TENNESSEE VALLEY AUTHORITY DIVISION OF NUCLEAR POWER SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT JULY 1, 1982 - JULY 31, 1982

> UNIT 1 DOCKET NUMBER 50-327 LICENSE NUMBER DPR-77

> DOCKET NUMBER 50-328 LICENSE NUMBER DPR-79

UNIT 2

Power Plant Superintendent and de d By:

8209240261 820811 PDR ADOCK 05000327 R PDR

1. 1

TABLE OF CONTENTS

Operations Summary	1			•	*,	÷	•		* 1		*	÷	×	×	÷	÷			1
Significant Operational Events	ķ			÷			*		•	÷	×	۰.	×	•					1-2
PORV's and Safety Valves Summary .		×. 1	-		,		•		4	•			×		*		÷		2
Licensee Events and Special Reports				ł	*			×	*						×				3-4
Offsite Dose Calculation Manual Cha	ng	es							ł		*		*		÷				5
Operating Data																			
Unit 1	ć							÷		*		,	÷	÷	×		Ļ	÷	6-8
Unit 2		•					÷							•					9-11
Plant Maintenance Summary		•			4				•						1				12
Field Services Maintenance Summary			Ι,	÷									÷						12

July 1982

The following summary describes the significant operational activities for the month of July. 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 850,930 MWH (gross) with 3.32 percent station service use resulting in an average hourly gross load of 1,114,723 KW during the month. The net heat rate for the month was 10,545 BTU/KWH. There are 33.92 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 9, 1982. The capacity factor for the month was 98.3 percent.

There were no reactor scrams, no manual shutdowns, and no power reductions during July.

Unit 2

Unit 2 was critical for 744 hours, produced 836,720 MWH (gross) with 3.49 percent station service use, resulting in an average hourly gross load of 1,124,624 kW during the month. The net heat rate for the month was 10,600 BTU/KWH. There are 276.42 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 22, 1983. The capacity factor for the month was 96.7 percent.

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

Significant Operational Events

Unit 1

Date	Time	Event
07/01/82	0001	Reactor in mode 1 at 100% power pro- ducing 1145 MWe.
07/09/82	2345	Reactor reduced to 92% power, 1038 MWe for SI-90.1 - Reactor Trip Instrumentation Monthly Check.
07/10/82	0530	Reactor at 100% power producing 1145 MWe.

Significant Operational Events

(Continued)

Unit 1

Date	Time	Event
07/29/82	0625	Reactor at 96% power for SI-90.6 and SI-90.7 steam flow bistables.
	1700	Reactor at 100% power producing 1145 MWe.
07/31/82	2355	Reactor in mode 1 at 100% power pro- ducing 1145 MWe.
		Unit 2
07/01/82	0001	Reactor in mode 1 at 100% power pro- ducing 1140 MWe.
	0622	Reactor at 95% power producing 1120 MWe for SI-90.62 - Steam Flow Bistables.
	1400	Reactor at 100% power producing 1150 MWe.
07/13/82	2215	Began power reduction for an ice condenser inspection.
07/14/82	0345	Reactor at 23% power producing 189 MWe and holding while an inspection team is in the ice condenser.
	1749	Began power ascension.
	2130	Reactor at 100% power producing 1140 MWe.
07/30/82	0755	Reactor at 93% power for SI-90.72 - Steam Flow Deviation.
	1135	Reactor at 100% power producing 1140 MWe.
07/31/82	2359	Reactor in mode 1 at 100% power producing 1140 MWe.

Sequoyah Nuclear Plant had a station capacity factor of 97.5% with a combined gross output of 1,687,650 MWH's for the month.

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

Unit 1

LER

SUBJECT

- SQR0-50-327/82074 AFW automatic control valve 1-LCV-3-171 failed to open on demand due to low controller output signal. AFW valve 1-LCV-3-122 inoperable due to a failed hydraulic pump motor caused by a deadheaded pump.
- SQR0-50-327/82075 Steam generator blowdown containment isolation valve 1-FCV-1-7 failed closed and would not open. The valve operator diaphragm ruptured due to high temperatures.
- SQR0-50-327/82076 The ice condenser ice bed temperature monitoring system was inoperable. A wire was broken when the recorder drawer was being pulled out.
- SQR0-50-327/82078 The oxygen concentration in the waste gas decay tank J was found to be 8.1% by grab sample. The oxygen monitor was inoperable due to out of spec calibration gas.
- SQR0-50-327/82079 RWST level channel 1-LT-63-51 bistable was left in the test position, therefore, the channel was inoperable.
- SQR0-50-327/82080 Various room coolers and other equipment was inoperable when the control and auxiliary vent board tripped because of a short in the control transformer to the control building emergency pressurization fan.

SQR0-50-327/82082 AFW level control valve 1-LCV-3-164 failed to control in automatic due to the setpoint indicator control belt slipping.

