TENNESSEE VALLEY AUTHORITY

DIVISION OF NUCLEAR POWER

SEQUOYAH NUCLEAR PLANT

# MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

December 1, 1985 - December 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

8604020144 851231
PDR ADOCK 05000327
R PDR

DE24
1/1

TABLE OF CONTENTS

# Operations Summary

## December 1985

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

## Unit 1

Unit one, cycle three refueling/modification outage ended at 2400c, December 19, 1985. The unit remained in an administrative shutdown due to documentation concerns relating to the environmental qualifications of various electrical equipment (NUREG 0588). Maintenance and other modifications remain in progress. The present schedule for synchronization of unit one is February 10, 1986. Actual start-up is dependent upon NRC review of the Sequoyah Start-up Readiness Plan and the resolution of significant employee concerns. The unit has been off-line 131 days.

## Unit 2

The unit remained in the administrative shutdown the entire month due to documentation concerns relating to the environmental qualification of various electrical equipment (NUREG 0588). Outage related maintenance and modifications are being performed. The present schedule has the unit prepared to return to service on February 2, 1986. Actual start-up is dependent upon NRC review of the Sequoyah Startup Readiness Plan and the resolution of significant employee concerns. The unit has been off-line 132 days.

## Significant Operational Events

### Unit 1

| Date | Time | Event |
|---|---|---|
| 12/1/85 | 0001C | Cycle 3 refueling/modification outage continued. The reactor was in mode #5. |
| 12/19/85 | 2400C | All refueling outage activities were completed. The unit entered a forced administrative outage due to documentation concerns relating to NUREG 0588 equipment. |
| 12/31/85 | 2400C | The reactor was in mode #5. The administrative shutdown due to NUREG 0588 concerns continues. |

### Unit 2

| Date | Time | Event |
|---|---|---|
| 12/1/85 | 0001C | The reactor was in mode #5. The administrative shutdown due to NUREG 0588 concerns continues. |
| 12/31/85 | 2400C | The reactor was in mode #5. The administrative shutdown due to NUREG 0588 concerns continues. |

## Fuel Performance

### Unit 1

The core average fuel exposure accumulated during December was 0.00 MWD/MTU.

### Unit 2

The core average fuel exposure accumulated with the total accumulated during December was 0.00 MWD/MTU with the total accumulated core average exposure of 8097.51 MWD/MTU.

## Spent Fuel Pit Storage Capabilities

The total storage capability in the spent fuel pit (SFP) is 1,386. However, there are five cell locations which are incapable of storing spent fuel. Four locations (A10, A11, A24, A25,) are unavailable due to a suction strainer conflict and one location (A16) is unavailable due to an instrumentation conflict. Presently, there are a total of 348 spent fuel bundles stored in the SFP. Thus, the remaining storage capacity is 1,033.

## PORVs and Safety Valves Summary

No PORVs or safety valves were challenged in December 1985.

## Licensee Events and Special Reports

The following licensee event report (LER) was reported to the Nuclear Regulatory Commission in December 1985.

| LER | DESCRIPTION OF EVENT |
|---|---|
| 1-85046 | On November 14, 1985, at 1305 CST, with unit 1 in mode 6, a deluge valve, 1-FCV-26-231, on high pressure fire protection (HPFP) inadvertently opened and charged the fire hose stations in unit containment annulus and the area around the reactor coolant pumps (RCPs). After investigation, the valve was manually isolated and the Unit Operator (UO), after reviewing the HPFP drawings, determined that only the hose stations around the RCPs were being isolated. In actuality, the annulus hose stations are supplied by this header also and therefore, they were isolated. Since the annulus contains equipment that was required operable, a failure to comply with action (a) of Technical Specification LCO 3.7.11.4 occurred in that backup hoses were not run (required within 24 hours). This condition remained until its discovery on November 18, 1985, at approximately 1345 CST, during the performance of a HPFP surveillance on valve positions. At that time, the header and associated hose stations were returned to service. |
| 1-85047 | Technical Specification 6.12.2 requires access to high radiation areas be controlled by locks with keys administratively controlled by the shift engineer and/or health physics. On December 15, 1985, it was discovered that several employees may have had keys to locks for six high or potentially high radiation areas. |

| LER | DESCRIPTION OF EVENT (cont.) |
|---|---|
| 1-850048 | An NRC inspection team on December 6, 1985, identified that the maintenance program guidelines (SQM-2 and SQM-57) were required to be PORC reviewed and failure to do so was a violation of the technical specification 6.8.2. |

## Special Reports

There were no special reports for the month of December 1985.

## 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 JANUARY 6,1986
COMPLETED BY D.C.DUPREE
TELEPHONE (615)870-6544

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 1
2. REPORT PERIOD: DECEMBER 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:

NOTES:

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 | 8760.00 | 39481.00 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 0.00 | 3797.25 | 24444.91 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 14. HOURS GENERATOR ON-LINE | 0.00 | 3762.18 | 23871.13 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 0.00 | 12383285.96 | 77060971.91 |
| 17. GROSS ELECTRICAL ENERGY GEN. (MWH) | 0.00 | 4239570.00 | 25976386.00 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | -196.00 | 4061107.00 | 24942737.00 |
| 19. UNIT SERVICE FACTOR | 0.00 | 42.95 | 60.46 |
| 20. UNIT AVAILABILITY FACTOR | 0.00 | 42.95 | 60.46 |
| 21. UNIT CAPACITY FACTOR(USING MDC NET) | 0.00 | 40.38 | 55.03 |
| 22. UNIT CAPACITY FACTOR(USING DER NET) | 0.00 | 40.38 | 55.03 |
| 23. UNIT FORCED OUTAGE RATE | 38.71 | 17.89 | 16.27 |

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:
FEBRUARY 10,1986,PENDING N.R.C. REVIEW OF SEQUOYAH NUCLEAR PLANT STARTUP READINESS PLAN.

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

# OPERATING DATA REPORT

DOCKET NO. 50-328
DATE JANUARY 6,1986
COMPLETED BY D.C.DUPREE
TELEPHONE (615)870-6544

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 2 NOTES:
2. REPORT PERIOD: DECEMBER 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 | 8760.00 | 31441.00 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 0.00 | 5289.42 | 21984.54 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 14. HOURS GENERATOR ON-LINE | 0.00 | 5224.24 | 21494.42 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.00 | 0.00 | 0.00 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 0.00 | 17128966.35 | 69127977.22 |
| 17. GROSS ELECTRICAL ENERGY GEN. (MWH) | 0.00 | 5845100.00 | 23536780.00 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | -4096.00 | 5610949.00 | 22631957.60 |
| 19. UNIT SERVICE FACTOR | 0.00 | 59.64 | 68.36 |
| 20. UNIT AVAILABILITY FACTOR | 0.00 | 59.64 | 68.36 |
| 21. UNIT CAPACITY FACTOR(USING MDC NET) | 0.00 | 55.79 | 62.70 |
| 22. UNIT CAPACITY FACTOR(USING DER NET) | 0.00 | 55.79 | 62.70 |
| 23. UNIT FORCED OUTAGE RATE | 100.00 | 40.32 | 19.05 |

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: FEBRUARY 02,1986,PENDING N.R.C. REVIEW OF SEQUOYAH NUCLEAR PLANT STARTUP READINESS PLAN.

