TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR POWER
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

AUGUST 1, 1982 - AUGUST 31, 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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August 1982

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

Unit 1

Unit 1 was critical for 744 hours, produced 846,830 MWH (gross) with 3.30 percent station service use resulting in an average hourly gross load of 1,138,212 KW during the month. The net heat rate for the month was 10,600 BTU/KWH. There are 2.98 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 September 3, 1982. The capacity factor for the month was 97.9 percent.

There were no reactor scrams, no manual shutdowns, and one power reduction during August.

Unit 2

Unit 2 was critical for 736.3 hours, produced 811,640 MWH (gross) with 3.45 percent station service use, resulting in an average hourly gross load of 1,104,828 kW during the month. The net heat rate for the month was 10,430 BTU/KWH. There are 247.27 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 June 17, 1983. The capacity factor for the month was 93.8 percent.

There was one reactor scram, no manual shutdowns, and one power reduction during August.

Significant Operational Events

Date	Time	Event	
08/01/82	0001	Reactor in mode 1 at 100% power producing 1145 MWe.	
08/21/82	0014	Reactor at 100% power producing 1145 MWe. 3A heater drain tripped due to a low cil level. The reactor power was reduced to 90% and the turbine was manually ran back to 85% power.	

Significant Operational Events

(Continued)

Date	Time	Event
08/21/82	0017	Auto turbine runback to \cong 75%. Manually ran back to 65%.
	0030	Began power ascension.
	0130	Reactor at 85% power and holding.
	0330	Began increasing power.
	0505	Reactor at 100% power producing 1145 MWe.
08/27/82	0440	Began reducing power to clear the hi-steam flow bistables for SI-90.6.
	0643	Reactor at 92.5% power.
	0905	Began power ascension.
	1430	Reactor at 100% power producing 1145 MWe.
08/31/82	2359	Reactor in mode 1 at 100% power producing 1145 MWe.
		Unit 2
08/01/82	0001	Reactor in mode 1 at 100% power producing 1140 MWe.
08/05/82	0640	Began reducing load for maintenance on #3A heater drain tank pump motor.
	0800	Reactor at 98% power, producing 1112 MWe.
	0825	Began power ascension.
	1000	Reactor at 100% power, producing 1140 MWe.
08/11/82	0841	Began reducing load to check the oil level of #1 reactor coolant pump.
	1300	Reactor at 25% power producing 230 MWe.
	1637	Began power ascension.

Significant Operational Events

(Continued)

Date	Time	Event
08/11/82	1830	Reactor at 74% power, producing 847 MWe and holding for maintenance on #7A heater drain tank pump motor.
	2300	Reactor at 70% power, producing 843 MWe.
08/12/82	0229	Began power ascension.
	1325	Reactor at 100% power, producing 1150 MWe.
08/26/82	1041	Began power reduction for maintenance on #7B heater drain tank pump.
	1214	Reactor at 90% power.
	1425	Began power ascension.
	1610	Reactor at 100% power, producing 1150 MWe.
08/27/82	2001	Feedwater valve 3-48 failed closed due to water in the junction box causing the reactor to trip.
08/28/82	0345	Reactor taken critical.
	0523	Unit tied on line. Power increased to 30% and holding for secondary chemistry.
	1901	Began power ascension.
08/29/82	0618	Reactor at 100% power producing 1135 MWe.
	1235	Began load reduction to repair an oil leak on #3C heater drain tank pump.
	1300	Reactor at 93% power, producing 1080 MWe.
	1322	Began power ascension.
	1515	Reactor at 100% power.
08/31/82	2359	Reactor in mode 1 at 100% power, producing 1150 MWe.

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 August 1982, to the Assistant Director of Nuclear Power (Operations) for reporting to the Nuclear Regulatory Commission.

LER	SUBJECT
SQRO-50-327/82093	The ice condenser intermediate deck doors were iced over and would not pass SI-108 (Lift Test) due to a ruptured drain line leaking water.
SQRO-50-327/82094	Diesel generator 1A-A was inoperable due to a broken oil sight glass.
SQRO-50-327/82095	A Westinghouse review discovered that an undetectable failure could exist in the on-line test system of the solid state protection system (SSPS) due to the possible failure of the switch contacts to close.
SQRO-50-327/82097	The upper containment personnel airlock inner door locking mechanism failed due to a broken pin on the door latch bar connecting rcd. This was caused by a weld failure during normal operation.
SQRO-50~327/82098	Waste gas decay tank C oxygen concentration indicated 2.74%. This was due to air in-leakage and the monitor was reading high due to a zero shift in the calibration of the indicator.
SQRO-50-327/82099	Refueling water storage tank level channel 1-LT-63-50 failed low due to a faulty circuit board in the transmitter.
SQRO-50-327/82100	AFW automatic control valve 1-LCV-3-174 would not operate in manual due to a leaking diaphragm at the operator flange.
SQRO-50-327/82101	The neutron instrumentation power range channel N41 failed low due to a defective high range power supply.
SQRO-50-327/82102	1A1-A control and auxiliary vent boards tripped rendering various ventilation equipment and rad monitors inoperable. They tripped due to a burned out phase bus link caused by a loose connection.

