

TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR POWER
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT
NOVEMBER 1, 1982 - NOVEMBER 30, 1982

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

Submitted By:

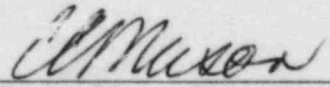

Power Plant Superintendent

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Operations Summary

November 1982

The following summary describes the significant operational activities for the month of November. In support of this summary, a chronological log of significant events is included in this report.

Unit 1

The refueling/modification outage continued during the month. Core loading was completed on November 10, 1982.

Unit 2

Unit 2 was critical for 290.62 hours, produced 326,350 MWH (gross) with 4.49 percent station service use, resulting in an average hourly gross load of 1,124,806 kW during the month. The net heat rate for the month was 10,490 BTU/KWH. There are 182.2855 full power days estimated remaining until the end of cycle 1 fuel. With a capacity factor of 85 percent the target EOC exposure would be reached July 2, 1983. The capacity factor for the month was 39.0 percent.

There was one reactor scram, one manual shutdown, and no power reductions during November.

Significant Operational Events

Unit 1

<u>Date</u>	<u>Time</u>	<u>Event</u>
11/01/82	0001	Mode 6 no fuel in core. Refueling modification outage continues.
11/02/82	1707	First fuel bundle loaded in core.
11/10/82	1700	All fuel assemblies loaded in core.
11/20/82	0800	Unit One in mode 5.
11/30/82	2400	Reactor in mode 5. The refueling/modification outage continues.

Unit 2

11/01/82	0001	Reactor at 97%, 1140 MWe, #3 governor valve fully closed.
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Significant Operational Events

(Continued)

Unit 2

<u>Date</u>	<u>Time</u>	<u>Event</u>
11/12/82	0600	Reactor at 97%, 1140 MWe, #3 governor valve fully closed.
	2100	Began load reduction for ice weighing outage.
11/13/82	0100	Reactor at 30%, 327 MWe and decreasing.
	0203	Offline, reactor at 8%. Beginning turbine overspeed test.
	0237	Reactor trip during overspeed test, Lo-Lo #3 S/G level.
	0827	Began maintenance on #3 governor valve.
	1020	Began cooldown.
	1945	Mode #4.
11/14/82	0600	Mode #5.
	1500	Began ice weighing.
11/17/82	1115	Began maintenance on H ₂ leak on the exciter end of the generator.
11/21/82	0600	Began maintenance on the fan blades on the main generator.
	0700	Ice weighing complete.
11/30/82	2400	Outage continues.

PORV's and Safety Valves Summary

No PORV's or safety valves were challenged during the month.

Licensee Events and Special Reports

The following Licensee Event Reports (LER's) were sent during November 1982, to the Assistant Director of Nuclear Power (Operations) for reporting to the Nuclear Regulatory Commission.

Licensee Events and Special Reports

(Continued)

Unit 1

<u>LER</u>	<u>SUBJECT</u>
SQRO-50-327/82123	The control room emergency ventilation system was inoperable due to fan suction dampers vibrating closed.
SQRO-50-327/82124	The liquid radwaste effluent line monitor was inoperable due to a high background count rate.
SQRO-50-327/82126	MSV check valve failed because the disc was separated from the stem.
SQRO-50-327/82128	Both trains of control room emergency ventilation system were inoperable due to normal pressurization fan being removed.
SQRO-50-327/82130	Minimum average ice weight per basket was less than the required in rows one and two of group one baskets.
SQRO-50-327/82131	One nuclear instrument system (NIS) source range detector channel was declared inoperable due to spiking on channel.

Unit 2

SQRO-50-328/82122	Pressurizer pressure switch 2-PS-68-3233 failed due to loss of power caused by a loose fuse.
SQRO-50-328/82125	The ERCW effluent line monitor RM-90-134/141 was inoperable due to the pump to motor coupling failing.
SQRO-50-328/82127	Cooling jacket circulating water pump on diesel generator 2B-B was inoperable due to a ball bearing failure.
SQRO-50-328/82129	Letdown orifice containment isolation valve 2-FCV-62-73 failed shut due to a shorted coil relay.
SQRO-50-328/82132	One residual heat removal pump was declared inoperable due to failure of the discharge flow switch 2-FIS-74-12 to actuate.

Special Reports

There was one special report sent during the month of November.

82-5 Door A-64 was breached for greater than seven days.

Offsite Dose Calculation Manual Changes

There were no changes to the Sequoyah Nuclear Plant ODCM during November.

OPERATING DATA REPORT

DOCKET NO. 50-327
 DATE December 4, 1982
 COMPLETED BY M. Eddings
 TELEPHONE (615) 751-0343

OPERATING STATUS

1. Unit Name: Sequoyah One
2. Reporting Period: November, 1982
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1220.58
5. Design Electrical Rating (Net MWe): 1148
6. Maximum Dependable Capacity (Gross MWe): 1163
7. Maximum Dependable Capacity (Net MWe): 1128
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	720	8016	12,433
12. Number of Hours Reactor Was Critical	0	4734.4	7535.7
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	0	4629.1	7319.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	15,217,828	23,282,782
17. Gross Electrical Energy Generated (MWH)	0	5,111,586	7,757,536
18. Net Electrical Energy Generated (MWH)	0	4,908,979	7,436,003
19. Unit Service Factor	0	57.7	58.9
20. Unit Availability Factor	0	57.7	58.9
21. Unit Capacity Factor (Using MDC Net)	0	54.3	53.0
22. Unit Capacity Factor (Using DER Net)	0	53.3	52.0
23. Unit Forced Outage Rate	0	17.1	17.8
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: 12-25-82
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	7-4-80	7-5-80
INITIAL ELECTRICITY	8-21-80	7-22-80
COMMERCIAL OPERATION	7-1-81	7-1-81

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327
 UNIT One
 DATE December 3, 1982
 COMPLETED BY M. Eddings
 TELEPHONE (615) 751-0343

MONTH November

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>---</u>

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.

