TENNESSEE VALLEY AUTHORITY DIVISION OF NUCLEAR POWER SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION MAY 1, 1984 - MAY 31, 1984

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

Submitted By: U.R. W

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## Operations Summary

### May, 1984

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

### Unit 1

Unit 1 was critical for 259.1 hours, produced 172,230 MWH (gross), resulting in an average hourly gross load of 677,058 kW during the month. There are 362.55 full power days estimated remaining until the end of cycle 3 fuel. With a capacity factor of 85 percent, the target EOC exposure would be reached July 31, 1985. The capacity factor for the month was 19.6 percent.

There were 2 reactor scrams, no manual shutdowns, and no power reductions.

### Unit 2

Unit 2 was critical for 728.6 hours, produced 799,390 MWH (gross), resulting in an average hourly gross load of 1,091,583 kW during the month. There are 80.42 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 September 3, 1984. The capacity factor for the month was 88.6 percent.

There was 1 reactor scram, no manual shutdowns, and one power reduction during May.

#### Significant Operational Events

#### Unit 1

| Date     | Time | Event   |
|----------|------|---|
| 05/01/84 | 0001 | The reactor was in mode 5. The forced outage due to the thimble guide tube leak was continuing. |
| 05/04/84 | 2040 | The reactor entered mode 4.   |
| 05/05/84 | 0526 | The reactor entered mode 3.   |
|          | 2329 | The reactor entered mode 4. Reduced pressure to repair the pressurizer relief valves.           |
| 05/06/84 | 0520 | The reactor entered mode 5.   |

# Significant Operational Events

# Unit 1

# (Continued)

| Date     | Time | Event                                |
|----------|------|--------------------------------------|
| 05/09/84 | 0010 | The reactor entered mode 4.          |
|          | 0541 | The reactor entered mode 3.          |
| 05/10/84 | 1453 | The reactor was taken critical.      |
|          | 1827 | The unit was tied on-line.           |
|          | 2200 | The reactor was at 30% power and     |
|          |      | holding due to steam generator       |
|          |      | chemistry.                           |
|          | 2322 | The reactor tripped due to a Lo-Lo   |
|          |      | steam generator level.               |
| 05/11/84 | 0850 | The reactor was taken critical.      |
|          | 1400 | The reactor tripped due to a Lo-Lo   |
|          |      | number 2 steam generator level.      |
|          | 1707 | The reactor was taken critical.      |
|          | 1903 | The unit was tied on-line.           |
|          | 2200 | The reactor was at 30% power,        |
|          |      | producing 299 MWe and was holding    |
|          |      | for steam generator chemistry.       |
| 05/12/84 | 0849 | Began load reduction for the turbine |
|          |      | overspeed trip test.                 |
|          | 1059 | Holding at 29% turbine load because  |
|          |      | the feedwater flow regulating valves |
|          |      | were oscillating. Began load         |
|          |      | ascension to 30%.                    |
|          | 2200 | Holding 30% reactor power for the    |
|          |      | turbine overspeed trip test.         |
| 05/13/84 | 1032 | Began load decrease for the turbine  |
|          |      | overspeed trip test.                 |
|          | 1232 | The turbine was taken off-line for   |
|          |      | the trip test.                       |
|          | 1345 | Tied the unit back on-line.          |
|          | 1400 | The reactor was at 30% power and     |
|          |      | holding for steam generator          |
|          |      | chemistry.                           |
| 05/14/84 | 2255 | Began power ascension.               |
| 05/15/84 | 1120 | The reactor was at 54% power and     |
|          |      | holding due to problems with the     |
|          |      | E.H.C. panel.                        |
|          | 1340 | Began power ascension.               |
|          | 2040 | The reactor was at 75% power and     |
|          |      | was holding for incore/excore        |
|          |      | probe calibration.                   |
|          |      |                                      |

# Significant Operational Events

# Unit 1

# (Continued)

| Date     | Time | Event   |
|----------|------|---|
| 05/18/84 | 1735 | Began power ascension.  |
|          | 2205 | The reactor was at 90% power and was holding to verify the reactor coolant system flow calculations.        |
| 05/21/84 | 1640 | Began power ascension.  |
|          | 1942 | The reactor obtained 100% power.  |
|          | 2234 | The reactor tripped due to generator electrical trouble.  |
| 05/31/84 | 1153 | The reactor entered mode 2.   |
|          | 1210 | The reactor was taken critical.   |
|          | 1650 | Tied the generator on-line.   |
|          | 1830 | The reactor obtained 30% power, producing 276 MWe.  |
|          | 2359 | The reactor was in mode 1 at 30% power, producing 276 MWe and was holding due to steam generator chemistry. |

# Unit 2

| Date     | Time | Event   |
|----------|------|---|
| 05/01/84 | 0001 | The reactor was in mode 1 at 100% power, producing 1164 MWe.  |
| 05/18/84 | 2217 | Began reducing reactor power to add oil to reactor coolant pump #3.   |
| 05/19/84 | 0730 | The reactor was at 30% power, producing 285 MWe.  |
|          | 1157 | The reactor tripped on a Lo-Lo steam generator level after MFPT A tripped when the BOP operator isolated the oil pump isolation valve. MFPT B was already off-line. |
| 05/20/84 | 0328 | The reactor was taken critical.   |
|          | 1757 | Tied the unit on-line.  |
|          | 1835 | The reactor was in mode 1 at 30% power, producing 333 MWe and holding due to steam generator chemistry.   |

# Significant Operational Events

#### Unit 2

### (Continued)

| Date     | Time | Event  |
|----------|------|--|
| 05/22/84 | 1648 | Began power ascension.   |
|          | 1826 | The reactor was at 38% power, producing 405 MWe and was holding for maintenance on LCV-6-106A. |
|          | 1948 | Began power ascension.   |
| 05/23/84 | 0500 | The reactor was holding at 98% power for tests results confirming actual reactor power level.  |
|          | 1238 | Began power ascension.   |
|          | 1400 | The reactor obtained 100% power, producing 1160 MWe.   |
| 05/31/84 | 2359 | The reactor was in mode 1 at 100% reactor power, producing 1160 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 May 1984, to the Nuclear Regulatory Commission.

| ESCRIPTION | OF         | EVENT         |
|------------|------------|---------------|
|            | ESCRIPTION | ESCRIPTION OF |

1-84023 This event was discovered at 1309C on April 2, 1984, while unit 1 was in mode 5 and unit 2 was in mode 1.

While performing surveillance instruction (SI) 92, "Remote Shutdown Monitoring Instrumentation - Pressurizer Pressure Channel Calibrations," the alarm indicating lights on the bistables of the power-operated relief valves (PORV) appeared to be reversed for the correct bistable action. The wiring and operation of the bistables and controller module was investigated and thought to be incorrect. The wiring on the PORVs for both units was modified to this new position. Later, the wiring and bistable operation was reviewed and more thoroughly investigated with additional information and drawings. This additional investigation showed that the PORVs had been modified to an inoperable (reverse from normal) state.

### Licensee Events and Special Reports

(Continued)

LER

#### DESCRIPTION OF EVENT

1-84023

(Continued)

The PORVs were immediately blocked on the operating unit while both PORVs on both units were rewired and tested to be in the correct wiring configuration and operating correctly. The surveillance instruction has been revised to explain PORV operation and to give details of bistable action. The administrative instruction (AI-25) has been revised to better control wiring changes.

1-84024

This event was discovered at 1330C on April 13, 1984, while unit 1 was in mode 3. Unit 1 entered mode 3 at 0950C on April 12, 1984.

A limiting condition for operation (LCO) in the technical specifications was not met and a change from mode 4 (less than 350 degrees F) to mode 3 (greater than 350 degrees F) was made. A level transmitter (LT) for steam generator number one was inoperable. The associated bistables for the level transmitter were already tripped due to another LCO. Personnel failed to realize that more than one LCO applied to this LT. The LCO that was recognized allowed operation until the next required functional test in the applicable mode. Another LCO was overlooked, and it did not permit a mode change.