SQR0-50-327/82086 AFW back pressure control valve 1-PCV-3-122 was leaking oil from a cracked tube tee fitting.

SQR0-50-327/82088 Containment hydrogen monitor 1-H₂A-43-210 failed SI-287 due to a clogged sample line orifice.

SQR0-50-327/82089 Waste gas system oxygen analyzer 0-0₂A-43-5000 failed surveillance because of a faulty zero setpoint potentiometer.

Unit 1

(Continued)

LER

SUBJECT

SQR0-50-327/82092 AFW level control valve failed to open in auto during testing due to dirty handswitch contacts.

Unit 2

- SQR0-50-328/82077 An ice condenser intermediate deck door was frozen closed due to a leaking drain line.
- SQR0-50-328/82081 AFW automatic control valve 2-PCV-3-122 failed to open on demand due to leaking oil and servo valve failure. Dirty oil is believed to be the cause.
- SQR0-50-328/82083 Loop 3 steam generator blowdown containment isolation valve would not open due to a grounded wire.

SQR0-50-328/82084 Containment pressure transmitter 2-PDT-30-43 bistable setting was out of limits due to instrument drift.

SQR0-50-328/82085 The ice condenser lower compartment average air temperature was greater than 27°F on two occasions due to leaking valves and air flow through an inoperable fan.

SQR0-50-322/82087 On July 9 at 2100C and July 13 at 0700C one point of the ice condenser ice bed exceeded 27°F. Missing floor drain papers, unsealed inlet doors and an open drain line were found as the cause.

SQR0-50-328/82090 AFW level control valve 2-LCV-3-171 would not open past two-thirds open due to a loose diaphragm spring tension adjustment nut.

SQR0-50-328/82091 Steam generator blowdown containment isolation valve 2-FCV-1-7 would not remain open. The upper limit switch was out of adjustment.

Special Reports

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

Offsite Dose Calculation Manual Changes

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

OPERATING DATA REPORT

50-327	
August 3, 1982	
M. Eddings	
(615) 751-0343	1
	August 3, 1982 M. Eddings

OPERATING STATUS

1.	Unit Name: Sequoyah One	Notes
2.	Reporting Period: July 1982	이 같이 하는 것 같아. 이 것 같아. 말 같아. 소
3.	Licensed Thermal Power (MWt): 3411	
4.	Nameplate Rating (Gross MWe): 1220.58	
5.	Design Electrical Rating (Net MWe): 1148	
	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

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

		This Month	Yr-to-Date	Cumulative
11.	Hours in Reporting Period	744	5087	9504
12.	Number of Hours Reactor Was Critical	744	3745.7	6547
13.	Reactor Reserve Shutdown Hours	0	0	0
14.	Hours Generator On-Line	744	3641.3	6331.6
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	2,532,497	11,864,679	19,929,633
17.	Gross Electrical Energy Generated (MWH)	850,930	3,991,170	6,637,120
18.	Net Electrical Energy Generated (MWH)	822,710	3,827,860	6,354,884
19.	Unit Service Factor	100	71.6	66.6
20.	Unit Availability Factor	100	71.6	66.6
21.	Unit Capacity Factor (Using MDC Net)	98.0	66.7	59.3
22.	Unit Capacity Factor (Using DER Net)	96.3	65.5	58.2
23.	Unit Forced Outage Rate	0	21.0	20.0

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling/modification outage September 10 (scheduled) 6 months.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____
26. Units In Test Status (Prior to Commercial Operation):

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

AVERAGE DAILY UNIT POWER LEVEL

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

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1096	17	1100
2	1094	18	1098
3	1093	19	1098
4	1096	20	1098
5	1097	21	1099
6	1091	22	1098
7	1098	23	1099
8	1099	24	1096
9	1093	25	1098
0	1086	26	1097
1	1098	27	1096
2	1100	28	.1097
3	1101	29	1075
4	1100	30	1096
5	1099	31	1099
6	1102		

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.

-7-

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-327	
UNIT NAME	Sequoyah One	
DATE	August 3, 1982	
OMPLETED BY	M. Eddings	
TELEPHONE	(615) 751-0343	

C

REPORT MONTH July 1982

No.	Date	Type1	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
									1 Mar 10 Mar 10 11 1	wns or Power Reductions Greater During the Month
7: Forc 3: Sche		B-Mail C-Ref D-Reg E-Ope F-A4m	ipment H ntenance ueling ulatory rator Tr inistrat	e or 1 Restr cainin cive	iction	ense Examinat:	1 2 3 4 ion 5	Antonia -Manual -Manual S -Automati -Cont. of Outage -Reductio -Other	c Scram. Existing	4 Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG- 0161) 5

