

TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR POWER
SEQUOYAH NUCLEAR PLANT

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

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

Submitted By:

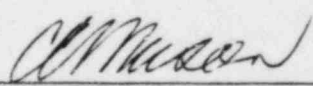

Power Plant Superintendent

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Operations Summary

December 1982

The following summary describes the significant operational activities for the month of December. 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.

Unit 2

Unit 2 was critical for 31.17 hours, produced 1,010 MWH (gross) resulting in an average hourly gross load of 265,789 kW during the month. There are 181.6 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 August 1, 1983. The capacity factor for the month was 0.12 percent.

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

Significant Operational Events

Unit 1

<u>Date</u>	<u>Time</u>	<u>Event</u>
12/01/82	0001	Reactor in mode 5. The refueling/modification outage continues.
12/31/82	2359	Reactor in mode 5. Preparation to enter mode 4 in progress.

Unit 2

12/01/82	0001	Reactor in mode 5 as the generator maintenance continues.
12/26/82	0500	Reactor entered mode 4.
12/27/82	1500	Reactor entered mode 3.
12/30/82	1650	Reactor taken critical.
	1950	Reactor entered mode 1.

Significant Operational Events

Unit 2

<u>Date</u>	<u>Time</u>	<u>Event</u>
12/31/82	0205	Rolled turbine.
	0243	Turbine tripped (unit not on line) due to the governor valves swinging.
	0400	Reactor entered mode 2.
	2012	The unit tied on line.
	2359	Reactor in mode 1 at 30% power producing 290 MWe and holding due to secondary chemistry.

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

Unit 1

<u>LER</u>	<u>SUBJECT</u>
SQRO-50-327/82135	The UHI accumulator tank level switches were found out of tolerance during calibration.
SQRO-50-327/82139	The containment air locks failed their local leak rate tests (SI-159.1).
SQRO-50-327/82140	The containment isolation valve/penetration combined leakage rate and combined bypass leakage exceeded the acceptable limits.

Unit 2

SQRO-50-328/82132	RHR 2A-A pump was inoperable due to the failure of the discharge flow switch to actuate causing the mini flow valve not to open.
SQRO-50-328/82133	Steam generator #4 level transmitter LT-3-110 failed high due to a faulty transistor.

Licensee Events and Special Reports

Unit 2

<u>LER</u>	<u>SUBJECT</u>
SQRO-50-328/82134	RWST level channel LT-63-52 was found out of tolerance during calibration.
SQRO-50-328/82136	Annulus inleakage was greater than allowable during the EGTS annulus draw down test (SI-264).
SQRO-50-328/82137	The UHI accumulator tank level switches were found out of tolerance during calibration.
SQRO-50-328/82138	The lower containment airlock failed the local leak rate test.
SQRO-50-328/82141	Both trains of the ESF auto actuation of the containment vent isolation failed due to slave relays K615 and K622 would not stay latched.

Special Reports

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

Offsite Dose Calculation Manual Changes

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

OPERATING DATA REPORT

DOCKET NO. 01-001
 DATE: 1/16/83
 TIME: 11:00 AM
 REPORT NO. 0100

OPERATING DATA

NOTE:

UNIT NAME: 01-001

REPORT PERIOD: 1/16/83

LICENSED: 01-001

01-001

01-001

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01-001

January 16, 1983

NOTE: THIS REPORT IS A SUMMARY OF THE DATA COLLECTED DURING THE REPORT PERIOD. IT IS NOT A COMPLETE RECORD OF ALL OPERATIONS.

*CORRECTED VALUES SINCE LAST REPORT.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327
UNIT One
DATE December 31, 1982
COMPLETED BY M. Eddings
TELEPHONE (615) 751-0421

MONTH December

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

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

*Unit Down - Refueling Outage

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-327
 UNIT NAME Sequoyah One
 DATE January 7, 1983
 COMPLETED BY M. Eddings
 TELEPHONE (615) 751-0421

REPORT MONTH December

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	744	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)

5
 Exhibit I-Same Source

(9/77)

OPERATING DATA REPORT

DOCUMENT NO. 50-000
DATE JANUARY 11, 1983
COMPLETED BY D. C. W. M.
TELEPHONE (615) 751-0447

OPERATING STATUS

1. UNIT NAME: SMOKEYHAW NUCLEAR PLANT, UNIT 2
2. REPORT PERIOD: DECEMBER 1982
3. LICENSED THERMAL POWER (MW): 3411.0
4. NAMEPLATE RATING (GROSS MW): 1220.6
5. DESIGN ELECTRICAL RATING (NET MWE): 1148.0
6. MAXIMUM DEFERRABLE CAPACITY (GROSS MWE): 1143.0
7. MAXIMUM DEFERRABLE CAPACITY (NET MWE): 1128.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBERS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASON(S)
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):
10. OTHER USE RESTRICTIONS, IF ANY:

