TENNESSEE VALLEY AUTHORITY

DIVISION OF NUCLEAR POWER

SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

March 1, 1985 - March 31, 1985

UNIT 1

DOCKET NUMBER 50-327

LICENSE NUMBER DPR-77

UNIT 2

DOCKET NUMBER 50-328

LICENSE NUMBER DPR-79

Submitted by: P.R. Wallace

P. R. Wallace, Plant Manager

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PDR ADOCK 05000327
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(1)

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## Operations Summary

### March 1985

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

### Unit 1

Unit 1 was critical for 744.0 hours, produced 878,860 MWH (gross), resulting in an average hourly gross load of 1,181,263 kW during the month. There are 86.3 full power days estimated remaining until the end of cycle 3 fuel. The capacity factor for the month was 99.9 percent. The cycle 3 refueling outage is scheduled to start on September 6, 1985.

During the month, the unit experienced no reactor scrams, manual shutdowns, or power reductions.

### Unit 2

Unit 2 was critical for 744.0 hours, produced 872,320 MWH (gross), resulting in an average hourly gross load of 1,172,473 kW during the month. There are 281.4 full power days estimated remaining until the end of cycle 3 fuel. The capacity factor for the month was 99.1 percent. With a capacity factor of 85 percent, the target EOC exposure would be reached February 26, 1986.

During the month, the unit experienced no reactor scrams, manual shutdowns or power reductions.

## Significant Operational Events

### Unit 1

| Date | Time | Event |
|---|---|---|
| 03/01/85 | 0001 | The reactor was in mode 1 at 100% power producing 1190 MWE. |
| 03/31/85 | 2359 | The reactor was in mode 1 at 100% power producing 1180 MWE. The unit has been in continous operation since September 28, 1984 (184 days).<br><br>The units 878,860 MWE (gross) and 99.9% capacity factor is a record for the unit. |

### Unit 2

| Date | Time | Event |
|---|---|---|
| 03/01/85 | 0001 | The reactor was in mode 1 at 100% power producing 1190 MWE. |
| 03/31/85 | 2359 | The reactor was in mode 1 at 100% power producing 1180 MWE. The unit has been in continous operation since February 17, 1985 (42 days). |

## Significant Operational Events

(Continued)

## Spent Fuel Pit Storage Capabilities

Sequoyah has the capabilities to store 1,386 spent fuel assemblies. Two-hundred-seventy-six assemblies are presently stored in the SFP with the capacity to store an additional 1,110 assemblies.

## PORVs and Safety Valves Summary

No PORVs nor safety valves were challenged during the month.

## Licensee Events and Special Reports

The following licensee event reports (LER) were sent during March 1985 to the Nuclear Regulatory Commission.

| LER | DESCRIPTION OF EVENT |
|---|---|
| 1-85011 | On seven separate occasions, an hourly fire watch was not performed within one hour. All events occurred while both units were in mode 1 at 100% power. |

The events were:

| Time (CST) | Date | Location/Cause |
|---|---|---|
| 2200 | February 6, 1985 | ERCW Pumping Station. Keycard control for door PS-4 would not function. |
| 0400 | February 8, 1985 | ERCW Pumping Station. Keycard control for door PS-6 was frozen. |
| 0215 | February 12, 1985 | ERCW Pumping station. Door PS-5 was frozen shut. |
| 1016 | February 12, 1985 | ERCW pumping station. A new power block security gate blew shut and locked. |
| 1200 | February 13, 1985 | ERCW pumping station. Door PS-5 was jammed and could not be opened. |
| 0832 | February 15, 1985 | Auxiliary Building. Door A183 would not open due to a bad relay and cardreader. |
| 1427 | February 28, 1985 | TSC. The access door to the TSC will be a keycard door under powerblock. After power supply switching, the computer was reprogrammed but control of this door was not defeated as required. |

2-85004 At 1511C on February 15, 1985 with unit 2 in mode 1 at 100% power, power was lost to protection set I instrumentation. This caused a reduction in feedwater flow to all steam generators and loops one and three feedwater regulator valves to fail closed. The reactor tripped on a lo-lo steam generator level in loop one. The event was primarily caused by personnel error in that the ASE failed to clearly understand the procedure for removing an inverter from service before proceeding.

At 0243C on February 17, 1985, a second reactor trip occurred due to lo-lo level in steam generator two. While reducing power because of an EHC fluid leak, the main feed pump tripped because of low seal injection pressure due to condensate feedwater flow fluctuations.

2-85005 With unit 2 in mode 1 at 100% power at 0118C on February 12, 1985, during a routine inspection of containment, loose equipment and miscellaneous debris was found in the upper compartment.

## Special Reports

There were no special reports transmitted during the month.

## Diesel Generator Failure Report

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

## Offsite Dose Calculation Manual Changes

No changes were made to the Sequoyah Offsite Dose Calculation Manual during the month.

OPERATING DATA REPORT

DOCKET NO. 50-327
DATE APRIL 4 1985
COMPLETED BY M. G. EDDINGS
TELEPHONE (615) 870-6421

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 1 NOTES:
2. REPORT PERIOD: MARCH 1985
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 | 744.00 | 2160.00 | 32881.00 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 744.00 | 2160.00 | 22807.66 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 14. HOURS GENERATOR ON-LINE | 744.00 | 2160.00 | 22268.95 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2534247.48 | 7326950.80 | 72004636.75 |
| 17. GROSS ELECTRICAL ENERGY GEN. (MWH) | 878860.00 | 2532480.00 | 24268896.00 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 846576.00 | 2440988.00 | 23322618.00 |
| 19. UNIT SERVICE FACTOR | 100.00 | 100.00 | 67.73 |
| 20. UNIT AVAILABILITY FACTOR | 100.00 | 100.00 | 67.73 |
| 21. UNIT CAPACITY FACTOR(USING MDC NET) | 99.12 | 98.44 | 61.79 |
| 22. UNIT CAPACITY FACTOR(USING DER NET) | 99.12 | 98.44 | 61.79 |
| 23. UNIT FORCED OUTAGE RATE | 0.00 | 0.00 | 16.86 |

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Ice Weighing - April 26, 1985 - 20 days
Cycle 3 Refueling/Modification - September 6, 1985 - 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.