-8-

OPERATING DATA REPORT

DOCKET NO.	50-328
DATE	August 1, 1982
COMPLETED BY	David Dupree
TELEPHONE	(615) 751-0343

OPERATING STATUS

1.	Unit Name: Sequoyah Two	No	Notes			
2.	Reporting Period: July 1982					
3.	Licensed Thermal Power (MWt): 341	1				
4.	Nameplate Rating (Gross MWe): 122	0.58				
5.	Design Electrical Rating (Net MWe): 114	8				
6.	Maximum Dependable Capacity (Gross MWe):	1163				
7.	Maximum Dependable Capacity (Net MWe):	1128				
8.	If Changes Occur in Capacity Ratings (It	ems Number 3 Thr	ough 7) Since	Last		
	Report, Give Reasons:					
-	Turbine will not meet dosign specificati	ons. Unit two i	is rated the sa	ame as		
	Sequoyah One.					
9.	Power Level To Which Restricted, If Any	(Net MWe):				
10.	Reasons For Restrictions, If Any:					
		This Month	Yr-to-Date	Cumulative		
		ints nonen	11-co-bace	cumurative		
11.	Hours in Reporting Period	744	1464	1464		
12.	Number of Hours Reactor Was Critical	744	1441.3	1441.3		
13.	Reactor Reserve Shutdown Hours	0	0	0		
14.	Hours Generator On-Line	744	1402.95	1402.95		
15.	Unit Reserve Shutdown Hours	0	0	0		
16.	Gross Thermal Energy Generated (MWH)	2,498,076.8	4,416,358	4,416,358		
17.	Gross Electrical Energy Generated (MWH)	836,720	1,483,130	1,483,130		
18.	Net Electrical Energy Generated (MWH)	807,539	1,427,581	1,427,581		
19.	Unit Service Factor	100	95.8	95.8		
20.	Unit Availability Factor	100	95.8	95.8		
21.	Unit Capacity Factor (Using MDC Net)	96.2	86.4	86.4		
22.	Unit Capacity Factor (Using DER Net)	94.55	84.9	84.9		
23.	Unit Forced Outage Rate	0.0	4.2	4.2		

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Ice weighing, 11-4-82, per Technical Specifications.

25. If Shut Down At End Of Report Period, Estimated Date of Startup:NA26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved	
INITIAL CRITICALITY	11-5-81	11-5-81	
INITIAL ELECTRICITY	12-31-81	12-31-81	
COMMERCIAL OPERATION	6-1-82	6-1-82	

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-328		
UNIT	Two		
DATE	August 4, 1982		
COMPLETED BY	David Dupree		
TELEPHONE	(615) 751-0343		

MONTH	July 1982		
DAV	AMELOR DATES DOIND ADDR		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1,110	17	1,105
2	1,098	18	1,102
3	1,096	19	1,102
4	1,108	20	1,102
5	1,109	21	1,103
6	1,110	22	1,104
7	1,109	23	1,105
8	1,107	24	1,103
9	1,100	25	1,103
0	1,102	26	1,102
1	1,045	27	1,102
2	1,101	28	1,100
3	1,096	29	1,100
4	500	30	1,090
5	1,103	31	1,102
6	1,105		

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	August 4, 1982		
COMPLETED BY	David Dupree		
TELEPHONE	(615) 751-0343		

REPORT MONTH July

No.	Date	Type1	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	82/07/13	F	0	В	5					ted to 25% reactor power for ice inspection.
: Forc : Sche	duled	B-Mai C-Ref D-Reg	ipment 1 ntenance ueling ulatory	e or T Restr	iction	nin) nse Examinat	1 2 3 4	Method: -Manual 2-Manual So 3-Automatic -Cont. of Outage	c Scram.	4 Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG- 0161)

9-Other

5-Reduction

-111-

(9/77)

F-Administrative

G-Operational Error (Explain) H-Other (Explain)

5 Exhibit I-Same Source The following significant maintenance items were completed during the month of July 1982

Mechanical Maintenance

1. Replaced the turbochargers on diesel generators 2A1 and 2A2.

Electrical Maintenance

1. Repairs continue on the spare reactor coolant pump.

Instrument Maintenance

None reportable.

Field Services Maintenance

- ECN 5158, WP 9119 R1 Diesel Generator Batteries and Racks Replacement -Diesel generator 2A-A batteries and racks were changed out. This ECN is complete.
- ECN 5466, WP 9759 Roof Hatch Alarm 480v rooms 2A and 1A Diesel Generator Building - All work is complete except for painting. The alarms are operational.
- 3. ECN 5464, WP 9761 Vehicle Gate and PA System The ECN is complete.
- ECN 5216 Replacement of Check Valve 1-77-956 With a Diaphragm Valve -This ECN is complete.
- 5. ECN 5376, WP 9715 Fire Protection Valve Post Indicators This ECN is complete.