

TENNESSEE VALLEY AUTHORITY  
DIVISION OF NUCLEAR POWER  
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT  
TO THE  
NUCLEAR REGULATORY COMMISSION  
SEPTEMBER 1, 1983 ~ SEPTEMBER 30, 1983

UNIT 1

DOCKET NUMBER 50-327  
LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328  
LICENSE NUMBER DPR-79

Submitted By: *L. M. Hobbs*  
*for* Power Plant Superintendent

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## Operations Summary

September, 1983

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

### Unit 1

Unit 1 was critical for 390.6 hours, produced 367,940 MWH (gross), resulting in an average hourly gross load of 971,031 kW during the month. There are 73.92 full power days estimated remaining until the end of cycle 2 fuel. With a capacity factor of 85 percent, the target EOC exposure would be reached December 27, 1983. The capacity factor for the month was 43.2 percent.

There was three reactor scrams, there were no manual shutdowns, and there was one power reduction during September.

### Unit 2

The refueling/modification outage continues.

## Significant Operational Events

### Unit 1

<u>Date</u>	<u>Time</u>	<u>Event</u>
09/01/83	0001	Reactor in mode 4 and cooling down to mode 5 to clean-up the condensate and steam generators.
	0830	Reactor entered mode 5.
09/02/83	1640	Reactor entered mode 4.
	2150	Reactor entered mode 3.
09/03/83	1915	Began cooldown. Reactor to be taken to mode 5 to drain the steam generators to remove the contaminants.
	2308	Reactor entered mode 4.
09/04/83	0850	Reactor entered mode 5.
09/10/83	0533	Reactor entered mode 4.

# Significant Operational Events

## Unit 1

(Continued)

<u>Date</u>	<u>Time</u>	<u>Event</u>
09/11/83	1824	Reactor entered mode 3.
09/12/83	0635	Rod M-14 failed to move on demand.
	0840	Shutdown bank B group 1, control bank B and control bank D would not operate.
	0903	During the performance of SI-11 some rods in shutdown bank A failed to step on demand. The reactor trip breakers were opened. A reactor trip was declared by the shift engineer.
	1810	Began cooldown. Reactor to be taken to mode 5 to repair the shutdown rod lift coil.
	2300	Reactor entered mode 4.
09/13/83	0220	Reactor entered mode 5.
	1915	Reactor entered mode 4.
	2340	Reactor entered mode 3.
09/14/83	1151	Reactor taken critical.
	1418	Reactor at 4% power.
	1424	Began increasing reactor power.
	1613	Tied the generator on-line.
	1639	Reactor tripped on a Lo-Lo level in #3 steam generator due to feedwater flow/steam flow mismatch during power ascension.
	1908	Reactor taken critical
	2151	Tied the generator on-line.
09/15/83	0130	Reactor at 30% power producing 310 MWe and holding due to steam generator chemistry.
	1104	Began power ascension.

## Significant Operational Events

(Continued)

### Unit 1

<u>Date</u>	<u>Time</u>	<u>Event</u>
09/16/83	1445	Reactor at 50% power. Began reducing power to 30% due to steam generator chemistry.
	1640	Reactor at 30% power, producing 330 MWe and holding due to steam generator chemistry.
09/17/83	0405	Began power ascension.
	0601	The reactor tripped after MFPT-A tripped due to low injection water.
	0904	Reactor taken critical.
	1341	Tied the generator on-line.
	1422	Reactor at 30% power and holding due to steam generator chemistry.
	2250	Began power ascension.
09/18/83	1000	Reactor holding at 49% power to repair an oil leak on "B" condensate booster pump.
	1142	Began power ascension.
09/18/83	2225	Reactor holding at 85% power for additional maintenance on condensate booster pump.
09/19/83	0135	Resumed power ascension.
	0507	Reactor at 100% power producing 1160 MWe.
09/30/83	2359	Reactor in Mode 1 at 100% power producing 1160 MWe.

### Unit 2

<u>Date</u>	<u>Time</u>	<u>Event</u>
The refueling/modification outage continues.		

## Fuel Performance

### Unit 1

The core average fuel exposure accumulated during September was 520.61 MWD/MTU with the total accumulated core average fuel exposure of 8320.81 MWD/MTU.

### Unit 2

The scheduled outage continues. Reloading the core began again on August 31, 1983 after temporarily being suspended in mid-August due to the clarity of the water. Reloading the core was completed on September 4, 1983.