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 JANUARY 2, 1986
COMPLETED BY D. C. DUPREE
TELEPHONE (615)870-6544

REPORT MONTH DECEMBER 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 |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 850822 | S | 456 | C | 4 | | | | Refueling/Modification Outage |
| 7 | 851220 | F | 288 | F | 9 | | | | NUREG 0588 Documentation Concerns |

[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

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-328
UNIT NAME SEQUOYAH TWO
DATE JANUARY 2, 1986
COMPLETED BY D. C. DUPREE
TELEPHONE (615)870-6544

REPORT MONTH DECEMBER 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 |
|---|---|---|---|---|---|---|---|---|---|
| 9 | 850821 | F | 744 | F | 4 | | | | NUREG 0588 Documentation Concerns |
| | | | | | | | | | |

[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

SEQUOYAH NUCLEAR PLANT
AVERAGE DAILY POWER LEVEL

DOCKET NO. : 50-327
UNIT : ONE
DATE : JANUARY 6,1986
COMPLETED BY : D. C. DUPREE
TELEPHONE :(615)870-6544

MONTH DECEMBER 1985

| DAY | AVERAGE DAILY POWER LEVEL (MWe Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe Net) |
|---|---|---|---|
| 01 | 0 | 17 | 0 |
| 02 | 0 | 18 | 0 |
| 03 | 0 | 19 | 0 |
| 04 | 0 | 20 | 0 |
| 05 | 0 | 21 | 0 |
| 06 | 0 | 22 | 0 |
| 07 | 0 | 23 | 0 |
| 08 | 0 | 24 | 0 |
| 09 | 0 | 25 | 0 |
| 10 | 0 | 26 | 0 |
| 11 | 0 | 27 | 0 |
| 12 | 0 | 28 | 0 |
| 13 | 0 | 29 | 0 |
| 14 | 0 | 30 | 0 |
| 15 | 0 | 31 | 0 |
| 16 | 0 | | |

SEQUOYAH NUCLEAR PLANT
AVERAGE DAILY POWER LEVEL

DOCKET NO. : 50-328

UNIT : TWO

DATE : JANUARY 6,1986

COMPLETED BY : D. C. DUPREE

TELEPHONE : (615)870-6544

MONTH DECEMBER 1985

| DAY | AVERAGE DAILY POWER LEVEL (MWe Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe Net) |
|---|---|---|---|
| 01 | 0 | 17 | 0 |
| 02 | 0 | 18 | 0 |
| 03 | 0 | 19 | 0 |
| 04 | 0 | 20 | 0 |
| 05 | 0 | 21 | 0 |
| 06 | 0 | 22 | 0 |
| 07 | 0 | 23 | 0 |
| 08 | 0 | 24 | 0 |
| 09 | 0 | 25 | 0 |
| 10 | 0 | 26 | 0 |
| 11 | 0 | 27 | 0 |
| 12 | 0 | 28 | 0 |
| 13 | 0 | 29 | 0 |
| 14 | 0 | 30 | 0 |
| 15 | 0 | 31 | 0 |
| 16 | 0 | | |

TVA 7382 A (DNP-6-81)

# NUCLEAR PLANT OPERATING STATISTICS

SEQUOYAH NUCLEAR Plant

Period Hours 744 Month DECEMBER 19 85

| | Item No. | Unit No. | UNIT ONE | | UNIT TWO | | PLANT |
|---|---|---|---|---|---|---|---|
| Generation | 1 | Average Hourly Gross Load, kW | 0 | | 0 | | 0 |
| | 2 | Maximum Hour Net Generation, MWh | 0 | | 0 | | 0 |
| | 3 | Core Thermal Energy Gen, GWD (t)[2] | 0 | | 0 | | 0 |
| | 4 | Steam Gen. Thermal Energy Gen., GWD (t)[2] | 0 | | 0 | | 0 |
| | 5 | Gross Electrical Gen., MWh | 0 | | 0 | | 0 |
| | 6 | Station Use, MWh | 196 | | 4069 | | 4265 |
| | 7 | Net Electrical Gen., MWh | -196 | | -4069 | | -4265 |
| | 8 | Station Use, Percent | N/A | | N/A | | N/A |
| | 9 | Accum. Core Avg. Exposure, MWD/Ton[1] | 0 | | 8098 | | 8098 |
| | 10 | CTEG This Month, $10^6$ BTU | 0 | | 0 | | 0 |
| | 11 | SGTEG This Month, $10^6$ BTU | 0 | | 0 | | 0 |
| | 12 | | | | | | |
| Factors & Use | 13 | Hours Reactor Was Critical | 0.0 | | 0.0 | | 0.0 |
| | 14 | Unit Use, Hours-Min. | 0:00 | | 0:00 | | 0:00 |
| | 15 | Capacity Factor, Percent | 0.0 | | 0.0 | | 0.0 |
| | 16 | Turbine Avail. Factor, Percent | 0.0 | | 0.0 | | 0.0 |
| | 17 | Generator Avail. Factor, Percent | 0.0 | | 0.0 | | 0.0 |
| | 18 | Turbogen. Avail. Factor, Percent | 0.0 | | 0.0 | | 0.0 |
| | 19 | Reactor Avail. Factor, Percent | 0.0 | | 0.0 | | 0.0 |
| | 20 | Unit Avail. Factor, Percent | 0.0 | | 0.0 | | 0.0 |
| | 21 | Turbine Startups | 0 | | 0 | | 0 |
| | 22 | Reactor Cold Startups | 0 | | 0 | | 0 |
| | 23 | | | | | | |
| Efficiency | 24 | Gross Heat Rate, Btu/kWh | N/A | | N/A | | N/A |
| | 25 | Net Heat Rate, Btu/kWh | N/A | | N/A | | N/A |
| | 26 | | | | | | |
| | 27 | | | | | | |
| Temp & Press | 28 | Throttle Pressure, psig | N/A | | N/A | | N/A |
| | 29 | Throttle Temperature, °F | N/A | | N/A | | N/A |
| | 30 | Exhaust Pressure, InHg Abs. | N/A | | N/A | | N/A |
| | 31 | Intake Water Temp., °F | N/A | | N/A | | N/A |
| | 32 | | | | | | |
| Flows | 33 | Main Feedwater, M lb/hr | N/A | | N/A | | N/A |
| | 34 | | | | | | |
| | 35 | | | | | | |
| | 36 | | | | | | |
| Misc. | 37 | Full Power Capacity, EFPD | 404.86* | | 363.65 | | 768.51 |
| | 38 | Accum. Cycle Full Power Days, EFPD | 0.0 | | 210.8416 | | 210.8416 |
| | 39 | Oil Fired for Generation, Gallons | | | | | 2,244 |
| | 40 | Oil Heating Value, Btu/Gal. | | | | | 138,000 |
| | 41 | Diesel Generation, MWh | | | | | 34 |
| | 42 | | | | | | |

| Station Data | | Max. Hour Net Gen. | | | Max. Day Net Gen. | | Load Factor, % |
|---|---|---|---|---|---|---|---|
| | | MWh | Time | Date | MWh | Date | |
| | 43 | N/A | N/A | N/A | N/A | N/A | N/A |