# OPERATING DATA REPORT

DOCKET NO. 50-328
DATE APRIL 5 1985
COMPLETED BY D.C.DUPREE
TELEPHONE (615)870-6248

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 2 NOTES:
2. REPORT PERIOD: MARCH 1985
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 | 744.00 | 2160.00 | 24841.00 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 744.00 | 2117.70 | 18812.82 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 14. HOURS GENERATOR ON-LINE | 744.00 | 2085.92 | 18356.10 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2532200.88 | 6603664.47 | 58602675.34 |
| 17. GROSS ELECTRICAL ENERGY GEN. (MWH) | 872320.00 | 2274420.00 | 19966100.00 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 842202.00 | 2189911.00 | 19210919.60 |
| 19. UNIT SERVICE FACTOR | 100.00 | 96.57 | 73.89 |
| 20. UNIT AVAILABILITY FACTOR | 100.00 | 96.57 | 73.89 |
| 21. UNIT CAPACITY FACTOR(USING MDC NET) | 98.61 | 88.31 | 67.37 |
| 22. UNIT CAPACITY FACTOR(USING DER NET) | 98.61 | 88.31 | 67.37 |
| 23. UNIT FORCED OUTAGE RATE | 0.00 | 3.15 | 8.00 |

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:

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-327
UNIT NAME One
DATE March 1985
COMPLETED BY M. G. Eddings
TELEPHONE (615) 870-6421

REPORT MONTH March 1985

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | None | | | |

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)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-328
UNIT NAME Sequoyah Two
DATE April 5, 1985
COMPLETED BY D. C. Dupree
TELEPHONE (615) 870-6248

REPORT MONTH MARCH 1985

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | None | | | |

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)

ATTACHMENT 1
AVERAGE DAILY UNIT POWER LEVEL

FILE PACKAGE NO. 55
REPORT REQUIREMENTS

| | |
|---|---|
| DOCKET NO. | 50-327 |
| UNIT | One |
| DATE | April 1, 1985 |
| COMPLETED BY | M. G. Eddings |
| TELEPHONE | (615) 870-6421 |

MONTH MARCH

| Day | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|---|---|---|---|
| 1 | 1151 | 17 | 1147 |
| 2 | 1151 | 18 | 1143 |
| 3 | 1150 | 19 | 1145 |
| 4 | 1152 | 20 | 1145 |
| 5 | 1148 | 21 | 1142 |
| 6 | 1150 | 22 | 1142 |
| 7 | 1150 | 23 | 1140 |
| 8 | 1150 | 24 | 1138 |
| 9 | 1150 | 25 | 1138 |
| 10 | 1148 | 26 | 1140 |
| 11 | 1148 | 27 | 1140 |
| 12 | 1148 | 28 | 1140 |
| 13 | 1147 | 29 | 1137 |
| 14 | 1146 | 30 | 1136 |
| 15 | 1145 | 31 | 1142 |
| 16 | 1144 | | |

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.

ATTACHMENT 1
AVERAGE DAILY UNIT POWER LEVEL

FILE PACKAGE NO. 55
REPORT REQUIREMENTS

DOCKET NO. 50-328
UNIT 2
DATE April 5, 1985
COMPLETED BY D. C. Dupree
TELEPHONE (615) 870-6248

MONTH MARCH

| Day | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|---|---|---|---|
| 1 | 1143 | 17 | 1136 |
| 2 | 1141 | 18 | 1133 |
| 3 | 1140 | 19 | 1130 |
| 4 | 1142 | 20 | 1130 |
| 5 | 1141 | 21 | 1130 |
| 6 | 1137 | 22 | 1131 |
| 7 | 1131 | 23 | 1132 |
| 8 | 1132 | 24 | 1134 |
| 9 | 1136 | 25 | 1134 |
| 10 | 1131 | 26 | 1130 |
| 11 | 1137 | 27 | 1127 |
| 12 | 1138 | 28 | 1132 |
| 13 | 1138 | 29 | 1129 |
| 14 | 1138 | 30 | 1129 |
| 15 | 1136 | 31 | 1128 |
| 16 | 1137 | | |

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.

TVA 7382A (DNP-6-81)

# NUCLEAR PLANT OPERATING STATISTICS

SEQUOYAH NUCLEAR Plant

Period Hours 744 Month MARCH 19 85

| | Item No. | Unit No. | Unit One | | Unit Two | | Plant |
|---|---|---|---|---|---|---|---|
| Generation | 1 | Average Hourly Gross Load, kW | 1,181,263 | | 1,172,473 | | 1,176,868 |
| | 2 | Maximum Hour Net Generation, MWh | 1,164 | | 1,148 | | 2,312 |
| | 3 | Core Thermal Energy Gen, GWD (t)[2] | 105.5936 | | 105.5084 | | 211.1020 |
| | 4 | Steam Gen. Thermal Energy Gen., GWD (t)[2] | 105.9634 | | 105.9003 | | 211.8637 |
| | 5 | Gross Electrical Gen., MWh | 878,860 | | 872,320 | | 1,751,180 |
| | 6 | Station Use, MWh | 32,284 | | 30,118 | | 62,402 |
| | 7 | Net Electrical Gen., MWh | 846,576 | | 842,202 | | 1,688,778 |
| | 8 | Station Use, Percent | 3.67 | | 3.45 | | 3.56 |
| | 9 | Accum. Core Avg. Exposure, MWD/Ton[1] | 10,883 | | 3,160 | | 14,043 |
| | 10 | CTEG This Month, $10^6$ BTU | 8,649,387 | | 8,642,402 | | 17,291,789 |
| | 11 | SGTEG This Month, $10^6$ BTU | 8,679,673 | | 8,674,505 | | 17,354,178 |
| | 12 | | | | | | |
| Factors & Use | 13 | Hours Reactor Was Critical | 744.0 | | 744.0 | | 1,488.0 |
| | 14 | Unit Use, Hours-Min. | 744:0 | | 744:0 | | 1,488:0 |
| | 15 | Capacity Factor, Percent | 99.9 | | 99.1 | | 99.5 |
| | 16 | Turbine Avail. Factor, Percent | 100.0 | | 100.0 | | 100.0 |
| | 17 | Generator Avail. Factor, Percent | 100.0 | | 100.0 | | 100.0 |
| | 18 | Turbogen. Avail. Factor, Percent | 100.0 | | 100.0 | | 100.0 |
| | 19 | Reactor Avail. Factor, Percent | 100.0 | | 100.0 | | 100.0 |
| | 20 | Unit Avail. Factor, Percent | 100.0 | | 100.0 | | 100.0 |
| | 21 | Turbine Startups | 0 | | 0 | | 0 |
| | 22 | Reactor Cold Startups | 0 | | 0 | | 0 |
| | 23 | Unit Service Hours | | | | | 744.0 |
| Efficiency | 24 | Gross Heat Rate, Btu/kWh | 9,840 | | 9,910 | | 9,870 |
| | 25 | Net Heat Rate, Btu/kWh | 10,220 | | 10,260 | | 10,240 |
| | 26 | Gross Heat Rate (w/o oil)BTU/KWH | | | | | 9,870 |
| | 27 | Net Heat Rate (w/o oil)BTU/KWH | | | | | 10,240 |
| Temp & Press | 28 | Throttle Pressure, psig | 855.6 | | 869.7 | | 862.7 |
| | 29 | Throttle Temperature, °F | 526.1 | | 527.9 | | 527.0 |
| | 30 | Exhaust Pressure, InHg Abs. | 2.2 | | 1.9 | | 2.1 |
| | 31 | Intake Water Temp., °F | 50.3 | | 51.1 | | 50.7 |
| | 32 | | | | | | |
| Flows | 33 | Main Feedwater, M lb/hr | 15.0 | | 15.3 | | 15.2 |
| | 34 | | | | | | |
| | 35 | | | | | | |
| | 36 | | | | | | |
| Misc. | 37 | Full Power Capacity, EFPD | 370.00 | | 363.65 | | 733.65 |
| | 38 | Accum. Cycle Full Power Days, EFPD | 283.6870 | | 82.2710 | | 365.9580 |
| | 39 | Oil Fired for Generation, Gallons | | | | | 1,716 |
| | 40 | Oil Heating Value, Btu/Gal. | | | | | 138,000 |
| | 41 | Diesel Generation, MWh | | | | | 26 |
| | 42 | | | | | | |