The core verification mapping (TI-45) was performed via camera/videotape system on September 4, 1983. Also, an inventory was performed via camera/videotape on 136 fuel bundles (units 1 & 2) located in the spent fuel pit.

## 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 September 1983, to the Assistant Director of Nuclear Power (Operations) for reporting to the Nuclear Regulatory Commission.

#### Unit 1

<u>LER</u>	<u>SUBJECT</u>
SQRO-50-327/83110	During the performance of SI-136, EGTS cooldown valves FSV-15-47A and 47B failed to close.
SQRO-50-327/83111	During the performance of SI-102 oil was found in the glycol coolant expansion tank on diesel generator 1A2.
SQRO-50-327/83112	Both trains of the reactor trip automatic actuation logic was inoperable when the reactor trip breaker undervoltage coils were jumpered out and the breakers were closed.
SQRO-50-327/83113	Steam generator effluent line radiation monitor 1-RM-90-120/121 was declared inoperable due to loss of effluent flow.
SQRO-50-327/83115	Auxiliary building gas treatment system damper 1-FCV-30-146A was found with its operator disconnected.
SQRO-50-327/83119	Containment internal pressure limit of +0.3 psig relative to the annulus pressure was exceeded.
SQRO-50-327/83120	During the performance of SI-166.3 when containment sump isolation valve 1-FCV-63-73 was stroked all ice condenser doors opened.

#### Unit 2

<u>LER</u>	<u>SUBJECT</u>
SQRO-50-328/83114	During the performance of SI-200 safety injection pump 2A and both centrifugal charging pumps failed to meet the minimum head curve requirements. Also the CCP boron injection tank and the cold leg injection lines could not be balanced.

Licensee Events and Special Reports

(Continued)

Unit 2

LER

SUBJECT

SQRO-50-328/83118

SI-214 was not performed within its required 72 hour frequency. When it was performed it confirmed that the combination C valves were closed and had been closed with an administrative hold order issued from 09/01 - 09/05/83.

SQRO-50-328/83121

Lower containment airlock failed SI-159.1 - Overall leak rate test. The condition was found in mode 5 but may have existed in the applicable modes per LCO 3.6.1.3.

Special Reports

There were no special reports transmitted during the month of September.

Offsite Dose Calculation Manual Changes

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



# OPERATING DATA REPORT

DOCKET NO. 50-327  
 DATE OCTOBER 12 1983  
 COMPLETED BY M. G. EDDINGS  
 TELEPHONE (615) 870-6248

## OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 1  
 2. REPORT PERIOD: SEPT. 1 THRU SEPT. 30 1983  
 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): 1183.0  
 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1148.0  
 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBERS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:-----  
 -----  
 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	720.00	6551.00	19728.00
12. NUMBER OF HOURS REACTOR WAS CRITICAL	390.60	5593.81	13129.51
13. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
14. HOURS GENERATOR ON-LINE	378.90	5481.60	12801.10
15. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	1106760.35	17761699.15	41044441.15
17. GROSS ELECTRICAL ENERGY GEN. (MWH)	367940.00	6101460.00	13858996.00
18. NET ELECTRICAL ENERGY GENERATED (MWH)	350538.00	5878336.00	13314340.00
19. UNIT SERVICE FACTOR	52.62	83.68	64.89
20. UNIT AVAILABILITY FACTOR	52.62	83.68	64.89
21. UNIT CAPACITY FACTOR (USING MDC NET)	42.41	78.16	58.79
22. UNIT CAPACITY FACTOR (USING DER NET)	42.41	78.16	58.79
23. UNIT FORCED OUTAGE RATE	47.37	9.94	14.62
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	Refueling/Modification, December 16, 1983 for 66 days		
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	-----		

NOTE THAT THE THE YR.-TO-DATE AND  
 CUMULATIVE VALUES HAVE BEEN UPDATED.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327  
UNIT Sequoyah One  
DATE 10-04-83  
COMPLETED BY M. Eddings  
TELEPHONE (615) 870-6248

MONTH SEPTEMBER, 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>192</u>
2	<u>0</u>	18	<u>624</u>
3	<u>0</u>	19	<u>1086</u>
4	<u>0</u>	20	<u>1109</u>
5	<u>0</u>	21	<u>1109</u>
6	<u>0</u>	22	<u>1110</u>
7	<u>0</u>	23	<u>1112</u>
8	<u>0</u>	24	<u>1084</u>
9	<u>0</u>	25	<u>1119</u>
10	<u>0</u>	26	<u>1119</u>
11	<u>0</u>	27	<u>1118</u>
12	<u>0</u>	28	<u>1118</u>
13	<u>0</u>	29	<u>1081</u>
14	<u>21</u>	30	<u>1111</u>
15	<u>257</u>	31	<u></u>
16	<u>327</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 October 4, 1983