Licensee Events and Special Reports

Unit 2

LER	SUBJECT
SQRO-50-328/82096	Safety injection pump 2A-A failed to start due to an improperly locked locking ring on a plug connector in the back of the handswitch.
SQRO-50-328/82103	Pressurizer relief tank level channel 2-LT-68-312C failed due to a malfunction in the loop transmitter section. This instrument has been deleted by a Tech Spec change.
SQRO-50-328/82104	Overpower delta temperature channel 2-TI-68-2D failed low due to the resistance to voltage converters having an instrument span shift. This resulted in the out-of-tolerance indications.
SQRO-50-328/82105	Refueling water storage tank level channel 2-LT-63-52 failed low due to a faulty amplifier card.

Special Reports

There were no special reports sent during the month of August.

Offsite Dose Calculation Manual Changes

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

OPERATING DATA REPORT

		DOCKET NO.	50-327	
		DATE	September 4	, 1982
	C	OMPLETED BY	M. Eddin	gs
		TELEPHONE	(615) 751-	
		TELEPHONE _	(013) 731	0343
	OPERATING STATUS			
1.	Unit Name: Sequoyah One	Not	tes	
2.	Reporting Period: August 1982			
3.	Licensed Thermal Power (MWt): 3411	EO		
4.	Nameplate Rating (Gross MWe): 1220 Design Electrical Rating (Net MWe): 1148	. 30		
5.	Maximum Dependable Capacity (Gross MWe):	1162		
7.	Maximum Dependable Capacity (Net MWe):	1163 1128		
8.	If Changes Occur in Capacity Ratings (Items	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	nuch 7) Since	Last
٠.	Report, Give Reasons:	number 5 int.	rught // Dince	
	Report, orre Readons.			
				THE RESERVE OF
9.	Power Level To Which Restricted, If Any (Ne	t MWe):		
	Reasons For Restrictions, If Any:			
		This Month	Yr-to-Date	Cumulative
		7 4000		
11.	Hours in Reporting Period	744	5831	10248
12.	Number of Hours Reactor Was Critical	744	4,489.7	7,291
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	744	4,385.3	7,075.6
15.	Unit Reserve Shutdown Hours			
16.	Gross Thermal Energy Generated (MWH)	2,533,093	14,397,772	22,462,726
17.	Gross Electrical Energy Generated (MWH)	846,830	4,838,000	7,483,950
18.	Net Electrical Energy Generated (MWH)	818,626	4,646,486	7,173,510
19.	Unit Service Factor	100	75.2	69.0
20.	Unit Availability Factor Unit Capacity Factor (Using MDC Net)	97.5	70.6	62.1
		95.9	69.4	61.0
22.	Unit Capacity Factor (Using DER Net)	0	18.0	18.3
24.	Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (Type		AND DESCRIPTION OF THE PARTY OF	Annual Control of the
24.	Refueling/Modification Outage, September 1			CII).
	Refueling/Modification outage, Deptember 1	o (Scheddred),	O HOHEHS	
25.	If Shut Down At End Of Report Period, Estim	ated Date of S	tartun.	
26.	Units In Test Status (Prior to Commercial O		carcup.	
.0.	onics in rest seateds (First to commercial o	peracton).		
		Forecast	Achiev	ed
		Torcease	Active	-
	INITIAL CRITICALITY	7-4-80	7-5-8	0
	INITIAL ELECTRICITY	8-21-80	7-22-	
	COMMERCIAL OPERATION	7-1-81	7-1-8	
	COURTEMOTAL OF ENATION			-

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-327
UNIT	Sequoyah One
DATE	September 4, 1982
COMPLETED BY	M. Bradford
TELEPHONE	(615) 751-0343

MONTH	August		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1,102	17	1,097
2	1,101	18	1,105
3	1,103	19	1,103
4	1,099	20	1,104
5	1,099	21	1,076
6	1,100	22	1,107
7	1,100	23	1,105
8	1,099	24	1,102
9	1,099	25	1,102
10	1,101	26	1,099
11	1,101	27	1,084
12	1,103	28	1,100
13	1,105	29	1,099
14	1,105	30	1,100
15	1,102	31	1,101
16	1,101		

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)

August

REPORT MONTH

DOCKET NO. UNIT NAME 50-327

DATE

Sequovah One September 4, 1982 M. Eddings

COMPLETED BY TELEPHONE

(615) 751-0343

Method of Shutting own Reactor³ Component Code 5 Cause & Corrective Licensee Reason² Duration (Hours) System Code⁴ No. Date Type1 Event Action to Prevent Recurrence Report # 2 82/08/21 F 5 A #3 heater drain tank pump trip on Lo oil level. Turbine ran back to 65%.