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

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 DECEMBER 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 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | Refueling Outage Continues | N/A | Mode #5 | |
| 2 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 3 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 4 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 5 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 6 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 7 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 8 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 9 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 10 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 11 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 12 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 13 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 14 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 15 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 16 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 17 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 18 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 19 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 20 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | Refueling Outage ends @2400C | N/A | Mode #5 | |
| 21 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | NUREG 0588 Outage begins @ 0001C | N/A | Mode #5 | |
| 22 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 23 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 24 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 25 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 26 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 27 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 28 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 29 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 30 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 31 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| Total | 00 | 00 | 00 | 00 | | | 744 | 00 | 744 | 00 | 744 | 00 | 744 | 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)

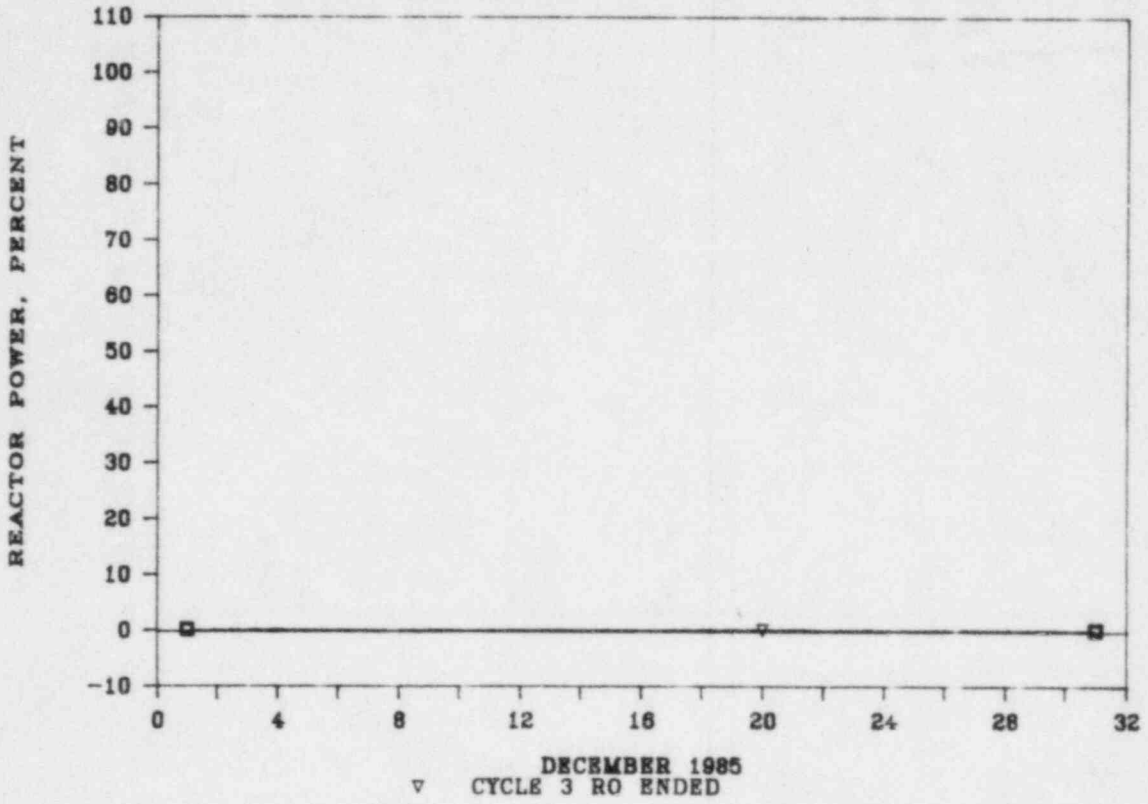
Month/Year DECEMBER 1985

Design Gross Electrical Rating 1183 MW

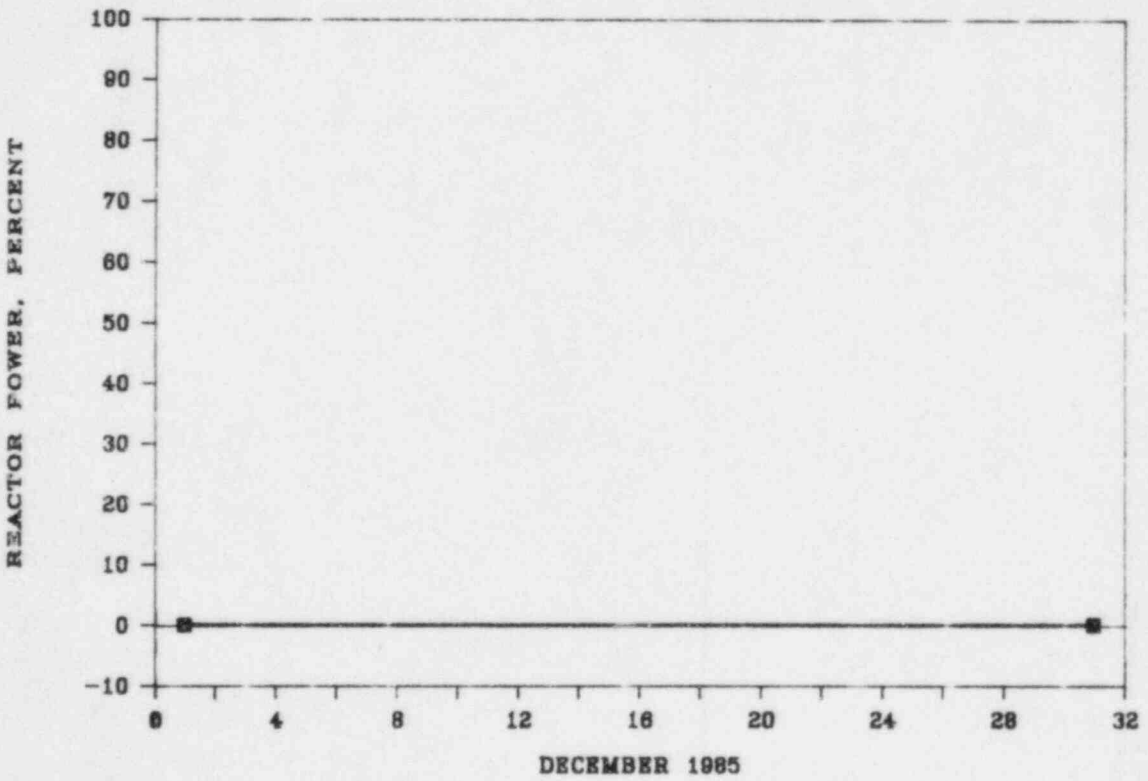
Period Hours 744

| 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 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | NUREG 0588 Outage Continues | N/A | Mode #5 | |
| 2 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 3 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 4 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 5 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 6 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 7 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 8 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 9 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 10 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 11 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 12 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 13 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 14 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 15 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 16 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 17 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 18 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 19 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 20 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 21 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 22 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 23 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 24 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 25 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 26 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 27 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 28 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 29 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 30 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| 31 | 00 | 00 | 00 | 00 | | | 24 | 00 | 24 | 00 | 24 | 00 | 24 | 00 | | | | | | | | |
| Total | 00 | 00 | 00 | 00 | | | 744 | 00 | 744 | 00 | 744 | 00 | 744 | 00 | | | | | | | | |