COMPLETED BY M. Eddings

TELEPHONE (615) 870-6248

REPORT MONTH SEPTEMBER

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
22	830831	F	328.2	H	1				Condensate demineralized waste evaporator dumped to the condensate system steam generator water chemistry above limits.
23	830914	F	5.2	H	3				#3 Steam generator Lo-Lo level due to steam flow/feedwater flow mismatch.
24	830916	F	0.0	H	5				Reduced reactor power from 50% to 30% due to steam generator chemistry out of specification.
25	830917	F	7.7	A	3				"A" Main feed pump turbine trip on low injection water.

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)

# OPERATING DATA REPORT

DOCKET NO. 50-328  
 DATE 10-12-83  
 COMPLETED BY D.C.DUPREE  
 TELEPHONE (615)870-6543

## OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 2
2. REPORT PERIOD: SEPTEMBER 1 THRU 30, 1983
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): 1163.0
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1128.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBERS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS: \_\_\_\_\_
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	720.00	6551.00	11688.00
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.00	4750.77	8639.47
13. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
14. HOURS GENERATOR ON-LINE	0.00	4715.95	8522.70
15. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.00	15401769.43	27556360.23
17. GROSS ELECTRICAL ENERGY GEN. (MWH)	0.00	5299490.00	9381340.00
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.00	5113057.00	9039347.60
19. UNIT SERVICE FACTOR	0.00	71.99	72.92
20. UNIT AVAILABILITY FACTOR	0.00	71.99	72.92
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.00	69.19	68.56
22. UNIT CAPACITY FACTOR (USING DER NET)	0.00	67.99	67.37
23. UNIT FORCED OUTAGE RATE	0.00	1.14	8.84
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	_____		
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	_____		
	October 15, 1983		

NOTE THAT THE THE YR.-TO-DATE AND  
 CUMULATIVE VALUES HAVE BEEN UPDATED.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328  
UNIT Sequoyah Two  
DATE 10-4-83  
COMPLETED BY David Dupree  
TELEPHONE (615)870-6543

MONTH September, 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</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 10-04-83  
 COMPLETED BY David Dupree  
 TELEPHONE (615)870-6543

REPORT MONTH SEPTEMBER

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
13	830719	S	720	C	4				Refueling Outage Continues.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

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

<sup>4</sup>  
 Exhibit G-Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

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

(9/77)



## Plant Maintenance Summary

The following significant maintenance items were completed during the month of September 1983:

### MECHANICAL MAINTENANCE

1. Installed a new element on 2BB centrifugal charging pump.
2. Performed SI-108 on the ice condenser doors, SI-106 ice weighing and SI-107 on the ice condenser floor drains to complete work in unit 2 ice condenser.
3. Repaired body weld on main steam power operated relief valve 2-PCV-1-12.
4. Repaired the CRDM dampers on unit 2.
5. Repaired 2-VLV-62-174 by repacking it with the factory representative present.
6. Aligned all four reactor coolant pumps on unit 2.
7. Replace the gaskets on 2-FE-63-170.

### Electrical Maintenance

1. Replace the motor bearings in the unit 2 reactor coolant pumps.
2. Replace the motor windings in the unit 2 #3 heater drain tank pump motors with high temperature windings.
3. Re-worked all of the unit 2 rod position indicator connectors and control rod drive connectors.

### Instrument Maintenance

#### Unit 1

1. Changed out 2 incore neutron monitoring detectors.
2. Added silicon oil to "top off" the fill system for containment sump level transmitter 1-LT-63-178.
3. Repaired 1 failed CRDM connector and 2 power supplies on the rod control system.
4. Stroked and performed maintenance on the main feedwater reg valves during the forced outage.
5. Supported Westinghouse Test Engineer in preparing to set up for the field acceptance test on T.S.C. Hardware.

## Plant Maintenance Summary

(Continued)

### Instrument Maintenance

#### Unit 1 (continued)

6. Performed monthly testing of the UHI accumulator level switches. All switches were within tolerance for the fourth consecutive month. The prototype static-o-ring switch which has only been installed for 1 month was also found to be within tolerance.