| Station Data | | Max. Hour Net Gen. | | | Max. Day Net Gen. | | Load Factor, % |
|---|---|---|---|---|---|---|---|
| | | MWh | Time | Date | MWh | Date | |
| | 43 | 2,304 | 1,900 | 03/04/85 | 55,056 | 03/01/85 | 98.4 |

Remarks: [1]For BFNP this value is MWD/STU and for SQNP and WBNP this value is MWD/MTU.
[2](t) indicates Thermal Energy.

Date Submitted _____ Date Revised _____



P.R. Wallace
Plant Superintendent

TVA 6560C (PP-3-76)

# UNIT OUTAGE AND AVAILABILITY

SEQUOYAH Nuclear Plant

Licensed Reactor Power 3411 MW(th)

Unit No. ONE

Generator Rating 1220.5 MW(e)

Month/Year MARCH/1985

Design Gross Electrical Rating 1183 MW

Period Hours 744

| Day | Time Unit Available | | | | | | Time Not Available | | | | | | | | Unit | | | | OUTAGE CAUSE | METHOD OF SHUTTING DOWN REACTOR | UNIT STATUS DURING OUTAGE | CORRECTIVE ACTION TAKEN TO PREVENT REPETITION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Gen. | | Not Used | | Turbine | | Gen. | | Reactor | | Unit | | Time Out | | Time In | | | | | |
| | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | | | | |
| 1 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 2 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 3 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 4 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 5 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 6 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 7 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 8 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 9 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 10 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 11 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 12 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 13 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 14 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 15 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 16 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 17 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 18 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 19 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 20 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 21 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 22 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 23 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 24 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 25 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 26 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 27 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 28 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 29 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 30 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 31 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| Total | 744 | 00 | 744 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |

TVA 6560C (PP-3-76)

# UNIT OUTAGE AND AVAILABILITY

SEQUOYAH Nuclear Plant

Licensed Reactor Power 3411 MW(th)

Unit No. TWO

Generator Rating 1220.5 MW(e)

Month/Year MARCH/1985

Design Gross Electrical Rating 1183 MW

Period Hours 744

| Day | Time Unit Available | | | | | | Time Not Available | | | | | | | | Unit | | | | OUTAGE CAUSE | METHOD OF SHUTTING DOWN REACTOR | UNIT STATUS DURING OUTAGE | CORRECTIVE ACTION TAKEN TO PREVENT REPETITION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Gen. | | Not Used | | Turbine | | Gen. | | Reactor | | Unit | | Time Out | | Time In | | | | | |
| | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | Hrs | Min | | | | |
| 1 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 2 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 3 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 4 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 5 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 6 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 7 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 8 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 9 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 10 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 11 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 12 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 13 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 14 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 15 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 16 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 17 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 18 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 19 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 20 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 21 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 22 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 23 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 24 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 25 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 26 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 27 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 28 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 29 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 30 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| 31 | 24 | 00 | 24 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |
| Total | 744 | 00 | 744 | 00 | | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | |

NO 3161 ONE MONTH BY DATE X 100 DIVISIONS
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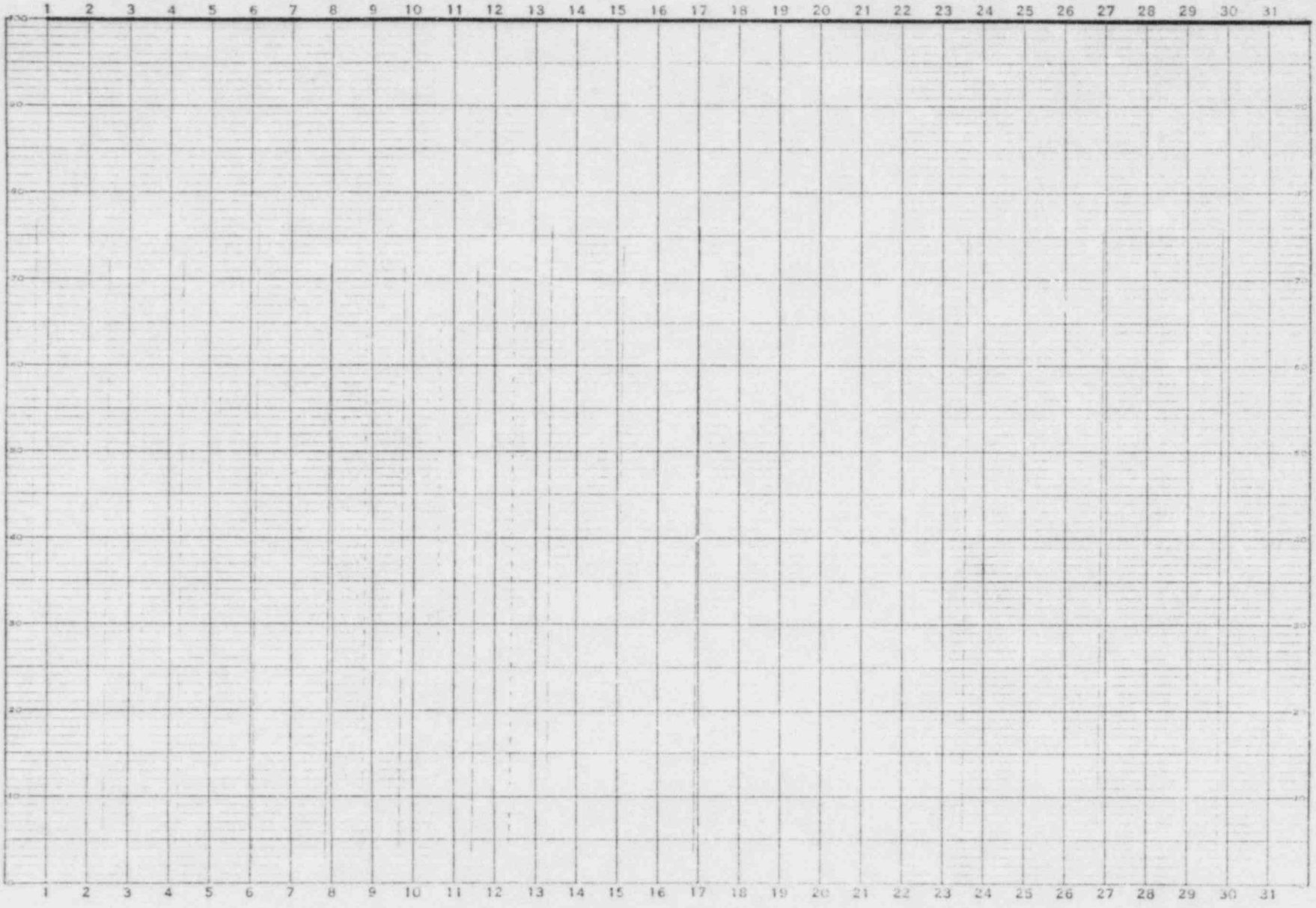
# SEQUOYAH NUCLEAR PLANT
## UNIT ONE
## REACTOR HISTOGRAM