ò

F: Forced

S: Scheduled

A-Equipment Failure (Explain)

B-Maintenance or Test

D-Regulatory Restriction

E-Operator Training & License Examination

F-Administrative

H-Other (Explain)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram. 4-Cont of Existing

Outage 5-Reduction

9-Other

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

Exhibit I-Same Source

(9/77)

Reason:

C-Refueling

G-Operational Error (Explain)

OPERATING DATA REPORT

		DOCKET NO.	50-32	.8
		DATE	September	4, 1982
		COMPLETED BY	David Du	pree
			(615) 751	
		TELEPHONE _	(013) 731	-0343
	OPERATING STATUS			
1.	Unit Name: Sequoyah Two Reporting Period: August, 1982	NO.	tes	
3.	Licensed Thermal Power (MWt): 3411			
4.	Nameplate Rating (Gross MWe): 1220.5	8		
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		ough 7) Since	Last
	Report, Give Reasons:			
				The state of the s
0	5 1 0 10 10 1 10 1 10 1 10 1	. 101		
9.	그렇게 되면 하는 것이 없는 것이었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없	t MWe):		
10.	Reasons For Restrictions, If Any:			
-				
		This Month	Yr-to-Date	Cumulative
11.	Hours in Reporting Period	744	2208	2208
12.	Number of Hours Reactor Was Critical	736.3	2177.6	2177.6
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	734.6	2137.6	2137.6
5.	Unit Reserve Shutdown Hours	0	0	0
6.	Gross Thermal Energy Generated (MWH)	2,386,212.4	6,802,570.4	6,802,570.4
7.	Gross Electrical Energy Generated (MWH)	811,640	2,294,770	2,294,770
8.	Net Electrical Energy Generated (MWH)	783,678.6	2,211,259.6	2,211,259.6
9.	Unit Service Factor	98.7	96.8	96.8
20.	Unit Availability Factor	98.7	96.8	96.8
11.	Unit Capacity Factor (Using MDC Net)	93.4	88.8	88.8
2.	Unit Capacity Factor (Using DER Net)	91.7	87.2	87.2
3.	Unit Forced Outage Rate	1.3	2.2	2.2
4.	Shutdowns Scheduled Over Next 6 Months (Typ	e, Date, and	Duration of Ea	ch):
	Ice Weighing, 11-4-82, Per Technical Specif	ications		
-	TO CLUB AND LOCK DOWN DOWN TO THE POST		C	N A
25.	If Shut Down At End Of Report Period, Estim		Startup:	NA
.6.	Units In Test Status (Prior to Commercial O	peration):		
		Personal	A which are	
		Forecast	Achiev	ed
	INITIAL CRITICALITY	11-5-81	11-5-8	1
	INITIAL ELECTRICITY	12-31-81	12-31-	
	COMMERCIAL OPERATION	6-1-82	6-1-82	
	COMBRETAL OFERATION	-102	0 1 02	_

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-328
UNIT	Sequoyah Two
DATE	September 3, 1982
COMPLETED BY	David Dupree
TELEPHONE	(615) 751-0343

MONTH	August 1982		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1,104	17	1,101
2	1,104	18	1,099
3	1,105	19	1,104
4	1,103	20	1,107
5	1,399	21	1,107
6	1,100	22	1,105
7	1,100	23	1,106
8	1,100	24	1,104
9	1,101	25	1,103
10	1,101	26	1,085
11	762	27	915
12	1,008	28	241
13	1,105	29	1,058
14	1,105	30	1,103
15	1,105	31	1,096
16	1,103		

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 DATE

Sequoyah Two September 4, 1982 David Dupree

REPORT MONTH

August

COMPLETED BY TELEPHONE (615) 751-0343

No.	Date	Type1	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Code5	Cause & Corrective Action to Prevent Recurrence
4	82/08/11	F	0	В	5				Reduce load to 25% for maintenance on #1 R.C.P. oil level.
6	82/08/27	F	9.4	A	3				Water in junction box caused a short in solenoid circuit. Valve 3-48 (loop #2) failed closed caused unit to trip.
		Spender of Control of							

F: Forced

A-Equipment Failure (Explain)

B-Maintenance or Test

D-Regulatory Restriction

E-Operator Training & License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Cont. of Existing

Outage 5-Reduction

9-Other

0161)

Exhibit I-Same Source

Exhibit G-Instructions

for Preparation of Data

Entry Sheets for Licensee

Event Report (LER) File (NUREG-

S: Scheduled

Reason:

C-Refueling

(9/77)

Plant Maintenance Summary

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

Mechanical Maintenance

- Allis-Chalmer concentrate pumps were installed on the boric acid evaporator package A.
- 2. Both Unit 1 and 2 positive displacement charging pumps were repacked and their plungers replaced.

Electrical Maintenance

- 1. Rebuilding of the spare reactor coolant pump motor continues.
- 2. 1A-A control and auxiliary vent board phase bus link was replaced.

Instrument Maintenance

None reportable.