1-84025

At 1500C on April 15, 1984, sampling of the reactor coolant system (RCS) for boron concentration was initiated. This sampling caused pressurizer level transmitter 1-LT-68-320 to become inoperable due to a modification during the previous outage which routed the sense line from the low side tap of the instrument. This event was detected at 1715C after a change from mode 3 to mode 2 was completed. Two LCOs are involved with this event. LCO 3.3.1.1 is applicable in mode 2, and LCO 3.0.4 is not applicable. After mode 2 was reached, the bistable was tripped at 1748C with the instrument discovered inoperable at 1715C. LCO 3.3.3.7 is for accident monitoring instrumentation and allows seven days to return the instrument operable, but 3.0.4 is applicable (i.e., no mode change with instrument inoperable). LCO 3.3.3.7 is applicable for modes 1, 2, and 3 and the instrument should have been made operable prior to mode change. The cause of this event has been attributed to the failure of the operator to realize LT-68-320 as inoperable.

1-84026

At 2148 on April 17, 1984, unit 1 experienced a reactor trip. Unit 1 was in mode 1 at 30% reactor power just prior to the event. A turbine trip occurred due to failure of a generator stator cooling water pump. Subsequent Lo-Lo level in steam generator number three resulted in a reactor trip from approximately 18% reactor power. Unit 1 stabilized at 547 degrees F following the reactor trip.

# Licensee Events and Special Reports

(Continued)

LER

#### DESCRIPTION OF EVENT

1-84027

This LER involves three separate incidents. The first containment ventilation isolation (CVI) occurred at 1642C on April 20, 1984 while unit 1 was in mode 5. The second CVI occurred at 1055C on April 25, 1984 and the third CVI occurred at 1116C on April 25, 1984 while unit 1 was in mode 5.

A high radiation alarm was actuated which caused a containment ventilation isolation (CVI) to occur. Investigation revealed that a voltage spike occurred as a result of electromagnetic interference (EMI) which was generated by slippage of the filter paper in two incidents and stray signals in another incident. Radiation levels were not above normal during this time.

The inadvertent high radiation alarm was set and the monitor was returned to service. A time is y is being added to the actuation signal to allow time for spikes to decay.

1-84028

The ABI occurred at 2358C on April 17, 1984, while unit 1 was in mode 3.

A high radiation alarm was actuated which caused an auxiliary building isolation (ABI) to occur. Investigation revealed that personnel were placing boric acid evaporator 'B' in service and draining the vent header at the same time that the volume control tank was being burped (vented). This simultaneous action increased the vent header pressure and caused excessive gas to be vented causing the auxiliary building ventilation system to isolate.

1-84029

This LER involves three separate incidents. The first auxiliary building isolation (ABI) occurred at 1205C on May 7, 1984, while unit 1 was in mode 5 and unit 2 was in mode 1. The second ABI occurred at 2341C on May 7, 1984, while unit 1 was in mode 5 and unit 2 was in mode 1. The third ABI occurred at 0828C on May 8, 1984, while unit 1 was in mode 5 and unit 2 was in mode 1.

A high radiation alarm was actuated which caused an auxiliary building isolation (ABI) to occur. Investigation revealed that in two incidents, because detector output is not stable and the radiation level is so close to the setpoint, normal fluctuations of the detector tripped the alarm. In another incident, the power source for a radiatin monitor was transferred from one board to another which caused an alarm. Radiation levels were not above normal during this time.

# Licensee Events and Special Reports

(Continued)

LER

### DESCRIPTION OF EVENT

1-84030

On April 19, 1984, unit 1 was in mode 1 (2235 psig, 558 degrees F) at 30% reactor power with maintenance personnel cleaning the incore detector thimble tubes. A high pressure connection on the thimble tube at the seal table failed resulting in a reactor coolant system pressure boundary leak of approximately 25-35 gpm and ejection of one incore detector thimble tube at 2100 CST.

# Diesel Generator Failure Reports

There were no diesel generator failure reports transmitted during the month.

### Special Reports

There were no special reports transmitted during the month.

## Offsite Dose Calculation Manual Changes

There were not any changes to the Sequoyah Nuclear Plant ODCM during the month.

#### OPERATING DATA REPORT

DOCKET NO. 50-327 DATE JUNE 11,1984 COMPLETED BY M. G. EDDINGS TELEPHONE (615) 870-6196

### OPERATING STATUS

| REPORT PERIOD: MAY 1984 LICENSED THERMAL POWER(MWT): 3411.0 NAMEPLATE RATING (GROSS MWE): 1220.6 DESIGN ELECTRICAL RATING (NET MWE): MAXIMUM DEPENDABLE CAPACITY (GROSS MWE MAXIMUM DEPENDABLE CAPACITY (NET MWE): IF CHANGES OCCUR IN CAPACITY RATINGS(I 3 THROUGH 7)SINCE LAST REPORT, GIVE RE | 1148.0<br>1183.0<br>1148.0<br>TEMS NUMBERS             |   |  |
|--|--|---|--|
| POWER LEVEL TO WHICH RESTRICTED, IF ANY  | (NET MWE):   | Color and the site part                                 |  |
| REASONS FOR RESTRICTIONS, IF ANY:  |  |   |  |
|  | THIS MONTH   |   | CUMULATIVE   |
| HOURS IN REPORTING PERIOD  | 744.00   | 3647.00   | 25584.00   |
| NUMBER OF MOURE PEACTOR MAC COTTICAL   | MED 10   | 100000  | 4 KE (2) (5-2) A /                                       |
| REACTOR RESERVE SHUTDOWN HOURS   | 0.00   | 0.00  | 0.00   |
|  | 200 4 40   | 1254.50   | 15367.65   |
| HOURS GENERATOR ON-LINE  | 204.40   |   |  |
| UNIT RESERVE SHUTDOWN HOURS  | 0.00   | 0.00  | 0.00   |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH)   | 0.00<br>565213.61                                      | 0.00  | 0.00   |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GEN. (MWH)  | 2 2 20 20 20 20 20 20 20 20 20 20 20 20                | A STATE OF STATE OF STATE                               | annarous en  |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GENERATED (MWH) NET ELECTRICAL ENERGY GENERATED (MWH)   | 160030.00  | 1082181.00  | 15859109.00  |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GENERATED (MWH) NET ELECTRICAL ENERGY GENERATED (MWH)   | 160030.00  | 1082181.00  | 15859109.00  |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GENERATED (MWH) NET ELECTRICAL ENERGY GENERATED (MWH)   | 160030.00  | 1082181.00  | 15859109.00  |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GEN. (MWH) NET ELECTRICAL ENERGY GENERATED (MWH) UNIT SERVICE FACTOR UNIT AVAILABILITY FACTOR UNIT CAPACITY FACTOR (USING MDC NET)  | 160030.00<br>34.19<br>34.19<br>18.74                   | 1082181.00<br>34.40<br>34.40<br>25.85                   | 15859109.00<br>60.07<br>60.07<br>54.00                   |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GEN. (MWH) NET ELECTRICAL ENERGY GENERATED (MWH) UNIT SERVICE FACTOR UNIT AVAILABILITY FACTOR UNIT CAPACITY FACTOR(USING MDC NET) UNIT CAPACITY FACTOR(USING DER NET)                                   | 160030.00<br>34.19<br>34.19<br>18.74<br>18.74          | 1082181.00<br>34.40<br>34.40<br>25.85<br>25.85          | 15859109.00<br>60.07<br>60.07<br>54.00<br>54.00          |
| UNIT RESERVE SHUTDOWN HOURS GROSS THERMAL ENERGY GENERATED (MWH) GROSS ELECTRICAL ENERGY GEN. (MWH) NET ELECTRICAL ENERGY GENERATED (MWH) UNIT SERVICE FACTOR UNIT AVAILABILITY FACTOR UNIT CAPACITY FACTOR (USING MDC NET)  | 160030.00<br>34.19<br>34.19<br>18.74<br>18.74<br>65.75 | 1082181.00<br>34.40<br>34.40<br>25.85<br>25.85<br>45.11 | 15859109.00<br>60.07<br>60.07<br>54.00<br>54.00<br>21.14 |