#### Unit 2

1. Completed scheduled calibrations and response time test for the refueling outage.
2. Installed the reranged steam flow transmitters and completed associated recalibrations.
3. Completed installation and checkout of the new area radiation monitors.
4. Completed installation and calibration of the reactor vessel vent system. Post modification testing will be performed during startup.
5. Replaced the bellow and added silicon oil to "top off" the fill system in containment sump level transmitter 2-LT-63-176. Added oil to "top off" 2-LT-63-178.
6. Replaced the amplifier, power supply and accumulator bladder on 2-PCV-3-122.

#### Condenser Vacuum Exhaust Flow Monitoring Units 1 and 2

Problems with the flow elements have become a significant concern. Condensation in the annubar seem to be the major problem. However the design range is a contributing factor. Backpressure caused by the HEPA filter essentially prohibits use of the bypass loop. We have submitted 2 LERs on unit 1 and 2 LERs on unit 2. We have had 2 PROs on unit 1 and 1 PRO on unit 2 during this month. We have initiated daily surveillance to blow down the lines and have installed heat trace to control condensation. These measures have helped but are not adequate. ENDES has been informed and are evaluating corrective action under ECN 5058 and DCR 1710.



## Plant Maintenance Summary

(Continued)

### Field Services Group

1. ECNs 2780/5200--Post-Accident Sampling Facility (Units 1 and 2)

Work continued on the installation of duct for the HVAC systems serving the PASF. Work continued in the accumulator room to route the seven sample tubes serving lower containment and one sample tube serving upper containment for unit 2. This tubing was routed through the unit 2 shield building wall penetrations this month. The steel containment vessel penetration modification to route sample tubing through the vessel was not done this outage. Installation of unit 2 containment conduit continued. The equipment pads have been set and are ready for equipment installation on El. 706 in the auxiliary building.

2. ECN 5429--Containment Hydrogen Mitigation System (Units 1 and 2)

All installation work is complete. Several breakers were replaced in the distribution panels when they failed during the post-modification testing. The system was retested and passed. The installation work is now field complete. Removal of the old unit 1 system and restoration of both units containment lights in the old systems electrical sockets remain to be done.

3. ENC 5009--ERCW Piping Changeout (Units 1 and 2)

The ERCW piping changeout was completed for piping serving the SIS pump 2B-B room cooler and the supply piping serving charging pump 2A-A room cooler and oil cooler.

4. ECN 5645--Steam Generator Blowdown (SGBD) (Units 1 and 2)

SGBD piping serving the unit 2 SGBD heat exchangers has now been tied into the cooling tower blowdown piping. Work to tie-in the SGBD piping from the condensate demineralizer to the main condenser "A" is complete. Work to make the unit 2 SGBD piping tie-ins upstream of the SGBD flashtank for the SGBD heat exchangers is complete. All outage mechanical work is now complete. Non-outage mechanical work is continuing. The electrical work has not started.

5. ECN 5596--Batch Neutralization System (Unit 0)

The system is in operation with temporary air to the solenoids. Some hanger work remains to be completed. The outstanding work continues.

6. ECN 5198--Technical Support Center (TSC) (Units 1 and 2)

The TSC computer systems have been energized and the site acceptance test is underway. Conduit installation was completed inside unit 2 containment during the outage. Work is complete for the TSC fire detection system. Various cable pulls are continuing in the control building.

## Plant Maintenance Summary

(Continued)

### Field Services (continued)

8. ECN 5642--Add N<sub>2</sub> Regulating Station To Supply N<sub>2</sub> To Deaeration Distribution System Inside Condensate Storage Tanks/and To Steam Generators (Units 1 and 2)

The installation of the nitrogen sparger and associated piping is complete in both condensate storage tanks and the final tie-in outside the tanks is completed.

9. ECN 2773,2775,2779,2923--Post Accident Radiation Monitoring (Unit 2)

Wiring inside the main control room panels 2-M-30 and 2-M-31 was completed. Field cable connectors have been installed and all cables have been terminated. Instrument calibration and post-modification testing are underway.

10. ECN 5449--6.9kV Shutdown Board Degraded Voltage Circuitry (Units 1 and 2)

The 6.9kV shutdown boards 1A-A and 2A-A were modified and post-modification testing was completed. Field work is now complete for this ECN.

11. ECN 5684--RCP Motor Oil Spray Shields (Units 1 and 2)

The unit 2 RCP motor oil spray shields were completed during the outage. All field work is now complete for this ECN.

12. ECN 5847--Plant Fire Dampers (Units 1 and 2)

Eighty-six of 89 plant fire dampers have been modified. Work also remains on this ECN to change out 15 plant fire dampers.