# SEQUOYAH ONE REACTOR HISTOGRAM




# SEQUOYAH TWO REACTOR HISTOGRAM



| DATE.... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MP.NO.. |
|---|---|---|---|---|---|
| 11-05-85 | 1-CRN-079-JN /YE1 | MANIPULATOR CRANE WOULD NOT MOVE | LR1 RESISTOR AND A500FP PRINTED CIRCUIT BOARD WAS DEFECTIVE | REPLACED LR1 RESISTOR AND A500FP PRINTED CIRCUIT BOARD | A546239 |
| 11-12-85 | 2-GENB-082-000 2A-A | 2A-A DIESEL GENERATOR TRIPPED ON DIFFERENTIAL RELAY #87 | CABLES WINDINGS AND BOLTS WERE DEFECTIVE | MEGGERED, BRIDGED AND HIPOTED 6.9KV CABLES AND RETORQUED BOLTS | A528112 |
| 11-15-85 | 2-MVOP-001-001 7 | RESET LIMIT SWITCH TO PREVENT BACKSEATING AND PREMATURE BYPASS SWITCH TRIP OUT | GREASE IN SWITCH COMPARTMENT, CONTACTS ON LIMITS WERE CORRODED AND TORQUE SWITCH WAS COVERED WITH OIL | REPLACED BAD TORQUE SWITCH AND ADJUSTED. REF: MR A547801 | A299905 |
| 11-20-85 | 2-FSV-067-0338 -B | CONTROL CIRCUIT WAS CONTINUALLY BLOWING FUSES | SOLENOID WAS BURNED UP | REPLACED SOLENOID AND CHECKED FOR PROPER OPERATION | A546023 |
| 11-21-85 | 1-FCV-090-0116 -B | VALVE WOULD NOT STAY IN OPEN POSITION | LIMIT SWITCH ACTUATOR ARM OUT OF AJUSTMENT | ADJUSTED LIMITS AND CHECKED FOR PROPER OPERATIONS | A536247 |
| 11-22-85 | 0-CHR-311-0156 ,0171 | CHILLER WAS NOT WORKING CAUSING TEMPERTURE TO RISE TO OVER 85 DEGREES RESULTING IN COMPUTER FAILURE | UNIT WAS OUT OF ALIGNMENT | RESTARTED UNIT WITH PROPER ALIGNMENT AND CHECKED FOR PROPER OPERATION | A594569 |
| 11-25-85 | 2-ZS-067-0354 | LIMIT SWITCH DID NOT ACTUATE PROPERLY WHEN VALVE CHANGED POSITIONS | LIMIT SWITCH WAS OUT OF ADJUSTMENT | ADJUSTED LIMIT SWITCH AND CHECKED FOR PROPER ACTUATION | A546246 |
| 11-26-85 | 1-FSV-043-0251 -A | CONDUIT COUPLING LEADING TO 1-FSV-63-71 WAS BROKEN | POSSIBLY HAD BEEN STEPPED ON BY PERSONNEL | REPLACED CONAX CONNECTOR, CONDUIT AND WIRING | A541841 |
| 11-27-85 | 1-HS-031-0475B | JUMPER FROM 1-HS-31-4758 | CUT WAS DUE TO CLOSING OF | REPLACED WIRE #1117V7 | A522157 |

| DATE.... | COMPONENT..... | FAILURE DESCRIPTION..... | CAUSE OF FAILURE..... | CORRECTIVE ACTION..... | MR.NO.. |
|---|---|---|---|---|---|
| | -A | TO TERMINAL BLOCK 1117V7 HAD BEEN CUT | DOOR ON 1-L-572C | FROM JB 572-C | |

9 records listed.

## INSTRUMENT MAINTENANCE

### Unit 1

An inadvertant containment vent isolation occurred on 12-7-85 as a result of power loss to radiation monitor 1-RM-90-112A (PRO-1-85-362). The power supply plug was verified to be connected to the correct plug mold. Recorder 1-RR-90-112 indicated that the monitor lost power for approximately ten minutes. It was believed that the monitor's power supply failed in service. However, the power supply was removed from service, placed under a load test, and was determined to be functioning properly. Further investigation revealed that the radiation analyzer (RP-30) connector pins could have momentarily opened the power circuit. The connector pins were cleaned and 1-RM-90-112A was returned to service.

The reactor coolant system narrow range RTD manifolds on loops 2,3, and 4 were found damaged during performance of SMI-0-68-28 to install new RTD's for qualified life replacement. MR's were initiated to allow repair by Mechanical Maintenance. Six of eight RTD's have already been replaced. The remaining two will be completed after the manifolds are repaired.

### Unit 2

During performance of a required soldering modification to 2-FT-68-66, RHR suction valve 2-FCV-74-2 was inadvertantly closed, isolating the suction to the RHR pumps (PRO-2-85-134). Investigation revealed a deficiency with SI-484 that caused the isolation. The instruction was revised under a temporary change to include additional steps for prevention of RHR isolation when working on the loop.

2-PT-68-323 was found out of tolerance during performance of refueling calibration, SI-94.1. PRO-2-85-133 was initiated, the transmitter was re-calibrated, and the loop was returned to service.

### Common

Contracted with Westinghouse to perform a re-analysis of Sequoyah's setpoint methodology report. This was necessary to consider maintenance and test equipment inaccuracies and new equipment installations to ensure safety margins are not compromised. Preliminary calculations from Westinghouse are expected to be submitted and reviewed before startup.

During performance of SI-620, auxiliary air compressor pressure switch 0-PS-32-62 was found out of tolerance. PRO-1-85-359 was initiated and the switch was recalibrated.

Continued support for the environmental qualification program. Received QMDS binders and began verification of essential maintenance requirements. Coordinated with OE to resolve binder discrepancies and equipment installation problems.

