



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37375

J. L. Wilson  
Vice President, Sequoyah Nuclear Plant

March 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) - FEBRUARY 1992 MONTHLY OPERATING REPORT

Enclosed is the February 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

GE24.1

U.S. Nuclear Regulatory Commission

Page 2

March 16, 1992

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 2085-

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  
SEQUOIA NUCLEAR PLANT

MONTHLY OPERATING REPORT  
TO THE  
NUCLEAR REGULATORY COMMISSION

FEBRUARY 1992

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

OPERATIONAL SUMMARY  
FEBRUARY 1992

UNIT 1

Unit 1 generated 690,550 megawatthours (MWh) (gross) electrical power during February with a capacity factor of 85.38 percent. Unit 1 was operating at 100 percent reactor power level on February 13 at 0113 Eastern standard time (EST), when a power level decrease to 70 percent power level was initiated to allow repair of the Number 3 heater drain tank Level Control Valve (LCV) LCV-6-106B; it appeared that the plug had separated from the stem. At 2348 (EST) on February 13, a further decrease in reactor power level was initiated as a result of chemistry requirements being exceeded on steam generator blow down because of a condenser tube leak. On February 14 at 0222 (EST), Unit 1 power level reduction was terminated at 30 percent reactor power.

On February 18 at 0026 (EST), a power level increase was initiated. Unit 1 was operating at 100 percent reactor power level at 1635 (EST) on February 21.

On February 27 at 1725 (EST), Unit 1 reactor power level was decreased to approximately 82 percent to allow work on Number 7 heater drain tank LCV-6-109A. On February 28 at 0812 (EST), an additional power level decrease to 80 percent was initiated to remove Condensate Booster Pump (CEP) 1A from service to repair a casing vent valve leak. On February 28 at 2055 (EST), reactor power level increase was initiated. Unit 1 was operating at 100 percent reactor power on February 29 at 0400 (EST), and continued to operate at 100 percent through the end of February.

UNIT 2

Unit 2 generated 628,470 MWh (gross) electrical power during February with a capacity factor of 77.71 percent. Unit 2 was operating at approximately 96 percent reactor power level at the beginning of February and was in coastdown to the Unit 2 Cycle 5 refueling outage. On February 10 at 0528 (EST), with Unit 2 operating at 89 percent reactor power level, a reactor trip occurred when the turbine tripped as a result of low auto stop oil pressure. The unit had been operating with no abnormal indications before the trip. Unit 2 had received a reactor trip "P-9 Turbine Trip/Reactor Trip." The cause of the event was determined to be the failure of the autostop trip solenoid valve on the turbine trip block.

Unit 2 was returned critical at 1329 (EST) on February 11 and entered Mode 1 at 2015 (EST). Unit 2 tied online on February 12 at 0219 (EST). On February 19 at 1547 (EST), Unit 2 reactor power level was at 87 percent. Unit 2 continued the coastdown to the Unit 2 Cycle 5 refueling outage. Unit 2 was operating at approximately 79 percent reactor power level at the end of February.

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

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

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327 UNIT No. One DATE: 03-05-92

COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528

MONTH: FEBRUARY 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1149</u>	17	<u>271</u>
2	<u>1148</u>	18	<u>622</u>
3	<u>1148</u>	19	<u>730</u>
4	<u>1148</u>	20	<u>732</u>
5	<u>1148</u>	21	<u>1037</u>
6	<u>1147</u>	22	<u>1138</u>
7	<u>1147</u>	23	<u>1142</u>
8	<u>1147</u>	24	<u>1142</u>
9	<u>1147</u>	25	<u>1131</u>
10	<u>1144</u>	26	<u>1141</u>
11	<u>1144</u>	27	<u>1103</u>
12	<u>1137</u>	28	<u>941</u>
13	<u>825</u>	29	<u>1140</u>
14	<u>303</u>	30	<u>N/A</u>
15	<u>283</u>	31	<u>N/A</u>
16	<u>287</u>		

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328 UNIT No. Two DATE: 03-05-92  
 COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528  
 MONTH: FEBRUARY 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1082	17	935
2	1075	18	962
3	1069	19	972
4	1060	20	966
5	1052	21	967
6	1045	22	955
7	1034	23	946
8	1021	24	938
9	1019	25	933
10	257	26	928
11	-33	27	922
12	210	28	907
13	564	29	898
14	769	30	N/A
15	825	31	N/A
16	919		