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

### UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-327 UNIT NAME Sequoyah One DATE June 4, 1984 COMPLETED BY M. G. Eddings TELEPHONE (615) 870-6249

REPORT MONTH MAY

|     | No. | Date   | Type1 - | Duration<br>(Hours) | Reason <sup>2</sup> | Method Of<br>Shutting<br>Down Reactor <sup>3</sup> | Licensee<br>Event<br>Report # | System<br>Code <sup>4</sup> | Code 5 | Cause & Corrective Action to Prevent Recurrence |
|-----|-----|--------|---------|---------------------|---------------------|--|-------------------------------|-----------------------------|--------|---|
|     | 7   | 840419 | F       | 234.5               | A                   | 4  |                               |                             |        | Thimble guide tube leak at seal table.          |
|     | 8   | 840510 | F       | 19.7                | A                   | 3  |                               |                             |        | Loop #2 Lo-Lo generator level.                  |
| -9- | 9   | 840521 | S       | 1.2                 | В                   | 9  |                               |                             |        | Turbine overspeed trip test.                    |
|     | 10  | 840521 | F       | 234.2               | A                   | 3  |                               |                             |        | Generator electrical trouble, first out.        |
|     |     |        |         |                     |                     |  |                               |                             |        |   |

F: Forced

S: Scheduled

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)

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)

# AVERAGE DAILY UNIT POWER LEVEL

| DOCKET NO.   | 50-327         |
|--------------|----------------|
| UNIT         | Sequoyah One   |
| DATE         | June 4, 1984   |
| COMPLETED BY | M. Eddings     |
| TELEPHONE    | (615) 870-6248 |

| MONTH | MAY, 1984                           |     |                                     |
|-------|-------------------------------------|-----|-------------------------------------|
| DAY   | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
| 1     | N/A                                 | 17  | 834.2                               |
| 2     | N/A                                 | 18  | 858.2                               |
| 3     | N/A                                 | 19  | 997.2                               |
| 4     | N/A                                 | 20  | 1002.5                              |
| 5     | N/A                                 | 21  | 997.5                               |
| 6     | N/A                                 | 22  | N/A .*                              |
| 7     | N/A                                 | 23  | N/A                                 |
| 8     | N/A                                 | 24  | N/A                                 |
| 9     | N/A                                 | 25  | N/A                                 |
| 10    | 239.5                               | 26  | N/A                                 |
| 11    | 244.1                               | 27  | N/A                                 |
| 12    | 263.3                               | 28  | N/A                                 |
| 13    | 221.3                               | 29  | N/A                                 |
| 14    | 249.0                               | 30  | N/A                                 |
| 15    | 533.2                               | 31  | 63.3                                |
| 16    | 801.5                               |     |                                     |

## 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)

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#### OPERATING DATA REPORT

DOCKET NO. 50-328

DATE JUNE 11,1984

COMPLETED BY D.C. DUPREE
TELEPHONE (615)870-6248

#### OPERATING STATUS

| 2.<br>3.<br>4.<br>5.<br>6.<br>7. | NAMEPLATE RATING (GROSS MWE): 1220.6 DESIGN ELECTRICAL RATING (NET MWE): 1148.0 MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1183.0 MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1148.0 |   |                  |             |  |  |  |
|----------------------------------|---|---|------------------|-------------|--|--|--|
| 9.                               | POWER LEVEL TO WHICH RESTRICTED, IF ANY   |   |                  |             |  |  |  |
| 10.                              | REASONS FOR RESTRICTIONS, IF ANY:   |   |                  |             |  |  |  |
|                                  |   | THIS MONTH  | YRTO-DATE        | CUMULATIVE  |  |  |  |
| 11.                              | HOURS IN REPORTING PERIOD<br>NUMBER OF HOURS REACTOR WAS CRITICAL   | 744.00  | 3647.00          | 17544.00    |  |  |  |
| 12.                              | NUMBER OF HOURS REACTOR WAS CRITICAL  | 728.60<br>0.00<br>714.00<br>0.00<br>2287795.06<br>779390.00 | 3571.40          | 13932.47    |  |  |  |
|                                  | REACTOR RESERVE SHUTDOWN HOURS  | 0.00  | 0.00             | 0.00        |  |  |  |
| 14.                              | HOURS GENERATOR ON-LINE   | 714.00  | 3552.60          | 13706.92    |  |  |  |
| 15.                              | UNIT RESERVE SHUTDOWN HOURS   | 0.00  | 0.00             | 0.00        |  |  |  |
| 16.                              | GROSS THERMAL ENERGY GENERATED (MWH)  | 2287795.06  | 11885954.99      | 44304022.80 |  |  |  |
| 17.                              | GROSS ELECTRICAL ENERGY GEN. (MWH)  | 779390.00   | 4100910.00       | 15132850.00 |  |  |  |
| 18.                              | NET ELECTRICAL ENERGY GENERATED (MWH)   |   | 3951797.00       | 14569534.60 |  |  |  |
|                                  | UNIT SERVICE FACTOR   | 95.97   | 97.41            |             |  |  |  |
| 20.                              | UNIT AVAILABILITY FACTOR  | 95.97   | 97.41            |             |  |  |  |
| 21.                              | UNIT CAPACITY FACTOR(USING MDC NET)   | 87.62   | 94.39            | 72.34       |  |  |  |
| 22.                              | UNIT JAPACITY FACTOR (USING DER NET)  | 87.62   | 94.39<br>2.59    | 72.34       |  |  |  |
|                                  | UNIT FORCED OUTAGE RATE   | 4.03  | Z.59             | 7.62        |  |  |  |
| 24.                              | Refueling/Modification - Cycle 2 Fuel - Septe   | mber 3, 1984, a   | approximately 51 | 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.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-328

UNIT NAME Sequoyah Two
DATE June 11, 1984

COMPLETED BY D. C. Dupree
TELEPHONE (615) 870-6248

REPORT MONTH MAY

| No. | Date   | Type1 | Duration<br>(Hours) | Reason <sup>2</sup> | Method Of<br>Shutting<br>Down Reactor <sup>3</sup> | Licensee<br>Event<br>Report # | System<br>Code <sup>4</sup> | Code 5 | Cause & Corrective Action to Prevent Recurrence                               |
|-----|--------|-------|---------------------|---------------------|--|-------------------------------|-----------------------------|--------|---|
| 2   | 840518 | F     | 0                   | В                   | 5  |                               |                             |        | Drop load to add oil to #3 R.C.P.   |
| 3   | 840519 | F     | 30.0                | G                   | 3  |                               |                             |        | U. O. tripped oil pump on "A" M.F.P.T. while "B" M.F.P.T. was out of service. |
|     |        |       |                     |                     |  |                               |                             |        |   |

1

F: Forced

S: Scheduled

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

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)

# AVERAGE DAILY UNIT POWER LEVEL

| DOCKET NO.   | 50-328         |
|--------------|----------------|
| UNIT         | Sequoyah Two   |
| DATE         | June 11, 1984  |
| COMPLETED BY | D. C. Dupree   |
| TELEPHONE    | (615) 870-6248 |