MONTH OF MARCH 19 85

SEQUOYAH NUCLEAR PLANT
UNIT ONE
REACTOR HISTOGRAM
MARCH 1985

COMMENTS

The reactor maintained 100 percent power the entire month.

NO. 3161 ONE MONTH BY DAYS X 10C DIVISIONS.
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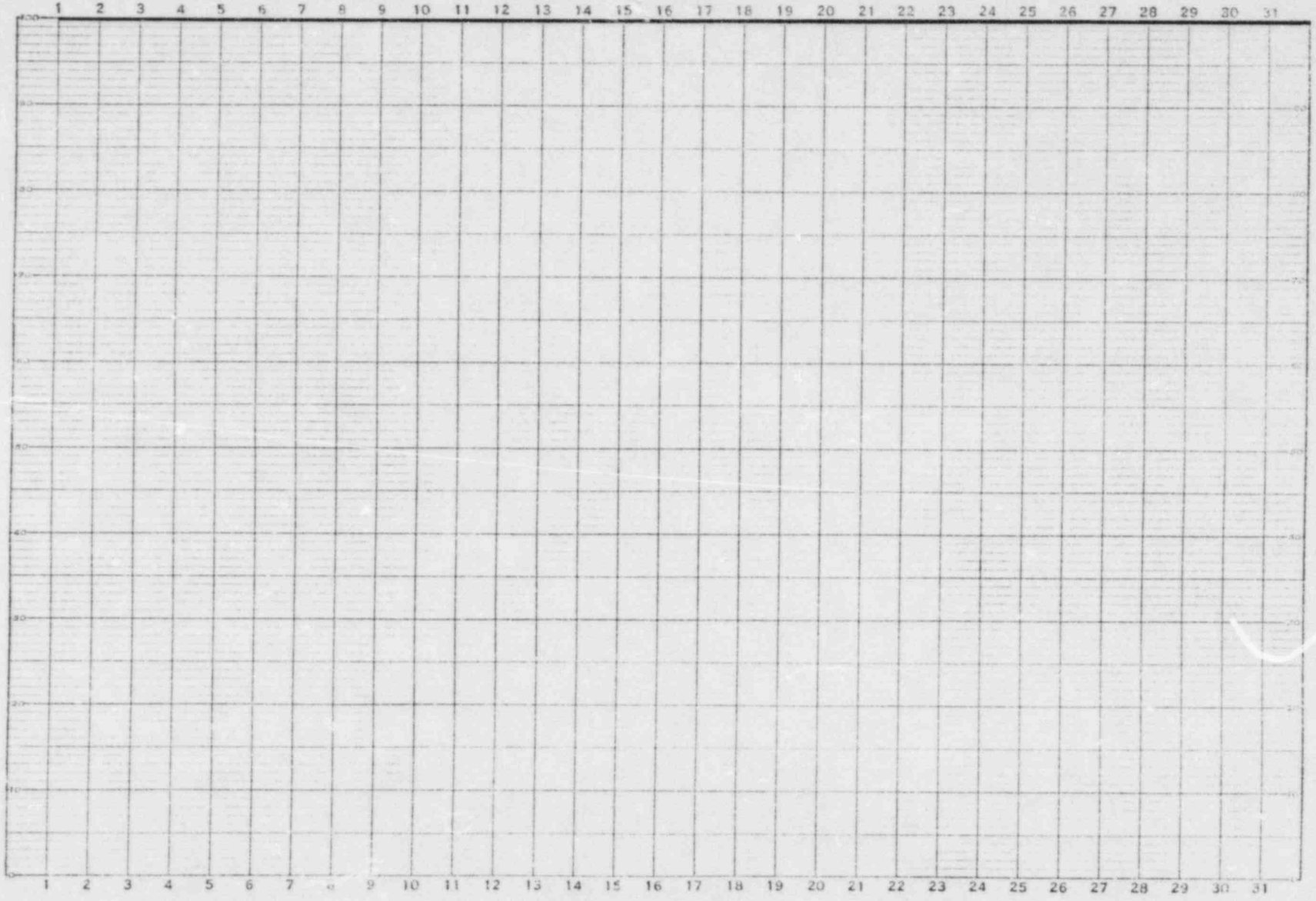
SEQUOYAH NUCLEAR PLANT
UNIT TWO
REACTOR HISTOGRAM




MONTH OF MARCH 19 85

SEQUOYAH NUCLEAR PLANT
UNIT TWO
REACTOR HISTOGRAM
MARCH 1985

COMMENTS

The reactor maintained 100 percent power the entire month.

MAINTENANCE SUMMARY

Construction Activities

March 1985

ECN L5503, 5111 -Office and Power Stores Facility.

Elev. 710 was transferred to NUC PR on March 15, with anticipated transfer of Elev. 694 on April 8. The HVAC system is being balanced at this time. Punch list items and landscaping work remains.

ECN L5609, 5610 - Make-up Water Treatment Plant.

The project is approximately 80% complete. Work on Phase I is complete and pre-op tests are being conducted. A FCR has been written to delete the sewage grinder system and to install a septic tank. It is awaiting approval from design. ECN 5610 yard piping is underway but cannot be completed until pre-op tests are completed. The turbine building piping and the 4" filtered water continues to be worked.

ECN L5841- Hot Machine Shop

All work is complete with the exception of the hallway on Elev. 706. This delay is due to power stores and will be completed when they move to their new facility. Also a mono-rail is to be added in the De-Con Room.

ECN L5599- Fifth Vital Battery.

This project is complete with the exception of the remaining Appendix R work. The remaining protective coating will be applied after maintenance is completed in battery rooms I, II, III, & IV.

ECN L5202-Fifth Diesel Generator Modification.

ERCW discharge piping is being installed in the yard at the present time. Pipe installation should be complete by April 8.

DCR L2108 - Flammable Liquid Storage Building

This project is approximately 85% complete. The remaining work consists of: built-up roof, air conditioning hook-up, testing and clean-up.

