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J. L. Wilson
Vice President, Sequoyah Nuclear Plant

September 15, 1992

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) - AUGUST 1992 MONTHLY OPERATING REPORT

Enclosed is the August 1992 Monthly Operating Report as required by SQN Technical Specification 6.9.1.10.

If you have any questions concerning this matter, please call J. D. Smith at (615) 843-6672.

Sincerely,

J. L. Wilson
J. L. Wilson

Enclosure
cc: See page 2

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U.S. Nuclear Regulatory Commission

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September 15, 1992

cc (Enclosure):

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TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT
TO THE
NUCLEAR REGULATORY COMMISSION

AUGUST 1992

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

OPERATIONAL SUMMARY
AUGUST 1992

UNIT 1

Unit 1 generated 837,900 megawatthours (MWh) (gross) electrical power during August with a capacity factor of 96.92 percent.

On August 4, 1992, at 0959 Eastern daylight time (EDT), Operations and Maintenance personnel were attempting to isolate the electrohydraulic controller oil to each pair of intercept and reheat valves on the moisture separator reheater (MSR) to identify individual servo valves with excessive leakage and to potentially correct a cycling problem. During the troubleshooting process, both flow paths from the "A" MSRs to the low pressure turbine "A" were inadvertently isolated simultaneously. The resulting high pressure in the remaining MSRs caused the lifting of several safety valves. The operators immediately opened the isolated intercept and reheat valves. This transient resulted in a turbine runback to 75 percent power initiated by a high-level bypass of the No. 3 heater drain tank (HDT). Following the runback, the plant was stabilized at 72 percent power at 1010 EDT.

After a thorough investigation into the cause of the event and any possible damage to the turbine, the MSRs, and the feedwater heaters, the plant was returned to full power. Unit 1 was again at 100 percent reactor power on August 5 at 0127 EDT.

Unit 1 reactor power level was decreased again on August 16 at 0423 EDT when the "B" No. 3 HDT oil reservoir was found overflowing. Power level decrease was terminated at 84 percent power at 0623 EDT. At 1050 EDT, repairs were complete, and a power level increase was initiated. Unit 1 was again at 100 percent reactor power level on August 16 at 1415 EDT.

Unit 1 operated at near 100 percent reactor power through the end of August.

UNIT 2

Unit 2 generated 732,391 MWh (gross) electrical power during August, with a capacity factor of 84.72 percent.

On August 21, 1992, with Unit 2 operating at approximately 100 percent power, a reactor trip occurred at approximately 1321 EDT when a spurious signal, generated on all four pressurizer pressure channels, initiated a low pressurizer pressure trip signal and two of three channels generated an automatic safety-injection signal. Unit 2 entered Mode 3. An investigation revealed the most probable cause to be an inadvertent radio transmission in the seal table area.

Unit 2 was again critical on August 22 at 2207 EDT, entered Mode 1 on August 23 at 0455 EDT, and tied online at 0732 EDT that day. On August 24 at 1540 EDT, Unit 2 was at 68 percent power level and holding for repair work on the 2B condensate booster pump injection water differential pressure switch. At 1738 EDT that day, repairs and postmaintenance testing were complete, and a power level increase was initiated. Unit 2 reached 100 percent power at 0530 EDT on August 25.

UNIT 2 (Cont'd)

Unit 2 reactor power level was decreased from 100 percent to 56 percent on August 27 to perform maintenance on both main feedwater pumps. The power level decrease was initiated at 1824 EDT and terminated at 2221 EDT. On August 29 at 1522 EDT, repairs were completed and controls were in automatic. Unit 2 was available for 100 percent power, but at the request of load control, remained at 60 percent reactor power.

On August 31 at 0400 EDT, Unit 2 power level increase was initiated. At 0635 EDT, the 2B condensate demineralizer booster pump (CDBP) failed to start according to procedure. Reactor power level was increased to 80 percent and held until problems with the 2B CDBP were resolved. At 1745 EDT, reactor power level increase was resumed, and Unit 2 was at approximately 90 percent reactor power level at the end of August.

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

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327 UNIT No. One DATE: 09-08-92

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

MONTH: AUGUST 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1082	17	1096
2	1098	18	1097
3	1097	19	1097
4	960	20	1096
5	1086	21	1095
6	1093	22	1098
7	1095	23	1100
8	1096	24	1149
9	1096	25	1101
10	1096	26	1103
11	1096	27	1102
12	1096	28	1100
13	1095	29	1100
14	1095	30	1101
15	1096	31	1098
16	1029		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328 UNIT No. Two DATE: 09-08-92
 COMPLETED BY: T. J. Hollomon TELEPHONE: (615) 843-7528
 MONTH: AUGUST 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1103	17	1107
2	1103	18	1106
3	1102	19	1106
4	1103	20	1105
5	1104	21	607
6	1103	22	-19
7	1104	23	92
8	1105	24	610
9	1105	25	1091
10	1105	26	1101
11	1106	27	1035
12	1109	28	635
13	1109	29	654
14	1109	30	678
15	1107	31	779
16	1108		