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY  | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|-------------------------------------|------|-------------------------------------|
| 1   | 1136.0                              | 17 . | 1121.8                              |
| 2   | 1131.0                              | 18   | 1122.0                              |
| 3   | 1130.0                              | 19   | 269.0                               |
| 4   | 1129.0                              | 20   | 68.0                                |
| 5   | 1129.0                              | 21   | 295.0                               |
| 6   | 1126.0                              | 22   | 360.0                               |
| 7   | 1125.0                              | 23   | 1085.0                              |
| 8   | 1126.0                              | 24   | 1131.0                              |
| 9   | 1126.0                              | 25   | 1131.0                              |
| 10  | 1125.0                              | 26   | 1131.0                              |
| 11  | 1122.0                              | 27   | 1130.0                              |
| 12  | 1119.0                              | 28   | 1133.0                              |
| 13  | 1120.0                              | 29   | 1131.0                              |
| 14  | 1119.1                              | 30   | 1132.0                              |
| 15  | 1119.0                              | 31   | 1131.0                              |
| 16  | 1118.0                              |      |                                     |

## 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)

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The following significant maintenance items were completed during the month of May 1984:

### Mechanical Maintenance

- Completed work on the D-12 thimble failure in the unit #1 incore instrument room seal table.
- Replaced the bad oil seal, gear reducer, and motor seals on the unit #1 MFPT "1B" turning gear.
- 3. Repaired the solenoid valves on 1-FCV-63-41 and -42.
- 4. "1C" cooling tower lift pump was reported to have no bearing lube water flow. We blew out the bearing lube water lines to establish good flow and the instrument section repaired a flowmeter.
- Rebuilt the "2A-A" boric acid transfer pump, replacing the bearing, shaft, and seals.
- Installed drain papers in the unit #2 lower ice condenser after the lower inlet doors were blown open and remained open for 2 to 3 hours.
- 7. Made repairs to the unit #1 main generator. Sent the rotor and bearing (#11) to Muscle Shoals to be remachined. Shipped the permanent magnet generator (PMG) to Westinghouse to replace the magnets and have it magnetized. After reinstalling the rotor, #11 bearing, and the coupling, bolt #17 in the coupling galled. Repulled the rotor and stator and replaced the galled bolt.
- Replaced a broken Masoneilan Camflex operator on 1-FCV-3-329A with a spare operator borrowed from unit #2.
- Installed Jimmy plates over door latches on eight doors in the control and auxiliary buildings per NRC requirements.
- Repaired relief valve 1-VLV-67-582D which was broken at the nipple on the upper containment cooler "D".
- 11. Rebuilt the "2B-B" high pressure fire protection pump replacing the coupling and shaft which were found to be broken.
- 12. Furmanited Non-CSSC valves on systems #1, 3, and 6 (both units) and manways #19 and 23 on the MSR piping on unit #2. Furmanited CSSC valves 2-VLV-3-361A and 2-VLV-1-150.
- Performed section XI maintenance on 1-FCV-1-182 by replacing the Bonnet gasket.

| DATE. | COMPONENT           | FAILURE DESCRIPTION   | Plant Maintenance Summary Electrical Maintenance CAUSE OF FAILURE.   | CORRECTIVE ACTION 1 of  | 4<br>PRO# |
|-------|---------------------|---|--|---|-----------|
| 04-18 | 1-MTRB-082-1A/      | CHECK LUSE OIL CIRCULATING PUMP CONTROL TRANSFORMER PRIMARY LEADS FOR GOOD CLEARANCE          | PREVENTATIVE MAINTENANCE   | INSPECTED PRIMARY LEADS<br>AND HAS GOOD CLEARANCE                                 | NONE      |
| 05-03 | 1-FSV-001-0022      | REMOVE GROUND ON VITAL<br>BATTERY BOARD 1 A48 AND<br>B48                                      | ROOF LEAKED AND WATER DRIPGED THTO JUNCTION BOX  | CLEANED WATER OUT OF<br>JUNCTION BOX 2042   | NONE      |
| 05-05 | 1-R00-085-SC2N<br>5 | TEMPORARY CABLE WAS USED<br>UNTIL ORIGINAL CABLE<br>COULD BE REPAIRED AND<br>REINSTALLED      | NS CABLE CONNECTOR WAS<br>FULL OF BORATED WATER<br>CAUSING CABLE TO GROUND<br>AND HAVE RESISTANCE IN<br>COIL | REPLACED CRDM N5 CABLE IN<br>PLACE OF TEMPORARY CARLE                             | NONE      |
| 05-06 | 0-TCV-67-019/       | VALVE WILL NOT OPEN ALL<br>THE WAY  | DIRTY  | CLEANED VALVE   | HONE      |
| 05-06 | 1-FSV-313-0223      | REMOVE GROUND ON VITAL<br>BATTERY BOARD 1 FUSE D3   | WATER INTRUSION  | CLEANED TERMINAL STRIP<br>AND REPLACED DIODE<br>CLEANED LIMIT SWITCH AND<br>VALVE | NONE      |
| 05-08 | 1-XFD-31C-0904      | BLOWN FUSE LINK   | ACTIVATED PYROTRONICS PANEL  | REPLACED LINKS  | NONE      |
| 05-08 | 1-XFD-313-0905      | REPLACE FUSABLE LINKS   | ACTIVATED BY PYROTRONICS PANEL   | REPLACED FUSABLE LINKS  | NONE      |
| 05-09 | 2-MTRB-082-2A/<br>3 | CHECK LUBE OIL<br>CIRCULATING PUMP CONTROL<br>TRANSFORMER PRIMARY LEADS<br>FOR GOOD CLEARANCE | PREVENTATIVE MAINTENANCE   | INSPECTED PRIMARY LEADS . HAD GOOD CLEARANCE.                                     | NONE      |
| 05-09 | 2-MTRB-082-2A/<br>2 | CHECK LUBE OIL<br>CIRCULATING PUMP CONTROL<br>TRANSFORMER PRIMARY LEADS<br>FOR GOOD CLEARANCE | PREVENTATIVE MAINTENANCE   | INSPECTED PRIMARY LEADS. HAS GOOD CLEARANCE                                       | NONE      |
| 05-09 | 1-MTRB-082-1A/<br>3 | CHECK LUBE OIL<br>CIRCULATING PUMP CONTROL<br>TRANSFORMER PRIMARY LEADS<br>FOR GOOD CLEARANCE | PREVENTATIVE MAINTENANCE   | INSPECTED PRIMARY LEADS<br>AND FOUND GOOD CLEARANCE                               | HONE      |