	THIS MONTH	YR -TO-DATE	CUMULATIVE
HOURS IN REPORTING PERIOD	741.00	5139.14	5427.47
HOURS IN WHICH REACTOR WAS CRITICAL	51.20	3854.70	4566.70
HOURS IN WHICH SHUTDOWN	0.00	0.00	0.00
HOURS GENERATOR ON-LINE	3.80	3801.70	4604.70
HOURS GENERATOR SHUTDOWN	0.00	0.00	0.00
NET THERMAL ENERGY GENERATED (MMWH)	32104.80	121145.27	121091.20
NET ELECTRICAL ENERGY GEN. (MMWH)	1010.00	305180.11	305180.11
NET ELECTRICAL ENERGY GENERATED (MMWH)	0.00	0.00	0.00
UNIT SERVICE FACTOR	0.51	74.10	74.10
UNIT AVAILABILITY FACTOR	0.51	74.10	74.10
UNIT CAPACITY FACTOR (USING NET NET)	0.00	47.75	47.75
UNIT CAPACITY FACTOR (USING GROSS NET)	0.00	46.58	46.58
UNIT FORCED OUTAGE RATE	92.45	15.85	15.85
UNIT WAS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF SCHEDULE)			

11. SHUTDOWNS AT END OF REPORT PERIOD, ESTIMATED DATA OF STARTUP:

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328
 UNIT Two
 DATE January 6, 1983
 COMPLETED BY David Dupree
 TELEPHONE (615) 751-0343

MONTH December, 1982

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>39</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 January 6, 1983
 COMPLETED BY David Dupree
 TELEPHONE (615) 751-0343

REPORT MONTH December

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	48	H	1				Ice weighing outage. (Surveillance testing required by Technical Specifications). Found damage fan blades in the hydrogen cooling system.
20	82/12/03	F	692.2	B	4				

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.
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4
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 0161)

5
 Exhibit I-Same Source

(9/77)

Plant Maintenance Summary

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

Mechanical Maintenance

1. Repairs were made to the Units 1 and 2 BIT valves FCV-63-25, -26, -39, and -40 to stop leakage.

Electrical Maintenance

1. Diesel generator 2B-B repairs were completed following the transformer repairs.
2. The hydrogen ignitors were checked with an infrared thermometer.

Instrument Maintenance

None reportable this period.

Field Services Group

Unit 0

L-1676 0-31-12437	Installed a permanent jumper in panel 1A terminal #18D0 to panel 1A, terminal #18D1.
L-1677 0-244-8606	Put a switch in parallel with the Rusco Card Entry System printer to provide continuity when that printer is out of service for maintenance.
L-1681 0-244-12446	Installed the dimension phone system and made changes to the PAX system.
L-1708 0-301-12475	Changed the carrier detect relay from normally open to normally closed by removing the wire from relay socket pin 7 and reconnecting to pin 4. (Environmental Monitoring System)
L-1322 0-410-11982	Replaced the round door knob with a lever type on door C-37 (door to control building stairwell beside SE's office).
ECN L-5685 0-247-12197	Added an emergency light pack in each of the four relay rooms.

Field Services Group

Unit 1

L-1371
1-7-12072 Replaced the carbon steel high-pressure turbine interstage cylinder drains with type 304 stainless steel.

L-1826
1-31-12629 Installed special instrumentation to measure local pressures in HP and LP turbines.

ECN 5429 All remaining work including system functional testing was completed this month on the hydrogen mitigation system. The system is now operational.

ECN L-5786 Tack welded the upper head injection nozzles in two locations in RBI, elevation 734.

Unit 2

L-1694
2-65-12458 Changed the white wire termination on cable 2V6736 from R-76 TB 607 terminal 4 to R-76 TB 607 terminal.

FCR-653
2-68-11955 Installed the vessel nozzle covers (FCR-653 supercedes FCR OPP-364).

ECN 5429 (Hydrogen Mitigation System) All igniter junction boxes have been installed as well as all conduit in the dome. Work is expected to continue after Unit 2 is online.

Units 1 and 2

L-1635
3-27-12393 Fabricated and installed a T-bar across the water box outlet strainer section above the screens.

L-1600
3-301-12340 Relocated the paper tape reader and punch from the programmers console to the computer cabinet in the computer room, elevation 685.

ECN L-5643
3-30-12343 Installed a 3" isolation valve upstream of check valve 3-894 in auxiliary feedwater pump recirculation return to condensate storage tank A.

L-5672
3-245-12503 Cleared TACFs and updated drawings to show capacitor size option (100 pfd or .01 mfd) as a result of Preop Test NCS-32E, Ph. II deficiency PT-710.

L-5704
3-61-12317 Provided a 2" x 2" access opening in bottom of all accessible ice baskets to enable addition of ice from the bottom.

L-5777
3-63-12391 Inverted the upper sensor bellows for each cold leg accumulator level transmitters.