



U.S. Nuclear Regulatory Commission  
Page 2  
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JDS:JWP:PDW

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**ENCLOSURE**

**TENNESSEE VALLEY AUTHORITY  
SEQUOYAH NUCLEAR PLANT (SQN)**

**MONTHLY OPERATING REPORT**

**OCTOBER 2000**

**UNIT 1**

**DOCKET NUMBER 50-327**

**LICENSE NUMBER DPR-77**

**UNIT 2**

**DOCKET NUMBER 50-328**

**LICENSE NUMBER DPR-79**

**OPERATIONAL SUMMARY  
OCTOBER 2000**

**I. SEQUOYAH OPERATIONAL SUMMARY**

**UNIT 1**

Unit 1 generated 4,286 megawatthours (MWh) (gross) electrical power during October with a capacity factor of 0.5 percent. At the beginning of October, Unit 1 was in a forced outage following an unplanned automatic scram. Unit 1 was taken critical on October 5 at 0504 Eastern Daylight Time (EDT) and was returned to service at 1654 EDT.

On October 6, with Unit 1 operating at approximately 48 percent power, the decision was made to remove the unit from service because of continued high vibration problems with the No. 4 reactor coolant pump. Unit shutdown was initiated on October 6 at 0727 EDT. Unit 1 was in Mode 5 at the end of October.

**UNIT 2**

Unit 2 generated 515,229 MWh (gross) electrical power during October with a capacity factor of 59.8 percent. Unit 2 was taken off-line on October 22 at 2200 EDT for the Unit 2 Cycle 10 refueling outage. Unit 2 core offload was completed on October 30 at 0817 EST, and the unit was in "no mode" at the end of October.

**II. CHALLENGES TO THE PRESSURIZER POWER-OPERATED RELIEF VALVES (PORVs) OR PRESSURIZER SAFETY VALVES**

No PORVs or safety valves were challenged in October.

## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327 UNIT NO. ONE DATE: November 3, 2000

COMPLETED BY: Tanya J. Hollomon TELEPHONE: (423) 843-7528

MONTH: OCTOBER 2000

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
1.	0	17.	0
2.	0	18.	0
3.	0	19.	0
4.	0	20.	0
5.	35	21.	0
6.	92	22.	0
7.	0	23.	0
8.	0	24.	0
9.	0	25.	0
10.	0	26.	0
11.	0	27.	0
12.	0	28.	0
13.	0	29.	0
14.	0	30.	0
15.	0	31.	0
16.	0		

**AVERAGE DAILY UNIT POWER LEVEL**

**DOCKET NO.** 50-328 **UNIT NO.** TWO **DATE:** November 3, 2000

**COMPLETED BY:** Tanya J. Hollomon **TELEPHONE:** (423) 843-7528

**MONTH:** OCTOBER 2000

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>	<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL (MWe-Net)</u>
1.	<u>1104</u>	17.	<u>904</u>
2.	<u>1012</u>	18.	<u>897</u>
3.	<u>1006</u>	19.	<u>888</u>
4.	<u>997</u>	20.	<u>880</u>
5.	<u>990</u>	21.	<u>873</u>
6.	<u>976</u>	22.	<u>706</u>
7.	<u>975</u>	23.	<u>0</u>
8.	<u>969</u>	24.	<u>0</u>
9.	<u>961</u>	25.	<u>0</u>
10.	<u>951</u>	26.	<u>0</u>
11.	<u>945</u>	27.	<u>0</u>
12.	<u>941</u>	28.	<u>0</u>
13.	<u>929</u>	29.	<u>0</u>
14.	<u>930</u>	30.	<u>0</u>
15.	<u>915</u>	31.	<u>0</u>
16.	<u>910</u>		

## OPERATING DATA REPORT

Docket No.	50-327
Date:	November 3, 2000
Completed By:	T. J. Hollomon
Telephone:	(423) 843-7528

1. Unit Name:	SQN Unit 1
2. Reporting Period:	October 2000
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):	1161
7. Maximum Dependable Capacity (Net MWe):	1122

8. If changes Occur in Capacity Rating (Item Numbers 3 & 7) Since Last Report, Give Reasons: N/A

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	7,320	169,513
12. Number of Hours Reactor was Critical	26.6	5,884.9	107,522
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	14.8	5,846.4	105,633.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWh)	18,448.4	19,324,409.8	347,102,912.4
17. Gross Electric Energy Generated (MWh)	4,286	6,643,418	118,571,665
18. Net Electrical Energy Generated (MWh)	0.0	6,408,508	114,001,063
19. Unit Service Factor	2.0	79.9	62.3
20. Unit Availability Factor	2.0	79.9	62.3
21. Unit Capacity Factor (Using MDC Net)	0.0	78.0	59.9
22. Unit Capacity Factor (Using DER Net)	0.0	76.3	58.6
23. Unit Forced Outage Rate	98.0	13.2	25.8

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): This information is no longer required by NRC.

25. If Shutdown at End of Report Period, Estimate Date of Startup. N/A

## OPERATING DATA REPORT

Docket No.	50-328
Date:	November 3, 2000
Completed By:	T. J. Hollomon
Telephone:	(423) 843-7528

1. Unit Name:	SQN Unit 2
2. Reporting Period:	October 2000
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):	1156
7. Maximum Dependable Capacity (Net MWe):	1117

8. If changes Occur in Capacity Rating (Item Numbers 3 & 7) Since Last Report, Give Reasons: N/A

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	7,320	161,473
12. Number of Hours Reactor was Critical	526.0	7,059.8	111,616
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	526.0	7,052.1	109,587.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWh)	1,474,783.2	23,602,955.3	353,851,511.0
17. Gross Electric Energy Generated (MWh)	515,229	8,120,066	120,722,592
18. Net Electrical Energy Generated (MWh)	493,365	7,856,848	116,040,770
19. Unit Service Factor	70.6	96.3	67.9
20. Unit Availability Factor	70.6	96.3	67.9
21. Unit Capacity Factor (Using MDC Net)	59.3	96.1	64.3
22. Unit Capacity Factor (Using DER Net)	57.7	93.5	62.6
23. Unit Forced Outage Rate	0.0	0.7	24.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): This information is no longer required by NRC.

25. If Shutdown at End of Report Period, Estimate Date of Startup. N/A

**UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH: OCTOBER 2000**

**DOCKET NO:** 50-327  
**UNIT NAME:** SQN-1  
**DATE:** November 3, 2000  
**COMPLETED BY:** T. J. Hollomon  
**TELEPHONE:** (423) 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
4	001001	F	112.9	A	4				Continuation of the forced outage as a result of the automatic scram on September 25. Unit 1 was returned to service on October 5 at 1654 EDT.
5	001006	F	617.3	B	1				On October 6 at 0727 EDT, a shutdown was initiated on Unit 1 following continuing high vibration problems on the No. 4 reactor coolant pump (RCP). The No. 4 RCP was replaced.

<sup>1</sup> **F: Force**  
**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 (NUREG 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: OCTOBER 2000**

**DOCKET NO:** 50-328  
**UNIT NAME:** SQN-2  
**DATE:** November 3, 2000  
**COMPLETED BY:** T. J. Hollomon  
**TELEPHONE:** (423) 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
2	001022	S	219.0	C	1				Unit 2 was removed from service at 2200 EDT on October 22 for the Unit 2 Cycle 10 refueling outage.

<sup>1</sup> **F: Force**  
**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 (NUREG Preparation of Data Entry sheets for Licensee Event Report (LER) File - NUREG - 1022**

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