ECN L5932-5935 - Power Block Modifications

This project is overall 75% complete. Some cable pulling and equipment setting has been accomplished. Waiting on NRCs approval of the security plan so the remaining work can be completed.

ECN L6342-HP Calibration Facility

The work plan is being written. Modification work is scheduled to start in April and be completed by the end of May.

ECN L6182 Cooling Tower Repair

Cooling towers are in use in their "as is" condition. A requisition is being written for the repairs.

DATE: 04-01-85 ELECTRICAL MAINTENANCE MONTHLY REPORT FOR MARCH PAGE 1

| DATE..... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MR.NO.. |
|---|---|---|---|---|---|
| 03-25-85 | 1-HCTA-072-001 0B | CHECK BRAKES ON CONTAINMENT SPRAY PUMP 1B-B LOCKING LEVER LEVER WILL NOT CONNECT TO THE DOWN POSITION | BRAKES PACKED IN TOO TIGHT | REPAIRED LEVER AND LUBRICATED WITH WD40 | A529411 |
| 03-25-85 | 2-BATB-082-000 2B-B | DIESEL GENERATOR 2B-B DISTRIBUTION PANEL HAS A 05 VOLT NEGATIVE GROUND | NOT KNOWN AT THIS TIME | CHECKED FOUND NO GROUND AT THIS TIME GROUND METER READING 0 AT THIS TIME | A538533 |
| 03-25-85 | 0-BATB-082-000 0-B | SPARE DIESEL GENERATOR BATTERIES LOW ON WATER AND CHARGE | NO FAILURE PREVENTIVE MAINTANCE | ADDED WATER TO BATTERIES AND PUT ON CHARGE | A303234 |
| 03-25-85 | 0-PAIN-317 | PIPE TEE IN AUXILIARY BUILDING ELEVATION 714 A135 RUSTY | RUSTY AND NEEDS PAINTING | CLEANED AND PAINTED PIPE AS REQUESTED | A290837 |
| 03-25-85 | 2-MTRB-061-010 2A | CHARGING PUMP 2A-A MOTOR OUTBOARD BEARING RUNNING HOT | RESEAVOIR LOW ON OIL | ADDED OIL TO PROPER LEVEL | A536660 |
| 03-25-85 | 2-HTRB-082-000 2B | DIESEL GENERATOR WATER JACKET HEATERS 2B-B KEEP KICKING OUT OPERATOR HAS TO REBET 2 AND 3 TIMES A SHIFT | NO PROBLEM FOUND | HEATERS READING 480 VOLTS PHASE TO PHASE, AMP READING A PHASE 15.5, B PHASE 15.15, C PHASE 15.5 AND HEATERS ARE CYCLING ON AND OFF APPROXHATELY EVERY 3 MINUTES. CHECKED ALL CONNECTIONS, NO PROBLEMS WITH HEATERS AT THIS TIME | A529547 |
| 03-25-85 | 0-CHGB-250-000 J-G | 125 VITAL BATTERY CHARGER STAYS IN AND WILL NOT CLEAR | NO FAILURE | WORK WAS COMPLETED ON ANOTHER MR | A517847 |
| 03-25-85 | 1-CON-302 | CONDUIT CAP ELEVATION 714 AB U1, ABGTS CEILING ABOVE DOOR A183 | CONDUIT CAP MISSING | SEALED CONDUIT WITH RTV FOAM | A244447 |
| 03-25-85 | 0-CHR-311-0156 -A | 'A' CONTROL BUILDING CHILLER IS TRIPPED OUT ON OIL FAILURE | WATER FLOW OUT OF ADJUSTMENT | ADJUSTED WATER FLOW | A299426 |
| 03-25-85 | 1-MTRB-067-049 1 | CONTROL FUSES HAVE NO POWER FOR 2A-A STRAINER | ALIGNMENT PROBLEM IN CONTROL CIRCUIT VALVE LIMITS ON ISOLATION VALVE | CORRECTED ALIGNMENT PROBLEM | A300340 |

| DATE.... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MR.NO.. |
|---|---|---|---|---|---|
| | | | NOT PROPERLY MADE FOR RELAY PICK UP | | |
| 03-25-85 | 1-CHR-311-0028 | ELECTRICAL BOARD ROOM CHILLER HAS BUBBLES | WATER FLOW OUT OF ADJUSTMENT | ADJUSTED WATER FLOW | A529587 |
| 03-25-85 | 0-CHGR-250 | VITAL BATTERY IV EQUALIZER CHARGER OUT OF ADJUSTMENT | VOLTAGE OUT OF ADJUSTMENT | ADJUSTED EQUALIZER VOLTAGE TO 144 VOLTS AT BATTERY TERMINALS | A302984 |
| 03-25-85 | 0-CHR-313-0330 A | CHILLER LOW ON FREON | FLANGE LEAKING | REPAIRED LEAK, AND CHARGED UNIT WITH FREON | A299408 |
| 03-25-85 | 0-CHR-313-0303 A | 6.9KV SHUT DOWN BOARD ROOM CHILLER A-A PUMPS TRIP OUT | UNKNOWN AT THIS TIME | CHECKED CHILLER NOTHIN FOUND WRONG | A529529 |
| 03-25-85 | 0-CHER-250-000 Y-7 | VITAL BATTERY CHARGER IV WILL NOT CHARGE | EQUALIZER CHARGE VOLTAGE OUT OF ADJUSTMENT | ADJUSTED EQUALIZER VOLTAGE TO 144 VOLTS | A302979 |
| 03-25-85 | 0-MTR3-070 | PERFORM PREVENTIVE MAINTANCE ON 350 HORSE POWER MOTOR STORED IN WAREHOUSE | NO FAILURE PREVENTIVE MAINTANCE | PERFORMED AI-36 AS REQUESTED | A288059 |
| 03-25-85 | 1-CABL-093-0PL I070 | HIGH RESISTANCE IN CABLE 1PL1070&1066 | NOT KNOWN | CUT CABLE AT PENETRATION 33 & RESPLICED CABLE AT PENETRATION 33 | A249909 |
| 03-25-85 | 1-GENB-082-000 1B-B | TIME DELAY RELAY FOR DIESEL GENERATOR 1B-B DROPS OUT APPROX.17 SECONDS AND SHOULD DROP OUT AT 10+OR-1 SECONDS | TIMER NEEDED RESETTING | RESET TIMER PER MR SPECS | A538529 |
| 03-25-85 | 1-HTCK-234-030 0P | ALARM LIGHT IN CIRCUIT 300P WILL NOT RESET | HEAT TRACE CABLE BAD | PUT IN NEW TYPE HEAT TRACE AND ADDED TURNS TO CLEAR LIGHT | A299710 |
| 03-25-85 | 1-GENB-082-001 B-B | TIME DELAY RELAY #5 OPERATED AT 105 SECONDS INSTEAD OF 60 SEC. | TIMER NEEDED RESETTING | RESET TIMER AS REQUESTED | A538528 |
| 03-25-85 | 2-PEM-030 | PENETRATION 74PA12220005 NEED TO REPLACE SEARFORM BOARD ON TRAYS GL-A,EBG,GK-A,VAZ & PC-A | NO FAILURE PREVENTIVE MAINTANCE | REPLACED SERA BOARD AS REQUESTED | A280188 |