|                     |  | Plant Maintenance Summary  |   |  |
|---------------------|--|--|---|--|
| COMPONENT           | FAILURE DESCRIPTION  | Electrical Maintenance CAUSE OF FAILURE  | CORRECTIVE ACTION   | pRO#   |
| 2-HTCK-234-223<br>p | CHECK MAIN DRAIN LINE<br>TEMPERTURE CONTROLLER AND<br>FUSES ON CIRCUIT<br>223 P.R.   | FAULTY TEMPERTURE<br>CONTROLLER  | REPLACED TEMPERTURE<br>CONTROLLER   | NONE   |
| 0-BAT8-250-QVJ      | OXIDATION ON BATTERIES   | PREVENTIVE MAINTANCE   | CLEANED OXIDATION FROM BATTERIES  | NONE   |
| 1-MTRB-082-18/<br>2 | CHECK LUBE OIL<br>CIRCULATING PUMP CONTROL<br>TRANSFORMER PRIMARY LEADS<br>FOR GOOD CLEARANCE  | PREVENTATIVE MAINTENANCE   | INSPECTED PRIMARY LEADS,<br>HAD GOOD CLEARANCE  | NONE   |
| 2-MTR8-082-028<br>3 | CHECK LUBE OIL<br>CIRCULATING PUMP CONTROL<br>TRAMSFORMER PRIMARY LEADS<br>FOR GOOD CLEARANCE  | PREVENTATIVE MAINTENANCE   | INSPECTED CONTROL<br>TRANSFORMER PRIMARY<br>LEADS, HAD GOOD CLEARANCE   | HONE   |
| 0-8ATB-250-09X<br>T | CLEAN OXIDATION ON<br>BATTERIES 12,19,3,9 AND<br>56  | PREVENTATIVE MAINTENANCE   | CLEANED BATTERIES   | NONE   |
| 0-8AT8-250-09W<br>T | CLEAN OXIDATION OFF<br>BATTERIES 2,10 AND 42   | PREVENTATIVE MAINTEANCE  | CLEANED BATTERIES   | HONE   |
| 0-BATB-250-0QY      | CLEAN OXIDATION OFF<br>BATTERIES<br>3, 4, 8, 16, 31, 41, 45 AND 58   | PREVENTATIVE MAINTENANCE   | CLEANED BATTERIES   | NONE   |
| 1-MVOP-001-18-<br>8 | ISOLATION VALUE STEAM<br>FLOW TO AUX. FWP NOT<br>WORKING PROPERLY  | TORQUE SWITCH OUT OF ADJUSTMENT  | ADJUSTED TORQUE SWITCH PER NI 11.2 OPERATIONS STROKED VALVE DEMSTRATED OPERABILITY OF VALVE RETURNED TO SERVICE | 1-84-187   |
| 1-FCV-062-0085      | CHARGING FLOW RCS CONTROL POSITION SWITCH LIMIT LIGHTS WERE NOT SHOWING ACTUAL VALVE POSITION  | ACTUATOR ARM WAS LOOSE ON<br>SHAFT PREVENTING LIMITS<br>FROM MAKING UP   | ADJUSTED ACTUATOR ARM AND<br>CHECKED FOR PROPER<br>OPERATION  | NONE   |
| 0-LS-032-90-8       | AUX AIR COMPRESSOR 8-8<br>LOW OIL LEVEL SWITCH   | DURING MAINTANCE OF OTHER<br>EQUIPMENT THIS SWITCH WAS   | REPLACED OIL LEVEL SWITCH   | SHOW   |
|                     | 2-HTCK-234-223 P  0-BATB-250-0VJ  1-MTRB-082-18/2  2-MTRB-082-028 3  0-BATB-250-09X T  0-BATB-250-09V T  1-MV0P-001-18-8  1-FCV-062-0085 | 2-HTCK-234-223 CHECK MAIN DRAIN LINE TEMPERTURE CONTROLLER AND FUSES ON CIRCUIT 223 P.R.  0-BATB-250-QVJ OXIDATION ON BATTERIES  1-HTRB-082-18/ CHECK LUBE OIL CIRCULATING PUMP CONTROL TRANSFORMER PRIMARY LEADS FOR GOOD CLEARANCE  2-HTRB-082-028 CHECK LUBE OIL CIRCULATING PUMP CONTROL TRANSFORMER PRIMARY LEADS FOR GOOD CLEARANCE  0-BATB-250-09X CLEAN OXIDATION ON BATTERIES 12,19,3,9 AND 56  0-BATB-250-09W CLEAN OXIDATION OFF BATTERIES 2,10 AND 42  0-BATB-250-09Y CLEAN OXIDATION OFF BATTERIES 3,4,8,16,31,41,45 AND 58  1-HVOP-001-18- ISOLATION VALVE STEAM FLOW TO AUX. FUP NOT WORKING PROPERLY  1-FCV-062-0085 CHARGING FLOW RCS CONTROL POSITION SWITCH LIMIT LIGHTS WERE NOT SHOWING ACTUAL VALVE POSITION  0-LS-032-90-8 AUX AIR COMPRESSOR B-B | COMPONENT FAILURE DESCRIPTION Electrical Maintenance CAUSE OF FAILURE   | COMPONENT  FAILURE DESCRIPTION  CAMSE OF FAILURE  CORRECTIVE ACTION  CAMSE OF FAILURE  CORRECTIVE ACTION  CORRECTIVE ACTION |

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| Page 3 of 4 PRO#  |                         | NONE  | NON  | NONE   | NONE   | 1-84-185   | NONE   | NONE   | NONE                       |
|---|-------------------------|---|--|--|--|--|--|--|----------------------------|
| CORRECTIVE ACTION   |                         | ADJUSTED ACTUATOR ARM   | ADJUSTED MICRO-SUITCH ARM  | STRAIGHTENED STEM ON<br>ACTUATOR ARM   | ADJUSTED LIMITS AND CHECKED FOR PROPER OPERATION   | ADJUSTED VALVE STEM AND CHECKED FOR PROPER OPERATION   | REPLACED MOTOR CHECKED<br>ALIENMENT RETURNED TO<br>SERVICE | REMOUND AND REINSTALLED  | REPLACED MOTOR AND WIND    |
| Plant Maintenance Summary Electrical Maintenance CAUSE OF FAILURE | BROKEN                  | ACTUATOR ARM LOGSE ON SHAFT PREVENTING SUITCH FROM MAKING CONTACT   | SET SCREW ON MICRO-SWITCH ARM WAS LOOSE PREVENTING SWITCH FROM MAKING CONTACT  | ACTUATOR ARM STEM WAS BENT PREVENTING LIMIT SWITCHES FROM MAKING UP                            | POSSIBLY ACTUATOR ARM WAS LOOSE ON SHAFT PREVENTING LIMITS FROM MAKING UP                                      | VALVE SIEM WAS LOOSE<br>CAUSING LIMIT SWITCH<br>ACTUATOR ARM TO TURN AWAY<br>FROM LIMII SWITCH     | LOWER RIGHT BEARING BAD CAUSING MOTOR TO GO BAD            | WINDING IN MOTOR SHORTED OUT CAUSING DEAD GROUNDIN C-PHASE                             | · BEARING WORN OUT CAUSING |
| FAILURE DESCRIPTION   | BROKEN DURING MAINTANCE | STEAM GENERATOR #2 MAIN<br>STEAM HEADER ISOL. VLV.<br>POSITION SUITCH INDICATOR<br>LIGHT WOULD NOT COME ON<br>WHILE IN #2 TEST POSITION | STEAM GENERATOR #1 MAIN STEAM HEADER ISOLATION VALUE INDICATOR LIGHT WOULD NOT COME ON WHILE TEST POSITION WAS DEPRESSED | STEAM GENERATOR #1 BLOWDOWN HEADER FLOW POSITION INDICATOR ARM WOULD NOT STRIKE LIMIT SWITCHES | STEAM GENERATOR #3 AUXILARY FEED WATER LEVEL CONTROL VALVE LIMIT LIGHTS WERE NOT SHOWING ACTUAL VALVE POSITION | STEAM GENERATOR #3 BLOWDOWN FLOW CONTROL VALVE LIMIT LIGHTS WERE NOT SHOWING ACTUAL VALVE POSITION | PREFERED INVERTER #1 EXY, LAST FAH WILL NOT RUN            | ANNULUS VACUUM CONTROL<br>FAN 1-8 HAD GROUND ON<br>COMPONET 5D-181-8 C&A<br>VENT 80ARD | 1200 AC UITAL INVERTER     |
| COPPONENT   |                         | 1-FCV-601-11-T  | 1-FCV-001-0004   | 1-FCV-001-0007   | 1-LCV-003-0148   | 1-FCV-001-0025   | 1-INVA-250-CRB   | 1-MTRB-065-74  | 1-INUB-250-03L             |
| DATE.   |                         | 05-23   | 65-23  | 05-23  | -17-   | 05-23  | 05-23  | 05-23  | 05-23                      |