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A085196 | 2 | PT | 068 | 322 | 12/13/85 | 2-PT-068-322-,*NPRD* RECALIB XMTR BECAUSE OF TEST EQ OUT OF TOLERANCE | TEST EQUIPMENT USED TO CALIBRATE FOUND OUT OF TOLERANCE, CHECK CALIBRATION RECAL IF NECESSARY |
| A085197 | 2 | PM | 001 | 13 | 12/13/85 | 2-PM-001-13-, AIR LEAK | DEFECTIVE REGULATOR REPLACE REGULATOR |
| A085200 | 2 | LR | 003 | 98P001 | 12/11/85 | 2-LR-003-98P001-,PEN IS BROKEN REPAIR | BROKEN PEN REPLACE PEN |
| A122992 | 0 | | 090 | | 12/17/85 | 0--090--,COORD W/ELECT MOD & HAVE THE COMPONENTS ON THE ATTACHED LIST ENERGIZED AS REQ'D TO A MAX LOAD COND SO SMI 0 317 23 CAN BE PERFORMED | NONE ASSIST ELECTRICAL MODIFICATIONS IN TESTING |
| A230512 | 0 | RM | 090 | 122 | 12/12/85 | 0-RM-090-122-,MON BACKGROUND TOO HIGH CLEAR MON | PARTICULATE CONTAMINATION CLEAN OUT MONITOR |
| A298561 | 2 | RM | 090 | 271 | 12/20/85 | 2-RM-090-271-,FOUND OUT TOLERANCE ON SMI 0 90 1 WHEN DETECTOR PLACED IN 100 R FIELD. REPAIR PER VALIDATED GA MANUALS R244 | DEFECTIVE DETECTOR INSTALL NEW DETECTOR |
| A299299 | 1 | XIS | 068 | 388 | 12/03/85 | 1-XIS-068-388-,CUT OUT EXISTING ISOL AND WELD NEW ISOL IN PLACE | DEFECTIVE ISOLATOR INSTALL NEW HYDRALIC ISOLATOR |
| A300827 | 2 | PX | 003 | 170 | 12/23/85 | 2-PX-003-170-,PWR SUP IS READING APPROX 55 VDC SHOULD BE READING APPROX 35 VDC | DEFECTIVE DIODE IN POWER SUPPLY REPLACE DIODE VERIFY PROPER VOLTAGE OUTPUT & RETURN TO SERVICE MR A300827 SI-97 |
| A300828 | 2 | PX | 003 | 163 | 12/23/85 | 2-PX-003-163-,PWR SUP IS LOADING APPROX 55VDC SHOULD BE READING APPROX 35 VDC | DEFECTIVE DIODE IN POWER SUPPLY REPLACE DIODE VERIFY PROPER VOLTAGE OUTPUT AND RETURN TO SERVICE MR A300828 SI-97 |
| A300829 | 2 | PX | 003 | 147 | 12/23/85 | 2-PX-003-147-,PWR SUP IS READING APPROX 55 VDC SHOULD BE READING APPROX 35 VDC | DEFECTIVE DIODE IN POWER SUPPLY REPLACE DIODE VERIFY PROPER VOLTAGE OUTPUT AND RETURN TO SERVICE MR A300829 SI-97 |
| A300835 | 1 | LI | 003 | 175 | 12/23/85 | 1-LI-003-175-,*NPRD* IND POINTER BROKEN NEEDED TO COMPLETE SI 207 | ABNORMAL SHOCK ON THE METER REPAIR METER POINTER CHECK CALIBRATION & RETURN TO SERVICE |
| A300836 | 0 | RE | 090 | 122 | 12/23/85 | 0-RE-090-122-,THE MONITOR BACKGROUND IS APPROX 100,000 CPM & WILL NOT RENSE DOWN EVEN WITH THE ACID FLUSH DECON AS NECESSARY FOR LIQUID RELEASE NO TAG HUNG | PARTICULATE CONTAMINATION CLEAN SAMPLE CHAMBER |
| A300839 | 2 | XI | 092 | 5001A | 12/27/85 | 2-XI-092-5001A-,*I* SR DISPL RAPID INCR FROM APPROX 12 APPROX 40 CPS WHILE DIGITAL INSTR INDICATED APPROX ORIGINAL READING OF 11 CPS | NONE COULD BE FOUND PERFORM SI-278 NO PROBLEM FOUND RETURNED TO SERVICE |
| A301070 | 2 | FI | 001 | 3A | 12/17/85 | 2-FI-001-3A-,NEEDS TO BE CALIB. READING .5X106 PPH WHILE OTHER CHANNEL(S) OPPH | FLEX HOSE FEEDING TRANSMITTER LEAKING, TRANSMITTER OUT OF CALIBRATION. REPAIR FLEX HOSE LEAK AND RECALIBRATE TRANSMITTER MR A301070,A548861 |

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A301665 | 1 | TE | 068 | 2A | 12/26/85 | 1-TE-068-2A-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE RTD WITH EQUIVLENT TYPE. |
| A301666 | 1 | TE | 068 | 2B | 12/26/85 | 1-TE-068-2B-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE. REPLACE RTD WITH EQUIVALENT TYPE |
| A301667 | 1 | TE | 068 | 14A | 12/26/85 | 1-TE-068-14A-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE RTD WITH EQUIVALENT TYPE. |
| A301668 | 1 | TE | 068 | 14B | 12/26/85 | 1-TE-068-14B-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE RTD WITH EQUIVALENT TYPE. |
| A523201 | 0 | RR | 090 | 205 | 12/17/85 | 0-RR-090-205-,REPORTER PEN SLIPS SLIGHTLY FROM DRIVE CORD HOLDING SCREW MAY BE WORKING ITSELF OUT | HOLDING SCREW WORKING ITSELF LOOSE TIGHTENED SCREW |
| A523203 | 0 | RM | 090 | 133A | 12/11/85 | 0-RM-090-133A-,*NPRDS* THE RM SHOWS A HIGH RAD COND THAT NEEDS TO BE FERIVIED CHECK RAD MONITOR FOR PROPER OPERATION | BACK GROUND TOO HIGH CHANGED SETPOINT PER SI-204 |
| A523204 | 0 | RM | 090 | 212 | 12/18/85 | 0-RM-090-212-,=INST MALFUNCTION WILL NOT CLEAR | CLOGGED SENSING LINE TO ROTOMETER CLEAN OUT SENSING LINE |
| A523205 | 0 | RM | 090 | 140A | 12/11/85 | 0-RM-090-140A-,RAD MONITOR SPIKES HIGH AND LOW NO ACTIVITY FOUND IN WATER ALARM CONTINOUSLY COMES IN ON 0-M-12 | BACKGROUND TOO HIGH FOR SETPOINT CHANGE SETPOINT PER SI 204 |
| A523207 | 2 | PCV | 001 | 12 | 12/13/85 | 2-PCV-001-12-,*NPRDS* AIR LEAK ON CONTROLLER | NO FAILURE NORMAL POISTIONER AIR BLEED NONE |
| A523578 | 2 | PM | 001 | 31 | 12/17/85 | 2-PM-001-31-,AIR FLTR REGULATOR FOR 2 PM 1 31 AND 2 HCV 1 31 HAS AIR BLOWING FROM SMALL HOLES | DEFECTIVE REGULATOR INSTALL NEW REGULATOR |
| A523579 | 2 | LCV | 003 | 171 | 12/13/85 | 2-LCV-003-171-,*NPRD* LCV OPERATES PROPERLY IN AUTO BUT WON'T RESPOND IN MANUAL | THE POSITIVE LEAD FEEDING THE POSITIONER WAS G ROUNDED IN THE CONDULET. REPAIR GROUNDED WIRE AND FUCTIONALLY TEST MR523579 |
| A523715 | 0 | TS | 032 | 64 | 12/13/85 | 0-TS-032-64-,*I* CHECK CALIB OF TEMP SW AUX AIR COMPR AA | SWITCH OUT OF CALIBTATION RECALIBRATE SWITCH |
| A529379 | 2 | RM | 090 | 292 | 12/18/85 | 2-RM-090-292-,BROKEN CABLE TO DETECTOR FOUND ON SI 685.2 | BROKEN CABLE TO DETECTOR REPAIR CABLE |
| A529607 | 2 | RI | 090 | 278 | 12/13/85 | 2-RI-090-278-,INDICATOR IS DEAD. REPAIR FOUND DURING PERFORMANCE OF SI 685.2 | LOOSE WIRE & STICKING INDICATOR TIG.ITEN WIRE & REPAIR INDICATOR |
| A529608 | 2 | RI | 090 | 275 | 12/18/85 | 2-RI-090-275-,INDICATOR WILL NOT CALIB FOUND DURING PERFORMANCE OF SI 685.2 | DEFECTIVE INDICATOR INSTALL NEW INDICATOR |
| A529609 | 2 | RI | 090 | 276 | 12/18/85 | 2-RI-090-276-,INDICATOR WILL NOT CALIB | DEFECTIVE INDICATOR INSTALL NEW |