12:58:45 04-01-85 ELECTRICAL MAINTENANCE MONTHLY REPORT FOR MARCH PAGE 3

| DATE.... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MR.NO.. |
|---|---|---|---|---|---|
| 03-05-85 | 1-PEN-030 | PENETRATION 749A5086008 NEED TO REPLACE SEARFORM BOARD ON TRAYS HH-A,ECV,HI-A & VBG | NO FAILURE PREVENTIVE MAINTANCE | REPLACED SERA BOARD AS REQUESTED | A280186 |
| 03-05-85 | 2-PEN-030 | PENTRATION 734A1201W075 NEED TO REPLACE SEARFORM BOARD ON TRAY NEXT TO TRAY HH-B ABOVE DOOR | NO FAILURE PREVENTIVE MAINTANCE | REPLACED SERA BOARD AS REQUESTED | A280166 |
| 03-05-85 | 2-INVB-250-000 8 | 125 VITAL BATTERY #3 DISCHARGE ALARM DID NOT ALARM WHEN CURRENT WENT HIGHER THAN THE ALARM | THE ALARM SET POINT WAS TOO HIGH | REPLACED METER RELAY AND ADJUSTED TIMER TESTED FOR PROPER OPERATIONS AND RETURNED TO SERVICE | A518262 |
| 03-05-85 | 1-HTCK-234-CK3 65 | HEAT TRACE CIRCUIT #365 IS NOT WORKING | BAD HEAT TRACE | REPLACED HEAT TRACE CIRCUIT 365 P & S | A291494 |
| 03-05-85 | 2-VINV-250-C10 C | INVERTER ABNORMAL ALARM CAME IN | FAN FAILURE MOTOR BAD | REPLACED FAN MOTOR | A282873 |
| 03-05-85 | 0-CHR-213-0338 A | SHUT DOWN BOARD ROOM CHILLER B-B KEEPS TRIPPING OUT | BAD TEMPERTURE CONTROL VALVE | REPLACED TEMPERTURE CONTROL VALVE | A527322 |
| 03-05-85 | 2-FBV-067-0338 | EMERGANCY GAS TREATMENT SYSTEM ROOM COOLER FAN WILL NOT RUN | BAD ELECTRICAL COILS | REPLACED ASCO COIL 102-005-90 | A528677 |
| 03-25-85 | 0-CHGB-250-000 J-T | WHEN BATTERY CHARGER IV GOES OFF EQUALIZER CHARGER DROPS TO 90 VOLTS | FLOAT VOLTAGE OUT OF ADJUSTMENT | ADJUSTED FLOAT VOLTAGE | A528732 |
| 03-25-85 | 0-PAIN-364 | REPAINT FLOOR IN VENT PURGE ROOM | NO FAILURE PREVENTIVE MAINTANCE | PAINTED FLOOR AS REQUESTED | A283537 |
| 03-25-85 | 2-INVB-250-000 P | VITAL INVERTER FAN #II RUNS INTERMITTENTLY BEARING GETTING HOT | BAD FAN MOTOR | REPLACED FAN MOTOR | A529158 |
| 03-25-85 | 0-CHGB-250-000 H-F | VITAL BATTERY CHARGER #III IS NOT WORKING ON EQUALIZE | RESISTERS BAD R5 ANDR3 | REPLACED RESISTERS | A298430 |
| 03-25-85 | 1-MTRB-003-005 7-A | NO CONTROL POWER LIGHTS SHOWING IN MAIN CONTROL ROOM | INSTRUMENT LAMPS BAD | REPLACED INSTREMENT LAMPS PLACED JUMPER ACROSS 17CR TO 17CX1 | A038538 |

| DATE.... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MR.NO.. |
|---|---|---|---|---|---|
| 03-25-85 | 2-PNLA-082-00T W | DEISEL GENERATOR GROUND METER NOT WORKING | BAD GROUND METER | REPLACED DEFECTIVE GROUND METER | A279409 |
| 03-25-85 | 0-CHGB-250 | 125VOLT VITAL BATTERY CHARGER IV WILL NOT HOLD VOLTAGE ABOVE 87 VOLTS | RESISTER BAD, CAPACITOR AND ONE DIODE BAD | REPLACED RESISTER R5, REPLACED CAPACITOR AND ONE DIODE | A529174 |
| 03-25-85 | 0-LS-082-5015 | REMOVE LEVEL SWITCH AND ASSOCIATED JUNCTION BOX AND CONDUIT TO ASSIST MECHANTICAL MAINTANCE IN REPAIR WORK ON DIESEL GENERATOR ENGINE 1A1 | NO FAILURE PREVENTIVE MAINTANCE | REMOVED LEVEL SWITCH, JUNCTION BOX AS REQUESTED | A538535 |
| 03-25-85 | 1-BATB-082-001 B-B | DIESEL GENERATOR BATTERY 1B-B CELL #2 HAS EXCESSIVE CORROSION ON CONNECTION TO DISTRIBUTION PANEL CHARGER | NO FAILURE PREVENTIVE MAINTANCE | CLEANED CORROSION AND APPLIED NOLAX TO CONNECTOR | A538534 |
| 03-26-85 | 0-MTRB-013-SPA RE | PERFORM BRIDGE AND MEGGER TEST PER MI 10.20 ON SPARE FIRE PUMP MOTOR | NO FAILURE PRECENTIVE MAINTANCE | PERFORMED MI 10.20 AS REQUESTED | A518184 |
| 03-26-85 | 2-HTCK-062-056 S | CVC HEAT TRACE CIRCUIT 865 HAS SHORT | HEAT TRACE CABLE WAS DAMAGED | REPLACED HEAT TRACE CABLE | A282652 |
| 03-26-85 | 0-XX-039 | THE SOLENOID ON THE HOLD OPEN DEVICES FOR THE FIRE DOOR IS CHATTERING | SOLENOID LOOSE, LATCH OUT OF ADJUSTMENT AND DIRTY | CLEANED AND ADJUSTED LATCH TIGHTENED SOLENOID TO PREVENT NOISE RELEASE MECHANISM STILL NEEDS REPLACING | A032181 |
| 03-26-85 | 0-BATB-250-000 X-7 | 125 VOLT VITAL DIRECT CURRENT BOARD III HAS 130 VOLT NEGATIVE GROUND | GROUND IS ON #3 STEAM GENERATOR BLOW DOWN ISOLATION VALVE | TO BE COMPLETED ON MR529537 | A529118 |
| 03-26-85 | 1-GENB-082-000 1A-A | DIESEL GENERATOR 1A-A BATTERY HAS A 15 VOLT NEGATIVE GROUND | DIRTY BATTERIES | CLEANED BATTERIES AND REDUCED GROUND TO 2.5 V.D.C TO GROUND | A287538 |
| 03-26-85 | 0-LOCL-013-061 0 | PYROTRONICS PANEL 610 ZONE 138-B UNIT 2 HEAT AND VENT FAN HAS TROUBLE LIGHT AND WON'T CLEAR | WATER IN CONDUIT CAUSING CORROSSION ON DETECTOR CONTACTS XB-13-161E | REPLACED DETECTOR CLEANED WATER FROM CONDUIT | A529293 |
| 03-26-85 | 2-HTCK-062-004 | CVC HEAT TRACING | CURRENT RELAY BAD | REPLACED RELAY USING | A299743 |