| Page 4 of 4   |  | NON .   | NONE  | NOVE  | 1-84-200  |
|---|--|---|---|---|---|
| CORRECTIVE ACTION.  | SWITCH CHECKED ALIGNEMBNT RETURNED TO SERVICE  | PUT BLOCK BACK IN PROPER POSITION CHECKED STEM ON OPERATOR FOR LOOSENESS RETURNED TO SERVICE  | REINSTALLED SNAP RING<br>CHECKED FUNCTION OF<br>SWITCH AND RETURNED TO<br>SERVICE           | REARRANGED WIRES IN LIMIT<br>SWITCH SPLICED CABLE AND<br>CLEARED GROUND RETURNED<br>TO SERVICE    | REPLACED FUSES FUZ FUZA<br>FU13 FU14 CHECKED POWER<br>SOURCE OK |
| Plant Maintenance Summary Electrical Maintenance CAUSE OF FAILURE | MOTOR TO BIND BURNING UP                       | BLOCK ON OPERATOR SIEN THAT MAKES LIMITS TURNED ENOUGH THAT NEITHER LIMIT WAS BEING MADE PROBABLE CAUSE VIRBRATION  | SNAP RIFE ON THUMB SUITCH HAD PEPPED OFF HAYOLE PROBABLE CAUSE OF NOT BEING PUT ON PROPERLY | WIRES HOLDING LIMIT<br>SWITCH CONTACTS OPEN ALSO<br>GROUNDED CABLE                                | SURGE OF POWER OUE TO   |
| FAILURE DESCRIPTION   | 1-I FAN #1 MOTOR WAS<br>STALLED WOULD NOT TURN | STEAM GENERATOR #3 BLOWDOWN ISOL. VLV. INSIDE CONTAINMENT WOULD NOT SHOW PROPER VALVE POSITION BOTH RED AND GREEN LIGHTS WOULD SHOW WHEN VALVE WAS IN EITHER POSITION | STEAN GENERATOR #3 VALVE SWITCH FAILED TO OPERATE   | ON THE 125V BATTERY BOARD #II PANEL WAS SHOWING GROUND ONGLYCOL INLET ISOLATION VALVE 1-FCV-61-97 | BLOWN FUSES   |
| COPPONENT   |  | 1-FCV-001-183A  | 1- <del>16</del> -003-1484  | 1-FSV-061-0097  | 1-INVB-250-64E  |
| DATE.   |  |   | 62-59   | <b>18-</b>  | 05-31   |

32 records listed.

(Continued)

### Instrument Maintenance

- 1. During monthly testing of UHI level switches, we found all switches to be within Technical Specification Tolerance and only two switches on unit 1 out of the desired tolerance of ±2" H<sub>2</sub>0. We have now prepared a DCR to replace these switches due to the unreliability that has been experienced.
- 2. The No. 3 Heater Drain Tank Level Control Valves 1 and 2, LCV-6-106A & B, were set for split range operation instead of the parallel operation they had previously been set to. This improved the stability of the No. 3 Heater Drain Tank flow and therefore helped to improve the feedwater flow and steam generator level control.

#### UNIT 1

- Completed the NIS power range calibrations required as a result of startup testing for the new core.
- Completed all required initial calibrations for the reactor vessel level indication system. Returned to service on May 29, 1984.
- 3. During the month there were two (2) failures of the containment sump level transmitters as follows:
  - a. 1-LT-63-179 failed on May 10, reading greater than 6 percent deviation during performance of SI-2. Mechanics found the output to be approximately 6 percent high over full range. Transmitter was recalibrated and returned to service. No "top off" was performed. (MR #A282500, PRO #1-84-188) (Curtis Lagasse)
  - b. 1-LT-63-179 failed on May 21, reading low approximately 2 percent. Mechanics found the output of the transmitter to be approximately 0.7 mA low over entire range. Transmitter was recalibrated by exercising the "span" and "zero" adjustments and returned to service. Possible oxide buildup on the "zero" and "span" pots. No "top off" was performed. (MR #A283141, PRO #1-84-198) (R. G. Lewis).
- 4. During the month there were four (4) ABI's attributed to spurious signals. One (1) on the RM-90-101 monitor during a transfer of voltage on the same power supply and the other three (3) from the high background levels of the spent fuel pit. There was one combination ABI and CVI on unit 1 during the loss of a vital inverter when the reactor tripped.

Additional modifications are being requested by CATEGORY D FCR 2406 to operate with a upper-level discrimator set below the max preamplifier pulse height.

(Continued)

### Instrument Maintenance

### UNIT 2

- Rod position indicator H-6 was erratic and indicating a high resistance in the connector. Repair was achieved by applying voltage to the field cable and connector.
- Replaced the MOOG Servo valve on the turbine throttle valve No. 3 and verified correct stroke.
- Completed the modification to the square root converters on safety related flow loops to install a voltage regulation circuit.
- 4. The Terry Turbine tripped on turbine overspeed during a SI performance. A problem was found with SC-46-57 and FIC-46-57. Replaced the dropping resistor and returned the turbine to service.

|        |     |       |     |          | COMP     |                     | 06-06-84   |                |                                |   |
|--------|-----|-------|-----|----------|----------|---------------------|--|----------------|--------------------------------|---|
| MR.COM | PU  | FUNC  | SYS | ADDRESS. | DATE     | DESCRIP             | TION   | •••••          | ••••••                         | CORRECTIVE ACTION   |
| A09755 | 3   | 2 FI  | 003 | 498      | 05/25/84 | 2-FI-00             | 3-488, INDICATI                                  | ING IMPROPERLY | Y.                             | UPON IN ESTIGATION THE FLOW TRANSMITTER WAS FOUND OUT OF CALIBRATION DUE TO NATURAL DRIFT. THE INDICATOR WAS RECALIBRATED AND RETURNED TO SERVICE.                              |
| A11094 | 2   | 1 FCV | 003 | 48       | 05/25/84 |                     | 03-48, VALVE D<br>D AND WILL NO                  |                | ND PROPERLY AT                 | PACKING TOO TIGHT ON VALUE STEM. ADJUSTED PACKING CLEANED PILOT VALUE ON POSITIONER REPLACED AIR SUPPLY REGULATOR, & RESTORED VALUE.  |
| A23332 | 7   | l FT  | 063 | 91A      | 06/01/84 |                     | 3-91A,1-FT-63-<br>UGS AND TUBING                 |                | TUBE FITTINGS,<br>TO ELIMINATE | UPON INVESTIGATION THE TUBING FITTINGS WERE FOUND LOOSE DUE TO CYCLIC FATIGUE. THE FITTINGS WERE TIGHTENED AND TRANSMITTER WAS LEFT IN SERVICE.                                 |
| A23809 | 1   | 1 PCV | 001 | 5        | 05/03/84 | IN AUTO             | 01-5, VITH HS 1<br>THE POSITION<br>GREEN CON THE | INDICATING I   |                                | THE GASKET ON THE POSITIONER WAS FOUND BAD DUE TO CYCLIC FATIGUE CAUSING THE AIR LEAK. REPLACED THE GASKET, ADJUSTED THE CURRENT TO PRESSURE CONVERTER AND RETURNED TO SERVICE. |
| A23824 | 2 ( | 0 02R | 043 | 5000     | 05/07/84 |                     | BE JOME KIND O                                   |                | G ( 0%, THERE<br>IMMESTIGATE   | INDICATOR LAMPS BAD & DUT OF ADJUSTMENT. READJUSTED & REPLACED LAMPS.   |
| A24563 | 1   | 1 PCV | 001 | 12       | 05/04/84 |                     | 01-12,VALVE PO<br>KET ON REG. WH                 |                |                                | THE GASKET ON THE POSITIONER WAS FOUND TO BE BAD DUE TO CYCLIC FATIGUE.  REPLACED THE GASKET AND RETURNED TO SERVICE.   |
| A24706 | 1   | I LEV | 003 | 171      | 05/10/84 | SETPOIN             | T, CONTINUES T<br>REASES PAST SE                 | TO FEED S/G A  | FTER LEVEL IN                  | THE SET POINT DIAL WAS OUT OF CALIBRATION DUE TO DRIFT. RECALIBRATED THE SET POINT DIAL, VERIFIED PROPER OPERATION AND RETURNED TO SERVICE.                                     |
| A24761 | 4   | 2 FT  | 003 | 48A      | 05/17/84 | 2-FT-00:<br>F-3-48A |  | CHANNEL CALI   | BRATION ON THE                 |   |
| A24761 | 5   | 2 FT  | 003 | 90A      | 05/17/84 | 2-FT-000<br>F-3-90  |  | CHANNEL CALI   | BRATION ON THE                 | A PROBLEM WAS REPORTED WITH THIS LOOP. A COMPLETE LOOP CHECK WAS MADE AND NO PROBLEM WAS FOUND.   |
| A24761 | 6   | 2     | 003 | 488      | 05/18/84 |                     | 488, PERFORM CA<br>ER FLOW LOOP.                 | NLIBRATION OF  | THE U2 F-3-488                 | UPON INVESTIGATION THE FLOW TRANSMITTER WAS FOUND OUT OF CALIBRATION DUE TO NATURAL DRIFT. THE TRANSMITTER WAS RECALIBRATED AND RETURNED TO SERVICE.                            |

