank due to sediment buildup in the bottom of the tank. This prevented the traps and shiftly manual blow-down through the bypass drain from being effective. After identifying that water intrusion into the control air system had occurred, an action plan was developed and implemented to correct the condition. Water was removed from the system by blowing down the system while venting and draining the system until the system air quality was determined to be acceptable.

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
(NURCG-1022)

⁵Exhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: OCTOBER 1992DOCKET NO: 50-327UNIT NAME: OneDATE: 11/09/92COMPLETED BY: T. J. HollomonTELEPHONE: (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
8	921026	1	125.1	A	3	50-327/ 92018	003	RLY	The reactor trip was precipitated by a turbine trip. The turbine tripped as a result of high-high feedwater level in the No. 3 steam generator, resulting from the failure of the loop No. 3 FRV. The controller malfunction was caused by the automatic-manual switching relay (K-1) failing to change states. This resulted in the valve going to the full open position when the operator went from automatic to manual control. Prior to this event, water was introduced to the nonessential control air system, resulting in secondary plant transients. The K-1 relay was replaced, and the valve was returned to operable status. Water was removed from the system by blowing down the system while venting and draining the system until the system air quality was determined to be acceptable.

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S: Scheduled

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

⁵Exhibit I-Same Source