| DATE.... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MR.NO.. |
|---|---|---|---|---|---|
| | 2P | DISTRIBUTION PANEL A-3 UNIT 2 AB ELEVATION 669 SHOWS CIRCUIT 42P NOT HEATING | | MI6.20 AMPS WERE 2.5 | |
| 03-27-85 | 0-BKRA-031 | FOUND BREAKER DEFECTIVE ON PMT-31 OF FIFTH VITAL BATTERY ROOM DUCT HEATER B | DEFECTIVE BREAKER | REPLACED DEFECTIVE BREAKER | A513144 |
| 03-27-85 | 0-LOCL-013-061 0 | TROUBLE ALARM KEEPS COMMING IN ON PYROTRONICS PANEL 610 | CORROSION FOUND ON TERMINALS OF DETECTOR, PROBLEM CAUSED BY WATER CONDENSATING IN CONDUIT | REPLACED DETECTOR XS-161-D IN ZONE 139 PANEL 610 | A535177 |
| 03-27-85 | 2-MTRB-067-049 1-A | FILTER STAYS IN CONTINUOUS ON STRAINER A-A OF ERCW SCREEN BACKWASH SWITCH | 2-PDIS-67-491B/A OUT OF CALABRATION | RECALIBRATED 2-PDIS-67-491B/A TROUBLE SHOT WIRING USING MI 6.20 NO PROBLEM FOUND VALVE WORKING PROPERLY AT THIS TIME | A301053 |
| 03-27-85 | 0-HTCK-234-33P & 33S | HEAT TRACE CIRCUITS 33P AND 33S ARE BAD AND NEED REPLACING | BAD HEAT TRACE CABLE | REPLACED HEAT TRACE CIRCUIT 33P & 33S LAID WIRES BACK DOWN OF M&AI 12 CHECKED OPERATION OF CONTROLERS 33P IS PULLING 9 AMPS 33S IS PULLING 10 AMPS DID NOT CHANGE WRAPS ON CT THE LIGHTS ON PANEL DID NOT COME ON | A520171 |

48 RECORDS LISTED.

## ELECTRICAL MODIFICATIONS SECTION

### MARCH 1985

DCR 1739 - Installation of the VAACS Computer

The CPU has been energized. Diagnostics is in process.

ECN 5024 - Installation of the Steam Generator Lay-Up Water System.

Installation of piping insulation continues.

ECN 5119 - Installation of the Radiation Monitoring Cables in conduit.

Conduit installation is 80 percent complete. Cable pulls have commenced.

ECN 5194 - Iodine Monitors

Security parts and phones are on order. Waiting for Power Block reconfiguration to place doors into the security system.

ECN 5200 - Unit 1 Postaccident Sampling Facility

Rework of the postmodification test deficiencies is in progress.

ECN 5202 - Fifth Diesel Generator

Workplan to install breaker and hot up the building is available for work. There is come CONST work required prior to placing building on permanent power.

ECN 5237- Laundry Facility

Installation of pressure switches, temperature switches, and phones is in progress. Radiation monitor work in the main control room is complete.

ECN 5484 - Installation of Power Outlets in the Ice Condenser

This work is complete for Unit 1.

ECN 5495 - Field Services Building

The building has been placed on permanent power. Work on the fire detection system is in progress.

ECN 5565 - Inplant Repeaters

The radio recombiner has been installed. The addition of a third general use channel is complete. This ECN is complete.

ECN 5664 - Replacement of the Relays in the Wells Fargo Alarms

Remaining work is in hold until Construction abandons the cables at the ERCW pumping station.

ECN 5845 - Delete Nuisance Alarms

This ECN is complete.

ECN 5874 - Add Oil System on the RCP Motors

Workplan writing is in progress.

ECN 5881 - Replace Limit Switches

Workplan is ready for work during the ice outage.

ECN 5883 - Replace Flow Switches and Various Other Instruments

Pressure Switch workplan remains in the approval cycle.

ECN 5898 - Revise Limit Switch Logic

Pre-outage work is complete.

ECN 5970 - Replace Valve Operators

All pre-outage operators have been changed out.

ECN 6032 - Relocate Hydrogen Analyzers

All pre-outage work is complete.

ECN 6057 - Cable Tray Covers

Approximately 240 out of 290 cable tray covers have been remanufactured or replaced.

ECN 6200 - Relocate Mainsteam Pressure Transmitters

Work has commenced.

ECN 6204 - Electrical Penetration Overcurrent Protection

Fuse replacement and fuse block installation is complete. Waiting for a Tech Spec change to place the circuits in operation.

ECN 6207 - Install Moisture Seals and Conduit Seals

Workplan writing is in progress.

Appendix R

ECN 6209 - Wrap Fire Protective Blanket Around Conduit

Approximately 70 percent of the conduits assigned to this ECN have been wrapped.

ECN 6235 - Reroute Various Cables

The first workplan is being written.

ECN 6260 - Wrap Conduits

Work is complete.

ECN 6316 - Seal for Penetrations

Work is approximately 30 percent complete.

## INSTRUMENT MAINTENANCE

### Unit 1

1. Performed monthly calibration of UHI level switches, SI-196. One switch 1-LS-87-22, was out of tolerance. PRC 1-85-93 was written.

2. Westinghouse completed the recalibration of RVLIS instrument racks.

3. The system 30 containment pressure transmitters PDT-30-44 and -45 were replaced with qualified Barton model 764s. The old transmitters were Foxboro model E11GMs scaled -1 to 15 psig. The presently installed Bartons are scaled -1 to 17 psig which required a complete rescaling of the instrument loops and replacement of the scales on the control room indicators.

4. The commitment to NRC to delete the reset function on the SI block switches was extended to allow the modification to be performed during the ice outage.

5. NCR SQNNEB 8403 stated that the useful life of the containment $H_2$ analyzers would be limited during a LOCA due to the calayst being poisoned by large concentrations of iodine. To correct this deficiency the vendor supplied a capsule containing a larger quantity of catalyst. The new catalyst capsules were installed in both trains A and B. Subsequent testing revealed that the diffusion time for gas to pass through the catalyst increased the hold period for each calibration point from five minutes to 45 minutes.