INSTRUMENT MAINTENANCE MONTHLY SUMMARY OA-OA-RA

Instrument Maintenance

|    | I       | NST | RUMENT | MA  | INTENANCE. | MONTHLY S | SUMMARY 06-06-84 PAGE 2   | rage 2 or 3  |
|----|---------|-----|--------|-----|------------|-----------|---|--|
|    | MR.COMP | U   | FUNC   | SYS | ADDRESS.   |           | DESCRIPTION   | CORRECTIVE ACTION  |
|    | A247622 | 2   | FI     | 003 | 48A        | 05/24/84  | 2-FI-003-48A, INDICATOR READING HIGHER THAN "8" CHANNEL VERIFY CAL.   | INDICATOR OUT OF CALIBRATION. RECALIBRATED FI-3-48A.   |
|    | A281530 | 2   | FI     | 003 | 358        | 05/20/84  | 2-F1-003-358, INDICATOR READS LOW PER CHANNEL CHECK TRIP ASSOCIATED BISTABLES PER INSTRUCTION (TI-67), INVESTIGATE AND REPAIR AS REQUIRED AND RETURN TO NORMAL. |  |
|    | A281543 | 2   | PT     | 003 | 1          | 05/30/84  | 2-PT-003-1, PT FAILED HIGH CAUSING FEED PUMP TO<br>BACK DOWN IN AUTO - INVESTIGATE & REPAIR   | WATER HAD CONDENSED INTO JUNCTION BOX AT TRANSMITTER FROM A STEAM LEAK OVERHEAD. DRIED OUT JUNCTION BOX, REPLACED TEST BLOCK, & RECALIBRATED TRANSMITTER.                        |
|    | A281544 | 2   | PI     | 001 | 33         | 05/30/84  | 2-PI-001-33, INDICATOR READING HIGH   | TRANSMITTER OUT OF CAL. RECAL TRANSMITTER  |
|    | A281646 | 1   | FI     | 003 | 163        | 05/31/84  | 1-FI-003-163, FI SHOWS 40 CPM WITH A AFN PUMP OFF   |  |
| 7- | A281647 | 1   | FI     | 003 | 155        |           | 1-FI-003-155, FLOW INDICATOR SHOWS 90 GPM WITH A AFW PUMP OFF   | THE FLOW TRANSMITTER WAS FOUND OUT OF CALIBRATION DUE TO SETPOINT DRIFT. RECALIBRATED THE TRANSMITTER, BACK  |
| 1  | 3       |     |        |     |            |           |   | FILLED THE SENSE LINES AND RETURNED TO SERVICE.  |
|    | A281752 | 2 1 | 15     | 880 | 331        | 05/16/84  | 1-TS-068-331, RECALIBRATE TO ITS NORMAL SETPOINT OF 140 DEGREES F. THE SETPOINT WAS CHANGED PER TACF 1-84-062-68, MR A281755 WILL CLEAR TACF.                   |  |
|    | A281753 | 1   | TS     | 880 | 330        | 05/16/84  | 1-TS-068-330, RECALIBRATE TO I)S NORMAL SETPOINT OF 140 DEGREES F. THE SETPOINT WAS CHANGED PER TACF 1-84-062-68. MR A281755 WILL CLEAR TACF.                   | THE SWITCH WAS OUT OF CALIBRATION TO 210F WHICH WAS BRINGING IN THE ALARM IN THE CONTROL ROOM DUE TO CALIBRATION DRIFT. RECALIBRATED THE SWITCH TO 140F AND RETURNED TO SERVICE. |
|    | A281754 | 1 1 | TS     | 880 | 329        | 05/16/84  | 1-TS-068-329, RECALIBRATE TO II NORMAL SETPOINT OF 140 DEGREES F. THE SETPOINT WAS CHANGED PER TACF 1-84-062-68. MR A281755 WILL CLEAR TACF.                    | THE SWITCH WAS OUT OF CALIBRATION TO 210F WHICH WAS BRINGING IN THE ALARM IN THE CONTROL ROOM DUE TO CALIBRATION DRIFT. RECALIBRATED THE SWITCH TO 140F AND RETURNED TO SERVICE. |
|    | A281755 | 1   | TS     | 880 | 328        | 05/16/84  | 1-TS-068-328, RECALIBRATE TO IIS NORMAL SETPOINT OF 140 DEGREES F. CLEAR TACF 1-84-062-68 WHEN MR'S A281755, A281752, A281753, AND A281754 ARE COMPLETED.       | THE SWITCH WAS DUT OF CALIBRATION TO 210F WHICH WAS BRINGING THE ALARM IN THE  |
|    | A282045 | 5 1 | FM     | 003 | 488        | 05/31/84  | 1-FM-003-488, LOOP 2 FW FLOW CONVERTER, LOW<br>SIGNAL CUTOFF CIRCUIT IS STICKING. *NPRD*  | IT WAS FOUND THAT THE COIL AND REED SWITCHES WERE BAD CAUSING THE FAILURE.   |
|    |         |     |        |     |            |           |   |  |

Instrument Maintenance
INSTRUMENT MAINTENANCE MONTHLY SUMMARY 06-06-84 PAGE 3
COMP