13. ECN 5647--Main Feedpump Turbine Condenser (MFPT) Condenser Air Removal Piping (Units 1 and 2)

This piping reroute is field complete for unit 2. Unit 1 work continues.

14. ECN 5608--Pressurizer Manway (Units 1 and 2)

Scarifying of the unit 2 pressurizer enclosure area and installation of the manway insert (sleeve) is complete. The manway cover will be installed and leak tested prior to mode 4.

15. ECN 5856--Pressurizer Loop Seal Drain (Units 1 and 2)

Installation of this piping and the new pipe hangers is field complete for unit 2. This piping is valved out of service until the pressurizer safety valve seats can be modified. Prefabrication of pipe and pipe supports is scheduled to begin for unit 1 in October.

## Plant Maintenance Summary

(Continued)

### Field Services (continued)

16. ECN 5773--Pressurizer Power Operated Relief Valve (PORV) and Piping Changeout (Units 1 and 2)

The unit 2 valves were received, installed, cables terminated, and functional tested early in the month; however they had to be reorientated in accordance with the vendor recommendations. Cable termination and functional testing continues. The unit 1 portion of this ECN remains to be done.

17. ECN 5743--Improved Access to Pressurizer and Steam Generators (Units 1 and 2)

Work is complete on the platform inside the top of the unit 2 pressurizer enclosure.

Installation of ladders, platforms, and a catwalk in the unit 2 lower containment to provide better access to the steam generators and the pressurizer is complete. Minor painting and QC signoffs remain for the job to be field complete for unit 2. Substantial work remains for unit 1.

18. ECN 2777--Reactor Pressure Vessel Head Vent (Unit 2)

All remaining lower compartment piping and pipe supports were installed this month; including the entire reactor cavity portion of the system. All remaining electrical work was completed this month except where indicated below. One valve was replaced when it failed during functional testing. The I/I converters have been installed. Cable and I/I converter nonconformances have been cleared. Diode nonconformances remain to be cleared. The post-modification valve leakage test data is being evaluated for acceptability. Final system valve leakrate testing will be performed when the unit reaches full operating temperature and pressure.

19. ECN 2776--Containment Pressure Monitoring (Unit 2)

Unit 2 work is field complete except for the main control room pressure indicators. Non 1-E pressure indicators have been temporarily installed in main control room panel 2-M-9. Delivery of 1-E pressure indicators is expected by the first of next year.

20. ECN 5769--Feedwater Chemical Feed Tie-in Relocation (Units 1 and 2)

The unit 2 work is field complete. The remaining existing tubing was removed and rerouted to the new tie-in locations on the auxiliary feedwater system this month. This completes the ECN field work.

## Plant Maintenance Summary

(Continued)

### Field Services (continued)

21. ECN 5370--Replacement of EGTS, ABGTS, and Ventilation Fan Motors (Unit 0)

EGTS, ABGTS, and pipe chase cooler fan motors have been changed out. The ABGTS fan housings were modified to accomodate the new motors. Vendor representatives modified two pipe chase cooler motors to correct improper rotation direction problems. Thermal overload protection device functional testing is underway.

22. ECN 5125--Fluid Dynamic Flow Element Replacement

During the unit 1 forced outage two "A" train flow elements, 1-FS-65-25 and 1-FS-65-31, were replaced. Replacement of several flow elements for various plant ventilation systems remains.

23. ECN 5595--EGTS Filter Housing Drain Reroute

During the unit 1 forced outage drains serving both the "A" and "B" train EGTS filter housings were rerouted in order to facilitate system operation. All required field work for this ECN is now complete.

24. ECN 5106--Reactor Pressure Vessel Level Indication System

Two 3" diameter holes were core drilled through the unit 1 shield building wall during the unit 1 forced outage. In addition, conduit and cables were installed in the penetrations prior to sealing them.

25. ECN 5713--Steam Generator Secondary Side Manway Port Access Platforms (Units 1 and 2)

Work was completed during the unit 2 refueling outage to install platforms for all four unit 2 steam generators, providing access to all secondary side manway ports.

TENNESSEE VALLEY AUTHORITY

Sequoyah Nuclear Plant  
P. O. Box 2000  
Soddy-Daisy, Tennessee 37379

OCT 15 1983

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Office of Management Information  
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Washington, DC 20555

Gentlemen:

Enclosed is the September 1983 Monthly Operating Report to the NRC for Sequoyah Nuclear Plant.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*C. C. Mason*  
C. C. Mason

Power Plant Superintendent

Enclosure

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