   A previous analysis by site services showed that the original catalyst was adequate. The analysis that generated the NCR was based on a large BWR with higher iodine concentrations than SNP. Train B has been returned to the original catalyst configuration to reduce out of service time for calibration and functional testing. Train A catalyst will be returned to its original configuration in the near future.

6. The calibration of the new water treatment instruments in system 928 is approximately 90% complete.

### Unit 2

1. Performed monthly calibration of UHI level switches, SI-196.2. All switches were within tolerance.

2. The calibration of the RVLIS racks is still in progress. Unit 2 calibration is being handled by Instrument Maintenance.

3. The system 30 containment pressure transmitters PDT-30-44 and -45 were replaced with qualified Barton model 764s. The old transmitters were Foxboro model E11GMs scaled -1 to 15 psig. The presently installed Bartons are scaled -1 to 17 psig which required a complete rescaling of the instrument loops and replacement of the scales on the control room indicators.

4. Deletion of the reset function on the SI block switches was completed by WP-11519. This satisfied the commitment made to NRC for unit 2.

5. A correction factor of 1.6% was entered into the P250 to compensate feedwater flow error due to fouling in the feedwater nozzle.

6. Recalibrated NIS Intermediate Range drawers for new core data per RTI-8.

INSTRUMENT MAINTENANCE MONTHLY SUMMARY 04-03-85 PAGE 1

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A102996 | 2 | PT | 003 | 122A | 03/22/85 | 2-PT-003-122A, VERIFY CALIB OF 2 PT 3 122A LOOP TO BE WITHIN TOLERANCE. REQ'D FOR PMT 53 RETEST ON APPROX 3/27/85 | PRESS. TRANSMITTER WAS FOUND OUT OF CALIB ON THE LOW SIDE OF TOLERANCE. PRESS. TRANSMITTER WAS RECALIB |
| A103000 | 2 | PT | 003 | 132A | 03/27/85 | 2-PT-003-132A, VERIFY CALIB | PRESS. TRANSMITTER WAS FOUND SLIGHTLY OUT OF CALIB ON THE LOW SIDE OF TOLERANCE. PRESS. TRANSMITTER WAS RECALIB. |
| A243492 | 1 | PCV | 001 | 12 | 03/21/85 | 1-PCV-001-12, REGULATOR IS LEAKING AIR IN AN EXTREME MANNER | GASKET ON THE VLV POSITIONER WAS LEAKING. GASKET ON THE POSITIONER WAS REPLACED; THE VLV WAS STROKED; AND RETURNED TO SERVICE |
| A284978 | 2 | XX | 092 | 5003 | 03/25/85 | 2-XX-092-5003, RECALIB HIGH LVL AND ROD STOP BISTABLES PER RTD 8 DATA | NONE; RECAL PER RTI 8-RECAL TO NEW SETPOINT |
| A284979 | 2 | | 092 | 5004 | 03/25/85 | 2--092-5004, RECALIB HIGH LVL AND ROD STOP BISTABLES PER RTI 8 DATA | NONE; RECAL PER RTI 8-RECAL TO NEW SETPOINT |
| A299184 | 2 | | 099 | SSPS | 03/02/85 | 2--099-SSPS, SUSPECT CLOCK PROBLEMS WITH SSPS TRAIN 8 TO COMPUTER RM | BAD ISOLATION BOARD-REPLACED BAD BOARD |
| A299241 | 2 | XI | 092 | 5005B | 03/04/85 | 2-XI-092-5005B, % FULL PWR METER READING HIGH | IND. OUT OF CAL. RECAL IND. |

7 records listed.

## Mechanical Maintenance Section

March 1985

### Unit 0

1. Repairs were made to the potable water line in the diesel building.
2. A temporary demineralizer PVC line was repaired.
3. "H" waste gas decay tank relief valve was repaired.
4. Replaced the acid pump in the temporary demineralizer.
5. Replaced the bearing lube water strainers to the cooling tower lift pumps, 2-A & 2-B.
6. Replaced the EHC filter caps.

### Unit 1

1. Investigating the low discharge pressure on 1B-B fire pump.
2. Replaced 1A-A fire pump.
3. Replaced the lube oil cooler on 1A-1 diesel engine.
4. Replaced the belts on the 1A-A 6.9 kV shutdown board room air handling unit.

### Unit 2

1. Alinged 2-B stator cooling water pump.
2. Replaced the gasket on the B-B auxiliary air compressor to correct a cover plate leak.
3. Pulled the 2B-B fire pump to change-out the motor.
4. Changed-out the 2B-B seal water injection filter.
5. Rerouted the drain lines on the main turbine oil tank vapor extractor discharge.
6. Repaired the B gas stripper feed pump.
7. Replaced the inboard seal on 2A-A centrifugal charging pump.

## Mechanical Modification Section

March 1985

ECN 2780/5200 - Post Accident Sampling Facilities

Minor replacement/repair parts were received and installed.

ECN 5938 - Feedwater Heaters

X-raying of the #4 heaters was completed without repairs. Work continues on the reinforcing of the nozzles on the #3 heaters. Installation of the mono-rails and various support steel continues. Additional pipe reroutes for access was completed.

"Appendix R"

ECN 6319 - Two workplans for plugging and relocating sprinkler heads were placed in the approval cycle.

ECN 6311 - A. The workplan to clear deficiencies associated with the open penetrations in the Auxiliary Building general areas on El. 714, 690, 653 was written and worked. This item should be completed.

B. The valve operator extension was started under the workplan to core drill the valve room wall.

ECN-5373 - Con Demin Air Compressor - The mechanical work was completed. Insulation and painting activities are in progress. Upon completion of the electrical work a vendor representative will be here for start-up testing.

ECN 6328/6356 ERCW Flange and Reducer Replacement - Upon removing the first reducer, it was discovered that the flanges had degraded also. ECN 6356 was issued, a workplan prepared and was approved. Replacement of the flanges and reducers is continuing.

ECN-0588 - 6032 - H2 Monitor Relocation: A decision was made to procure WBNP's monitors to install them at Sequoyah in the new location. This will reduce the work required to be performed during the ice outage. Sequoyah's monitor will be returned to WBNP.

6231 - Relocation of pipe and hangers for motor operators. One hanger workplan was worked. The piping reroute workplan remains in the approval cycle.

Component Heat Exchanger Replacement. Review of various options continues. A trip to Salem Nuclear Plant was made by modification, site services, and maintenance personnel.

MSR Tube Bundle Replacement. Efforts continues in finalizing the work to be done and the evaculation of various options.

Ice Outage - Planning & Scheduling Activities continues.

ECN 5009 - ERCW Piping Replacement - Work was started on the replacement of piping to the AFW boric acid room cooler. SI-566 was started with the results dictating future work and scheduling.

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

April 12, 1985

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

Gentlemen:

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

O.R. Wallace

P. R. Wallace
Plant Manager

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