OPERATING DATA REPORT

DOCKET NO. 50-327
 DATE 09/08/92
 COMPLETED BY I. J. Holloman
 TELEPHONE (615) 843-7528

OPERATING STATUS

- | | Notes |
|---|-------|
| 1. Unit Name: <u>Sequoyah Unit One</u> | |
| 2. Reporting Period: <u>August 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	<u>744</u>	<u>5,855</u>	<u>97,920</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>5,017.6</u>	<u>51,971</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>4,973.5</u>	<u>50,844.6</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,517,620.2</u>	<u>16,239,149.2</u>	<u>165,851,682</u>
17. Gross Electrical Energy Generated (MWH)	<u>837,900</u>	<u>5,530,168</u>	<u>56,197,664</u>
18. Net Electrical Energy Generated (MWH)	<u>808,517</u>	<u>5,321,510</u>	<u>53,886,244</u>
19. Unit Service Factor	<u>100.0</u>	<u>84.9</u>	<u>51.9</u>
20. Unit Availability Factor	<u>100.0</u>	<u>84.9</u>	<u>51.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>96.9</u>	<u>81.0</u>	<u>42.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>94.7</u>	<u>79.2</u>	<u>47.9</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>15.1</u>	<u>39.7</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: _____

OPERATING DATA REPORT

DOCKET NO. 50-328
 DATE 09/08/92
 COMPLETED BY T. J. Hollimon
 TELEPHONE (615) 843-7528

OPERATING STATUS

- | | |
|--|--------------|
| <ol style="list-style-type: none"> 1. Unit Name: <u>Sequoyah Unit Two</u> 2. Reporting Period: <u>August 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: | <p>Notes</p> |
|--|--------------|

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	5,855	69,880
12. Number of Hours Reactor Was Critical	711.2	4,277.7	53,286
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	701.8	4,189.1	52,232.3
15. Unit Reserve Shutdown Hours	0.0	0	0
16. Gross Thermal Energy Generated (MWH)	2,177,480.6	13,051,283.9	163,978,597
17. Gross Electrical Energy Generated (MWH)	732,391	4,420,773	55,579,064
18. Net Electrical Energy Generated (MWH)	704,231	4,239,519	53,184,483
19. Unit Service Factor	94.3	71.5	58.1
20. Unit Availability Factor	94.3	71.5	58.1
21. Unit Capacity Factor (Using MDC Net)	84.4	64.5	52.7
22. Unit Capacity Factor (Using DER Net)	82.5	63.1	51.5
23. Unit Forced Outage Rate	5.7	2.6	34.3
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: AUGUST 1992DOCKET NO: 50-327UNIT NAME: OneDATE: 09/08/92COMPLETED 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
7	920804	F		G	5				At 0959 Eastern daylight time (EDT), Operations and Maintenance personnel were attempting to isolate the electrohydraulic control oil to each pair of intercept and reheat valves on the moisture separator reheater (MSR) to identify individual servo valves with excessive leakage and to potentially correct a cycling problem. During the troubleshooting process, both flow paths from the "A" MSRs to the low pressure turbine "A" were inadvertently isolated simultaneously. The resulting high pressure in the remaining MSRs caused the lifting of several safety valves. The operators immediately opened the isolated intercept and reheat valves. This transient resulted in a turbine runback to 75 percent power as a result of a high-level bypass of the No. 3 heater drain tank. Following the runback, the plant was stabilized at 72 percent power at 1010 EDT. Unit 1 was again at 100 percent power on August 5, 1992, at 0127 EDT.

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-Some Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: AUGUST 1992DOCKET NO: 50-328
UNIT NAME: Two
DATE: 09/08/92
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
5	920821	F	42.2	G	3				A reactor trip occurred at approximately 1327 EDT when a spurious signal, generated on all four pressurizer pressure channels, initiated a low pressurizer pressure trip signal and two of three channels generated an automatic safety injection signal. Unit 2 entered Mode 3. An investigation revealed the most probable cause to be an inadvertent radio transmission in the seal cable area. Unit 2 was again critical on August 22 at 2207 EDT; entered Mode 1 on August 23 at 0455 EDT; and tied online at 0732 EDT that day. On August 24 at 1540 EDT, Unit 2 was at 68 percent power level and holding for repair work on the 2B condensate booster pump injection water differential pressure switch. At 1738 EDT that day, repairs and postmaintenance testing were complete, and a power level increase was initiated. Unit 2 reached 100 percent power at 0530 EDT on August 25, 1992.
6	920827	F		B	5				Reactor power level was decreased from 100 percent to 56 percent to perform maintenance on both RFPs. A power level decrease was initiated at 1824 EDT and terminated at 2221 EDT. On August 29 at 1522 EDT, repairs were completed

(Continued on next page)

¹F: Forced
S: Scheduled² 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)³ Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation of Existing Outage
5-Reduction
9-Other⁴ Exhibit G-Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG-1022)⁵ Exhibit I-Same Source

DOCKET NO: 50-328
 UNIT NAME: TWO
 DATE: 09/08/92
 COMPLETED BY: T. J. McMillon
 TELEPHONE: (515) 842-7528

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: AUGUST 1992

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 (Cont'd)	920827	F		B	5				and all controls were in automatic. Unit 2 was available for 100 percent power, but at the request of load control, remained at 60 percent reactor power. August 31 at 0400 EDT, Unit 2 power level increase was initiated. At 0635 EDT, the 2B condensate demineralizer booster pump (DBP) failed to start according to procedure. Reactor power level was increased to 80 percent and held until problems with the 2B DBP were resolved. At 1745 EDT, reactor power level increase was resumed, and Unit 2 was at approximately 90 percent reactor power level at the end of August.

- 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