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| | | | | | | FOUND DURING PERFORMANCE OF SI 685.2 | INDICATOR |
| A534188 | 2 | LCV | 003 | 156A | 12/13/85 | 2-LCV-003-156A-,"NPRD" LCV 156A HAS AIR LEAK | DEFECTIVE REGULATOR AND LOOSE BONNET TO YOKE CONNECTING BOLTS REPLACE REGULATOR AND TIGHTEN CONNECTING BOLTS MAKE STROKE AND LIFT-OFF ADJUSTMENTS MR A534188 |
| A536089 | 1 | PCV | 032 | | 12/13/85 | 1-PCV-032--,STOP SUP AIR REG AIR LEAK | BLOWN GASKET BETWEEN THE GAUGE MANIFOLD AND PO SITIONERREPLACE DEFECTIOVE GASKET |
| A539502 | 2 | RE | 090 | 273 | 12/20/85 | 2-RE-090-273-,REMOVE THE RAD ELEMENT FROM 2 RM 90 273 | NONE REINSTALL DETECTOR |
| A539504 | 2 | RE | 090 | 274 | 12/20/85 | 2-RE-090-274-,REMOVE THE RAD ELEMENT FROM 2 RM 90 274 | NONE REINSTALL WHEN TEST IS COMPLETE |
| A539521 | 2 | LT | 003 | 38 | 12/04/85 | 2-LT-003-38-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | HARDWIRE PIN CONNECTORS TO MAINTAIN QUALIFICATIONS HARDWIRE CONNECTORS |
| A539525 | 2 | LT | 003 | 51 | 12/04/85 | 2-LT-003-51-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRING TO MAINTAIN QUALIFICATIONS HARDWIRE CONNECTOR |
| A539527 | 2 | LT | 003 | 39 | 12/04/85 | 2-LT-003-39-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTORS NEED HARDWIRING TO MAINTAIN QUALIFICATIONS |
| A539529 | 2 | LT | 003 | 106 | 12/04/85 | 2-LT-003-106-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRING TO MAINTAIN QUALIFICATIONS HARDWIRE CONNECTOR |
| A539530 | 2 | LT | 003 | 98 | 12/04/85 | 2-LT-003-98-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRING HARDWIRE CONNECTOR |
| A539531 | 2 | LT | 003 | 97 | 12/04/85 | 2-LT-003-97-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNNECTOR NEEDS HARDWIRING TO MAINTAIN QUALIFICATIONS HARDWIRE CONNECTOR |
| A539532 | 2 | LT | 003 | 52 | 12/04/85 | 2-LT-003-52-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRING HARDWIRE CONNECTOR |
| A539533 | 2 | LT | 063 | 179 | 12/05/85 | 2-LT-063-179-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR | PIN CONNECTER NEEDS HARDWIRING TO MAINTAIN QUALIFICATION HARDWIRE CONNECTOR SMI 2-317-23 |
| A539534 | 2 | LT | 063 | 177 | 12/06/85 | 2-LT-063-177-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR | PIN CONNECTOR NEEDS HARDWIRING TO MAINTAIN QUALIFICATIONS HARD WIRE CONNECTOR |
| A539535 | 2 | LT | 003 | 111 | 12/04/85 | 2-LT-003-111-,HARD WIRE IN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PINCONNECTOR HANDWIRING FOR QUALIFICATIONS HARDWIRE CONNECTOR |

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A539536 | 2 | LT | 003 | 107 | 12/04/85 | 2-LT-003-107-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRING HARDWIRE PIN CONNECTOR |
| A539537 | 2 | PT | 068 | 323 | 12/06/85 | 2-PT-068-323-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRE TO MAINTAIN QUALIFICATIONS. HARDWIRE CONNECTOR |
| A539538 | 2 | PT | 068 | 322 | 12/06/85 | 2-PT-068-322-,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HARDWIRING TO MAINTAIN QUALIFICATIONS HARDWIRE CONNECTOR. |
| A539539 | 2 | PT | 068 | 69 | 12/10/85 | 2-PT-068-69-,HARDWIRE CONNECTOR FOR BARTON LOT 2 XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | CONNECTOR NEEDS HANDRINGS TO MAINTAIN QUALIFICATIONS HARDWIRE PIN CONNECTOR |
| A539544 | 2 | PT | 068 | 340 | 12/06/85 | 2-PT-068-340-,HARD WIRE PIN CONNECTOR FOR LOT 2 BARTON XMTR TO MAINTAIN QUALIFICATIONS PER SMI 2 317 23 | PIN CONNECTOR NEEDS HANDWIRING TO MAINTAIN QUALIFICATIONS HARDWIRE CONNECTOR. |
| A545926 | 1 | RM | 090 | 112B | 12/13/85 | 1-RM-090-112B-TSC,TSC READINGS WERE FND OUT OF CAL PER SI 83 | TSC OUT OF CALIBRATION RECALIBRATE TSC |
| A545927 | 1 | RM | 090 | 112A | 12/13/85 | 1-RM-090-112A-TSC,TSC READINGS ARE OUT OF TOLERANCE PER SI 83 | TSC OUT OF CALIBRATION RECALIBRATE TSC |
| A546509 | 1 | LI | 003 | 172 | 12/16/85 | 1-LI-003-172-,*NPRD* LVL IND POINTER IS OFF BROKEN NEEDED TO COMPLETE SI 207 | POINTER BROKEN OFF, REPAIR INDICATOR |
| A546561 | 2 | PS | 068 | 68B/E | 12/09/85 | 2-PS-068-68B/E-,INVESTIGATE PROB W/2 PS 68 68B/E AND 2 FCV 74 2 RHR VLV WHICH WENT CLOSED | COULD NOT BE DETERMINED. RECALIBRATE PRESSURE SWITCH MR A546561 |
| A547678 | 0 | RM | 090 | 212 | 12/19/85 | 0-RM-090-212-,PUMP OR MOTOR BEARING IS LOUD MAY BE GOING BAD | BAD BEARINGS REPLACE BEARINGS |
| A547695 | 2 | HTCK | 234 | 123 | 12/19/85 | 2-HTCK-234-123-,THERMOSTAT CONTACTS ARE VIBRATING WHEN MADE | DEFECTIVE TEMPERATURE CONTROLLER REPLACE TEMPERATURE CONTROLLER |
| A547696 | 2 | HTCK | 234 | 69 | 12/19/85 | 2-HTCK-234-69-,NO GRN OR RED IND ON THERMOSTAT | BAD THERMOSTAT REPLACE THERMOSTAT |
| A548051 | 2 | LI | 070 | 63A | 12/19/85 | 2-LI-070-63A-,CHECK CAL ON LT SUSPECT FAULTY LVL IND | WATER IN DRY LEG OF TRANSMITTER DRAIN WATER FROM DRY LEG MR A548051 |
| A548052 | 2 | LI | 070 | 99A | 12/19/85 | 2-LI-070-99A-,CHECK OUT ON LT SUSPECT FAULTY LVL IND | WATER IN DRY LEG OF TRANSMITTER DRAIN WATER FROM DRY LEG MR A548052 |
| A548798 | 2 | RE | 090 | 271 | 12/20/85 | 2-RE-090-271-,REMOVE THE RADIATION ELEMENT FROM 2-RM-90-271 | NONE REINSTALL DETECTOR |
| A548800 | 2 | RE | 090 | 272 | 12/20/85 | 2-RE-090-272-,REMOVE THE RAD ELEMENT FROM 2 RM 90 277 | NONE REINSTALL DETECTOR |
| A548858 | 2 | RM | 090 | 112C | 12/13/85 | 2-RM-090-112C-TSC,TSC COMPUTER FND OUT OF CAL ON SI 205.2 | TSC OUT OF CALIBRATION RECALIBRATE TSC |
| A548859 | 2 | RM | 090 | 100 | 12/11/85 | 2-RM-090-100-,REPAIR FAILTER FAIL ALARM | DEFECTIVE SLOW MOTOR REPLACE SLOW MOTOR |