# OPERATING DATA REPORT

DOCKET NO. 50-327  
 DATE Mar. 5, 1992  
 COMPLETED BY T. J. Holzman  
 TELEPHONE (615) 843-7528

## OPERATING STATUS

1. Unit Name: Sequoyah Unit One
2. Reporting Period: February 1992
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	696	1,440	93,505
12. Number of Hours Reactor Was Critical	696.0	1,440.0	48,394.0
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	696.0	1,440.0	47,311.3
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Energy Generated (MWH)	2,013,634.3	4,533,376.7	154,145,910
17. Gross Electrical Energy Generated (MWH)	690,550	1,565,188	52,232,684
18. Net Electrical Energy Generated (MWH)	661,739	1,507,633	50,072,367
19. Unit Service Factor	100.0	100.0	50.5
20. Unit Availability Factor	100.0	100.0	50.6
21. Unit Capacity Factor (Using MDC Net)	84.7	93.3	47.7
22. Unit Capacity Factor (Using DER Net)	82.8	91.2	46.6
23. Unit Forced Outage Rate	0.0	0.0	40.7
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: \_\_\_\_\_



# OPERATING DATA REPORT

DOCKET NO. 50-328  
 DATE Mar. 5, 1992  
 COMPLETED BY T. J. Hollomon  
 TELEPHONE (615) 843-7528

## OPERATING STATUS

- |   | Notes |
|---|-------|
| 1. Unit Name: <u>Sequoyah Unit Two</u>  |       |
| 2. Reporting Period: <u>February 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): N/A  
 10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	696	1,440	85,465
12. Number of Hours Reactor Was Critical	664.0	1,408.0	50,416
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	651.2	1,395.2	49,438.4
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Energy Generated (MWH)	1,840,863.3	4,367,657.4	155,294,970
17. Gross Electrical Energy Generated (MWH)	628,470	1,491,156	52,649,447
18. Net Electrical Energy Generated (MWH)	603,339	1,436,861	50,381,825
19. Unit Service Factor	93.6	96.9	57.8
20. Unit Availability Factor	93.6	96.9	57.8
21. Unit Capacity Factor (Using MDC Net)	77.3	88.9	52.5
22. Unit Capacity Factor (Using DER Net)	75.5	86.9	51.4
23. Unit Forced Outage Rate	6.4	3.1	35.4
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 65-day outage.		

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



## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1992DOCKET NO: 50-327UNIT NAME: OneDATE: 03/10/92COMPLETED BY: T. J. HollomanTELEPHONE: (615) 843-7528

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
1	2/13/92	1	N/A	A/B	5	N/A	N/A	N/A	On 2/13/92 at 0113 (EST), a power level reduction to 70 percent was initiated to allow repair of the Number 3 heater drain tank level control valve (LCV) LCV-6-105B. It appeared the plug had separated. Corrective maintenance was performed on LCV-6-106B and the valve was returned to service. At 2348 (EST) on 2/13/92, a further decrease to 30 percent reactor power level was initiated as a result of chemistry requirements being exceeded on steam generator blowdown because of a condenser tube leak. The condenser tube leak was corrected. On 2/18/92 at 0526 (EST), reactor power increase was initiated.
2	2/27/92	1	N/A	B	5	N/A	N/A	N/A	On 2/27/92 at 1725 (EST), reactor power level was reduced to 82 percent to perform corrective maintenance on No. 7 heater drain tank LCV-6-109A. On 2/28/92, an additional decrease to 80 percent was initiated to repair a casing vent valve leak on the 1A condensate booster pump. At 2055 (EST) on 2/28/92, reactor power level increase was initiated.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> Reason:  
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)

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

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

<sup>5</sup> Exhibit I-Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1992DOCKET NO: 50-328UNIT NAME: TwoDATE: 03/10/92COMPLETED BY: T. J. HollomanTELEPHONE: (615) 843-7528

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report No.	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause and Corrective Action to Prevent Recurrence
1	2/10/92	F	44.9	A	3	328/92001	TG	PSV	<p>Unit 2 was in coastdown to U2C5 refueling outage at the beginning of February.</p> <p>On 2/10/92 at 0528 (EST), Unit 2 reactor tripped when the turbine tripped as a result of low auto stop oil pressure. The cause of the event was the failure of the autostop trip solenoid valve on the turbine trip block.</p> <p>Unit 2 was online again on 2/12/92 at 0219 (EST) and began increasing power. Unit 2 reached approximately 87 percent reactor power on 2/19/92 at 1547 (EST), and resumed coastdown to U2C5 refueling outage.</p>

<sup>1</sup>F: Forced  
S: Scheduled

<sup>2</sup>Reason:  
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)

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

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

<sup>5</sup>Exhibit I-Same Source