50-327

UNIT NAME

Sequoyah One

DATE

December 4, 1982

COMPLETED BY

M. Eddings

TELEPHONE

(615) 751-0343

REPORT MONTH November

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method Of Shutting Down Reactor ³	Licensee Event Report#	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
3	82/09/11	S	770	C	1				Refueling/Modification Outage

1

F: Forced
S: Scheduled

2

Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3

Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Cont. of Existing
Outage
5-Reduction
9-Other

4

Exhibit G-Instructions
for Preparation of Data
Entry Sheets for Licensee
Event Report (LER) File (NUREG-
0161)

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Exhibit I-Same Source

(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-328
 DATE December 6, 1982
 COMPLETED BY David Dupree
 TELEPHONE (615) 751-0343

OPERATING STATUS

1. Unit Name: Sequoyah Two
2. Reporting Period: November, 1982
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1220.58
5. Design Electrical Rating (Net MWe): 1148
6. Maximum Dependable Capacity (Gross MWe): 1163
7. Maximum Dependable Capacity (Net MWe): 1128
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	720	4,393	4,393
12. Number of Hours Reactor Was Critical	290.6	3,857.5	3,857.5
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	290.05	3,802.95	3,802.95
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	957,632.6	12,122,486	12,122,486
17. Gross Electrical Energy Generated (MWH)	326,250	4,080,840	4,080,840
18. Net Electrical Energy Generated (MWH)	311,574	3,926,290.6	3,926,290.6
19. Unit Service Factor	40.3	86.6	86.6
20. Unit Availability Factor	40.3	86.6	86.6
21. Unit Capacity Factor (Using MDC Net)	38.4	79.2	79.2
22. Unit Capacity Factor (Using DER Net)	37.7	77.9	77.9
23. Unit Forced Outage Rate	0	2.06	2.06
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: 12-27-82
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	<u>11-5-81</u>	<u>11-5-81</u>
INITIAL ELECTRICITY	<u>12-23-81</u>	<u>12-23-81</u>
COMMERCIAL OPERATION	<u>6-1-82</u>	<u>6-1-82</u>

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328
 UNIT Two
 DATE December 6, 1982
 COMPLETED BY David Dupree
 TELEPHONE (615) 751-0343

MONTH November

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1,089</u>
2	<u>1,084</u>
3	<u>1,087</u>
4	<u>1,093</u>
5	<u>1,093</u>
6	<u>1,094</u>
7	<u>1,094</u>
8	<u>1,096</u>
9	<u>1,099</u>
10	<u>1,099</u>
11	<u>1,092</u>
12	<u>1,084</u>
13	<u>24</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>---</u>

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.

50-328

UNIT NAME

Sequoyah Two

DATE

December 6, 1982

COMPLETED BY

David Dupree

TELEPHONE

(615) 751-0343

REPORT MONTH November

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method Of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
19	82/11/13	S	429.95	n	1				Ice Weighing Per Technical Specifications. Manual Shutdown.

1

F: Forced
S: Scheduled

2

Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3

Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Cont. of Existing
Outage
5-Reduction
9-Other

4

Exhibit G-Instructions
for Preparation of Data
Entry Sheets for Licensee
Event Report (LER) File (NUREG-
0161)

5

Exhibit I-Same Source

(9/77)

Plant Maintenance Summary

The following significant maintenance items were completed during the month of November 1982:

Mechanical Maintenance

1. Inspecting auxiliary feedwater check valves 2-830, -832, -873, and -874 to see if the seat and disk match. Modified the bushings on those that did not match.
2. Repaired cracked stud in 1-VLV-1-624 and re-installed disk on 1-VLV-1-63 (broke off and went down the line).
3. Installed new rupture disk on Unit One upper head injection.
4. Added additional ice in Unit One ice condenser.

Electrical Maintenance

1. Completed modifications on Unit One reactor coolant pump motors.
2. Initiated installation of dimension 2000 telephone system.
3. SI-289.1 and SI-289.2 - checked hydrogen igniters with infrared thermometer for temperature.
4. Installed new telephone system in the technical support center.
5. Investigated Unit Two hydrogen gas leak revealing fan blade problems.

Instrument Maintenance

There were no significant maintenance items.

Field Services Maintenance

Work continues on the following items:

1. Containment personnel airlock penetrations - install telephones, door annunciation and lighting inside of airlocks on Unit 1 and Unit 2.
2. Common station service transformer - split "A" and "B" common station service transformer into 1A, 1B, 2A and 2B and the installation of the new CSST "C" transformer.
3. Containment hydrogen mitigation system - work continues on the hydrogen mitigation system in containment and the auxiliary building.

Field Services Maintenance

(Continued)

4. Gaseous effluent radiation monitoring - new monitoring system is being installed in auxiliary building ventilation stack, Unit 1 and Unit 2, reactor building exhaust stacks, and the service building exhaust stack.
5. Post accident sampling facility work continues on installation of sampling system and tie-in to the ABGTS ventilation system.
6. Outage work on Unit 1 main turbine - reassembly of main turbine and generator.
7. Unit 2 main turbine generator outage work during inspection of generator on Unit 2 found stationary and rotating fan blades to be damaged. Outage extended to repair generator.