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A548860 | 1 | RE | 090 | 119 | 12/06/85 | 1-RE-090-119-,RM FLOW SIGHT GLASS NEEDS TO BE CLEANED OR REPLACED | DIRTY GLASS CLEAN SIGHT GLASS |
| A548861 | 2 | FS | 001 | 3 | 12/17/85 | 2-FS-001-3-A,*NPRD* HI STM FLOW ALARM IN AND BYSTABLE LIGHT IS LIT | FLOW TRANSMITTER OUT OF CALINBRATION RECALIBRATE FLOW TRANSMITTER MR A548661 |
| A548872 | 2 | RM | 090 | 121 | 12/04/85 | 2-RM-090-121-,LOW TRIP DOES NOT WORK FND DURING PERFORM OF SI 204.2 TAG ON RP 30 | DEFECTIVE PUSHBUTTON SWITCH REPLACE PUSHBUTTON SWITCH |
| A548877 | 1 | PDT | 065 | 80 | 12/09/85 | 1-PDT-065-80-,*I* INSTALL ET'S INCLINE MANOMETER 0-10" ACROSS SAID PT FOR SI-264 | NONE INSTALL TEST EQUIPMENT AND REMOVE WHEN NO LONGER NEEDED |
| A548880 | 1 | RM | 090 | 106 | 12/09/85 | 1-RM-090-106-,MCR INSTR MALFUNC ALARM WON'T CLEAR DUE TO LOW IODINE FLOW | DIRTY ROTOMETER CAUSING LOW FLOW CLEAN OUT ROTOMETER |
| A548882 | 0 | PDIS | 026 | 7A | 12/11/85 | 0-PDIS-026-7A-,DELTA DID NOT DROP DOWN AFTER APPROX 15 MIN OF BACKWASHING CALIB DELTA P GAUGE | NO PROBLEM FOUND , NONE |
| A548883 | 0 | TR | 082 | 5036/3 | 12/13/85 | 0-TR-082-5036/3-,RECORDER STAMPING ON ONE POINT BUT STAYING RIGHT | CONTACTS ON RECORDER DIRTY, CLEAN CONTACTS |
| A548887 | 1 | RM | 090 | 112A | 12/26/85 | 1-RM-090-112A-,1 RM 90 112A FAILED MOMENTARILY ON 12/7/85 CAUSING A CVI PRO 1 85 362 | LOOSE SCREWS & DIRTY PINS ON RP-30 TIGHTEN SCREWS & CLEAN PINS PRO 1-85-362 |
| A548891 | 1 | PT | 001 | 20A | 12/16/85 | 1-PT-001-20A-,*NPRD* INSTR WAS CALIB W/M&TE E00244 WHICH WAS FND OUT OF TOLERANCE AT THE LAB. VERIFY OR RECALIB INSTR. GIVE RESULTS TO ORIG | TRANSMITTER WAS CALIBRATED WITH TEST EQUIPMENT THAT WAS OUT OF CALIBRATION. RECALIBRATE PRESSURE TRANSMITTER MR A 548891 |
| A548893 | 1 | RM | 090 | 112 | 12/26/85 | 1-RM-090-112-,AUDIBLE ALARM DOES NOT WORK | BROKEN WIRE ON ALARM RESOLDER BROKEN WIRE |
| A548910 | 0 | PS | 032 | 62 | 12/07/85 | 0-PS-032-62-,RECALIB OPS 32 62 | OUT OF CALIBRATION RECALIBRATE SWITCH |
| A550516 | 1 | LIC | 003 | 174 | 12/10/85 | 1-LIC-003-174-,\SERVO MOTOR APPEARS TO BE BAD UNABLE TO DRIVE PROCESS INDILATOR [illegible] | DEFECTIVE POTENTIOMETER AND SERVO MOTOR REPLACE POTENTIOMETER AND SERVO MOTOR. [illegible] A 550516 |
| A550517 | 1 | LIC | 003 | 156 | 12/18/85 | 1-LIC-003-156-,SERVO MOTOR APPEARS TO BE BAD PROCESS INDICATOR HANGS OCCASIONALLY | DEFECTIVE RIBBON CABLE CONNECTOR INSTALL NEW RIBBON CABLE CONNECTOR CALIBRATE CONTROLLER & RETURN TO SERVICE MR A550517 PM 1334-003 |
| A550518 | 2 | LS | 070 | 210A&B | 12/19/85 | 2-LS-070-210A&B-,CHECK LS FOR PROPER OPER | WATER IN DRY REFERENCE LEG OF SWITCH DRAIN WATER FROM SWITCH |
| A550519 | 1 | LS | 070 | 209A/B | 12/19/85 | 1-LS-070-209A/B-,CHECK LS FOR PROPER OPER | WATER IN DRY REFERENCE LEG DRAIN WATER FROM DRY REFERENCE LEG |
| A550664 | 2 | | 099 | | 12/16/85 | 2--099---,COMPUTER NOT RECEIVING SIGNAL CHANGE ON: V03200; V0321D; V0322D; Y03200; Y03210; Y0 | DEFECTIVE INPUT CONTACT BUFFER CARD IN UNIT 2 P250 COMPUTER REPLACE DEFECTIVE CARD |

| MR.COMP | U | FUNC | SYS | ADDRESS. | COMP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A560058 | 2 | RM | 090 | 272 | 12/20/85 | 2-RM-090-272-,TROUBLE SHOOT AND ADJUST/REPAIR AS NEEDED TO CLEAR RAD MON OF NI RAD ALARM 3220 | DEFECTIVE DETECTOR REPLACE DETECTOR |
| A562131 | 2 | FIT | 062 | 10 | 12/26/85 | 2-FIT-062-10-,REMOVE TRANSMITTERS FROM PIPE FOR REPAIRING OF FLANGES ON MR A564777 | NONE REINSTALL TRANSMITTER |