| MR. COMP U FUNC | SYS ADDRESS. | DATE DESCRIPTION  | . CORRECTIVE ACTION  |
|-----------------|--------------|---|--|
|                 |              |   | THE REED SWITCHES AND COIL WERE REPLACED, PROPER OPERATION WAS VERIFIED , RECALIBRATED AND THE MODIFIER WAS RETURNED TO SERVICE.   |
| A282092 2 TS    | 062 245      | 05/04/84 2-TS-062-245, CALIBRATE TEMP. SWITCH HIGH<br>SETPOINT IS 175 DEGREES, INDICATION IS 177<br>DEGREES. **NPRD** | IT WAS FOUND THAT THE SETPOINTS ON THE SWITCH WERE OUT OF TOLERANCE DUE TO NATURAL DRIFT. THE TEMPERATURE SWITCH WAS RECALIBRATED AND RETURNED TO SERVICE.                       |
| A282323 1 LR    | 003 430002   | 05/18/84 1-LR-003-43P002, GREEN PEN IS FAILED HI, REPAIR AS REQUIRED.   | THE VALVE WHICH PERMITTED FLOW TO THE HIGH SIDE OF TRANSMITTER WAS FOUND CLOSED CAUSING THE FAILURE. OPENED THE VALVE, VERIFIED OPERATIONS AND RETURNED TO SERVICE.              |
| A283101 1 TI    | 068 319      | 05/14/84 1-TI-068-319, RCS PREZ HAS HIGH ALARM ON TI-68-319 FOR LIQUID TEMPERATURE INDICATOR.                         | ON INVESTIGATION ON THE TEMPERATURE MODIFIER HAD DRIFTED HIGH DUE TO NATURAL DRIFT. RECALIBRATED THE MODIFIER AND RETURNED TO SERVICE.   |
| A283141 1 LI    | 063 179      | 05/23/84 1-LI-063-179, LEVEL INDICATOR FAILED LOW, REPAIR   | THE TRANSMITTER WAS OUT OF CALIBRATION DUE TO NATURAL DRIFT WHICH CAUSED THE LEVEL INDICATOR TO FAIL LOV. THE LEVEL TRANSMITTER WAS RECALIBRATED AND RETURNED TO SERVICE.        |
| A285343 1 LT    | 068 339      | 05/07/84 1-LT-068-339, VERIFY CALIBRATION OF 1-LT-68-339 PER IMI-99, CC 5.4B. RECALIBRATE AMO/OR REPAIR IF NECESSARY. | THE LEVEL TRANSMITTER WAS FOUND OUT OF CALIBRATION DIE TO NATURAL DRIFT. THE LEVEL TRANSMITTER WAS RECALIBRATED AND RETURNED TO SERVICE.   |
| A286504 1 PCV   | 001 5        | 05/03/84 1-PCV-001-5, AIR IS BLOWING FROM GASKET AREA OF<br>THE AIR REGULATOR FOR THIS PORV. *NPRD*                   | THE GASKET ON THE POSISTIONER WAS FOUND BAD DUE TO CYCLIC FATIGUE CAUSING THE OIL LEAK. REPLACED THE GASKET, ADJUSTED THE CURRENT TO PRESSURE CONVERTER AND RETURNED TO SERVICE. |
| A286641 0 RM    | 090 118      | 05/04/84 0-RM-090-118, RAD MONITOR APPEARS TO HAVE A SHORT. FAILS TO FUNCTION.  | BAD POWER SUPPLY IN RP-30 MODULE. REPAIRED POWER SUPPLY.   |
| A292031 1 FCV   | 003 48       | 05/25/84 1-FCV-003-48, CHECK S/G LEVELS FCR LOOPS 1, 3, 8 4. *NPRD*   | LOCAL POSITION AND SHOULD HAVE BEEN IN REMOTE CAUSING THE READINGS TO BE INCORRECT. PLACED SWITCH IN REMOTE POSITION AND RETURNED TO SERVICE                                     |
| A292035 0 RM    | 090 225      | 05/25/84 0-RM-090-225, THE MODULE IS READING HIGHER THAN THE RECORDER.  | CLEANED CONTACTS ON RECORDER.  |

Instrument Maintenance

Page 4 of 5

INSTRUMENT MAINTENANCE MONTHLY SUMMARY PAGE 4

A292048 1 FIS 001 55 05/29/84 1-FIS-001-55, FIS I'AS FAILED HIGH

BELLOWS IN FIS PUNCTURED. REPLACED BELLOWS & RECALIBRATED.

31 records listed.

Instrument Maintenance

INSTRUMENT MAINTENANCE MONTHLY SUMMARY COMP

| MR2     | U | FUNC | SYS | ADDRESS. | DATE     | DESCRIPTION                           | CORRECTIVE | ACTION                 |
|---------|---|------|-----|----------|----------|---------------------------------------|------------|------------------------|
| A242335 | 2 | FT   | 003 | 48A      | 05/09/84 | 2-TT-003-48A, PERFORM CALIBRATION AND | THE CAUSE  | AS FROM NATURAL CALIBR |

VERIFY OUTPUT WITH ROSEMOUNT TEST TRANSMITTER. A283059 2 LCV 003 . 164 05/11/84 2-LCV-003-164, CANNOT GET FULL CLOSURE

INDICATION ON LCV-3-164 WHEN SETPOINT IS MILLI VOLT TO CURRENT CIRCUIT BOARD DECREASED TO ZERO. REPORTED THAT AIR IS CAUSING IT NOT TO GO TO ITS FULL BLOWING & VLV. REF. S1276

AUSE WAS FROM NATURAL CALIBRATION DRIFT. THE TRANSMITTER WAS RECALIBRATED AND RETURNED TO SERVICE.

THE CONTROLLER WAS FOUND WITH A BAD OUTPUT. THE CIRCUIT BOARD WAS REPAIRED, VERIFIED CALIBRATION ON THE CONTROLLER AND RETURNED TO SERVICE.

164A 05/11/84 2-LCV-003-164A, CANNOT GET FULL CLOSURE THE MILLIVOLT TO CURRENT CIRCUIT BOARD INDICATION ON LCV-164A WHEN SETPOINT

WAS FOUND BAD CAUSING THE CONTROLLER DECREASED TO ZERO. REPORTED THAT AIR IS NOT TO GIVE IT'S FULL OUTPUT VALUE. BLOWING & VLV. REF. SI276 INVESTIGATE & REPAIRED THE CIRCUIT BOARD, VERIFIED CORRECT TO SERVICE

CALIBRATION AND RETURNED TO SERVICE.

3 records listed.

A283060 2 LCV 003

(Continued)

### Field Services Group

# 1. ECN 2768--Reactor Pressure Vessel Level Indication System (RVLIS) (Unit 2)

The mechanical workplan investigation and preparation began and the electrical preparation is continuing. The procurement of all electrical materials is underway.

### 2. ECN 2780--Post Accident Sampling Facility (Unit 2)

All the mechanical materials have been received and the electrical equipment procurement process is continuing. The conduit work outside containment is underway while the workplan preparation is continuing. The following mechanical work is complete: HVAC system piping, hangers, tubing panels, and core drilling. The fire protection workplan is in the review cycle.

# 3. ECN 5198--Technical Support Center (TSC) (Unit 2)

The modification of the status monitoring system (SMS) cabinets continued for the interface equipment. The control building conduit installation on elevation 685 continued. Both the SMS and elevation 685 continued. Both the SMS and elevation 685 conduit work should be completed by mid June. the conduit in the annulus and the auxiliary instrument room is complete. The cable pulling workplan preparation is near completion.

# 4. ECN--6055 Wide Range Pressure Transmitter to the RVLIS Panel

The mechanical workplan investigation and preparation is in progress. The conduit installation is continuing in the auxiliary building.

### 5. ECN--5194 Iodine Monitoring Building

The electrical workplan for unit 2 conduit is in the approval cycle. The termination of the unit 1 sample room air conditioning cable was completed. The mechanical workplan has been approved.

### 6. Nu Reg 0588 Items

The unit 2 vent motor replacement has begun for non outage work (ECN-5370). No work has started on the solenoid valve replacement (ECN-5457). The workplan for the revision on the level switches was completed and the cable pull is in progress (ECN-5765). The workplan to replace the system 3 pressure switches was written and turned in for PORC review (ECN-5823). The investigation and preparation of the electrical workplan for valve operator replacement is in progress, units 1 & 2 (ECN-5824). The workplan writing is in progress for the limit switch replacement (ECN-5881), the flow switch replacement (ECN-5883) and is complete for the temperature switch replacement on system 12 and 30 (ECN-5882).

(Continued)

### Field Services Group

(Continued)

## 6. Nu Reg 0588 Items (Continued)

The flow transmitter replacement materials are on order from ENDES for a delivery of July 9, 1984 and the workplan preparation is in progress (ECN-5884). The relays for the revision of system 43 limit switches have arrived for unit 1 & 2 (ECN-5898). System 3 and 7 motors are on order for valve operators (ECN-5970). The miscellaneous instrument replacement workplan preparation is complete and is in the review cycle (ECN-5995). Also, the mechanical and electrical workplan preparations are in progress for the hydrogen monitor modification (ECN-6032).

### TENNESSEE VALLEY AUTHORITY

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

June 15, 1984

Nuclear Regulatory Commission Office of Management Information and Program Control Washington, DC 20555

Gentlemen:

Enclosed is the May 1984 Monthly Operating Report to the NRC for Sequoyah Nuclear Plant.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

P.R. Willa

P. R. Wallace Plant Manager

Enclosure cc (Enclosure):

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