| MR2.... | U | FUNC | SYS | ADDRESS. | LOOP DATE.... | DESCRIPTION..... | CORRECTIVE ACTION..... |
|---|---|---|---|---|---|---|---|
| A300820 | 2 | PNL | 500 | 381 | 12/06/85 | 2-PNL-500-381-,CHANGE COVERS & ID TAGS ON 2 FM 3 142 A & 2 FM 46 57 | PERSONNEL ERROR. INSTALL COVERS & TAGS ON PROPER DEVICES |
| A301674 | 1 | TE | 068 | 44A | 12/31/85 | 1-TE-068-44A-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE RTD WITH EQUIVALENT TYPE. |
| A301676 | 1 | TE | 068 | 44B | 12/31/85 | 1-TE-068-44B-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE WITH EQUIVALENT TYPE. |
| A301677 | 1 | TE | 068 | 56A | 12/31/85 | 1-TE-068-56A-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE WITH EQUIVALENT TYPE RTD. |
| A301678 | 1 | TE | 068 | 56B | 12/31/85 | 1-TE-068-56B-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE. REPLACE WITH EQUIPMENTVALENT TYPE RTD. |
| A301681 | 1 | TE | 068 | 79A | 12/31/85 | 1-TE-068-79A-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE OF DEVICE REPLACE WITH EQUIVALENTRTD. |
| A301682 | 1 | TE | 068 | 79B | 12/31/85 | 1-TE-068-79B-,REPLACE EXISTING NARROW RANGE RTD DUE TO THE EXPIRATION OF THE QUALIFIED LIFE | END OF QUALIFIED LIFE. REPLACE WITH EQUIVALENT TYPE RTD |
| A523577 | 1 | PT | 068 | 337C | 12/30/85 | 1-PT-068-337C-,#NPRD# ZERO SHIFTS ON XMTR WHEN TEST PRESS IS DROPPED BELOW 1700 PSI | TRANSMITTER OUT OF CALIBRATION PERFORM STATIC ALIGNMENT & FLEXURE ADJUST CALIBRATE PER SI-92 |
| A548895 | 2 | LT | 003 | 97 | 12/31/85 | 2-LT-003-97-,#NPRD# INST FAILED HIGH | TRANSMITTER OUT OF CALIBRATION RECALIBRATE LEVEL TRANSMITTER MR A548895 |
| A559963 | 1 | XS | 068 | 66 | 12/02/85 | 1-XS-068-66-,RETURN INJ SW XS 68 66 PS/403 IN 1 R 5 TO NORMAL WHILE RX VESSEL IS BEING FILLED & VENTED.LOOP IS NOT BEING DECLARED OPERABLE.THIS IS ONLY TO ALLOW OP | NONE.RETURN SW TO NORMAL WHILE VESSEL IS BEING FILLED AND VENTED |

90 records listed.

MONTHLY REPORT
DEC 1985
MECH. MAINT.
UNIT 0

1. WORK ON AUX. BOILER COMPLETED AND BACK IN SERVICE
2. REPLACED SEAL AND COMPLETED ALIGNMENT ON CDWE VAPOR BODY RECIRCULATION PUMP.
3. UNSTOPPED LINES ON CDWE
4. COMPLETED MONTHLY AND QUARTERLY SI ON 2AA D/G.
5. D STATION AIR COMPRESSOR COMPLETE.
6. INSTALLED UNLOADER VALVE ON C AIR COMPRESSOR
7. PERFORMED P.M. ON AUX. BLDG. CRANE.
8. HPFP STRAINERS THAT FEED RX BLDG COMPLETE
9. COMPLETED MONTHLY AND QUARTERLY SI ON 2BB D/G
10. REKEYING HIGH RAD SECURITY DOORS
11. COMPLETED MONTHLY INSPECTION ON 1AA D/G
12. CLOSED UP A CCS HTX

MONTHLY REPORT
DEC. 1985
MECH. MAINT.
UNIT 1.

1. INSTALLED NEW SOLENOID ON 1-FSV-063-166
2. COMPLETED SI-239 ON DIVIDER BARRIER SEAL
3. COMPLETED THRUST ASSEMBLY ON 1A RFPT
4. PRESSURIZED CONTAINMENT
5. UNIT 1. BLDG. HEATING COILS BACK IN SERVICE
6. REPAIRED OIL LEAK ON A RFPT
7. COMPLETED INSPECTION ON 2B RFP
8. REPACKED 1-FCV-001-4
9. COMPLETED INSPECTION OF 1-FCV-030-134, REASSEMBLED
10. COMPLETED NDE ON BONNET, STEM AND BODY OF 1-FCV-003-100
11. INSPECTION COMPLETE ON 1-LCV-106A&106B, REASSEMBLED
12. COMPLETED STEAM GENERATOR CLEANUP

MONTHLY REPORT
DEC 1985
MECH. MAINT.
UNIT 2

1. 2B RFP X-RAY GOOD ON DISCHARGE PIPE
2. 6 OF 7 BUILDING HEATING COILS BACK IN SERVICE
3. LUBE OIL PUMP COUPLING INSPECTION ON 2B CCP COMPLETE
4. WATERBOX WORK COMPLETE AND CLOSED UP
5. COMPLETED STRESS RELIEF ON 2B RFP
6. INSPECTION COMPLETE ON 2A RFP
7. COMPLETED INSPECTION OF 2-FCV-043-22, REASSEMBLED
8. COMPLETED GENERATOR CRAWL THRU
9. COMPLETED UNIT 2 NOZZLE COVER WORK
10. COMPLETED INSPECTION ON 2-LCV-106A&106B, REASSEMBLED
11. ALIGNMENT COMPLETE ON 2A&2B RFP,S
12. REPAIRED AND INSTALLED 2B SURGE AIR FAN MOTOR BASE
13. COMPLETED NDE ON 2-FCV-003-33

SUMMARY OF WORK COMPLETED

MODIFICATIONS

DECEMBER 1985

NUREG 0588

ECN 6231 - Remove Interferences

A-train ERCW piping has been rerouted. Work has begun on B-train. Supports will be installed later.

APPENDIX R

ECNs 5265, 5435, and 6343 - Fire Doors

Door C-50 tested satisfactorily; however, it still lacks final electrical hookup and testing. When door C-50 is comple e and operable, work will begin on door C-49. Additional work lans for ECN 6343 were prepared and placed in the approval cycle.

ECN 6235 - Reroute Various Cables

Work is on hold for the nine workplans previously in work. Workplan writing is on hold.

ECN 6305 - Elevation 714 Fire Barrier

Framing is complete, and the installation of the fireboard and door is in progress.

ECN 6311 - Operator Extension on PORV

Work is complete except for postmodification testing scheduled during startup.

ECN 6315 - Replace Fuses

Fuse installation was begun.

ECN 6319 - Fire Protection Piping

Installation of piping and hangers continues.

OTHER ITEMS

ECN 5009 - ERCW Piping Changeout From Carbon Steel to Stainless Steel

The installation of A-train piping to the unit 1 upper compartment cooler is complete. The installation of B-train is complete with the exception of the two additional check valves which is in progress. The additional hanger for the auxiliary air compressor was installed.

OTHER ITEMS (Continued)

ECNs 5034, 5713, 5743, and 6064 - Various Platforms in Lower Containment

The application of protective coating continues. The installation of platforms between Nos. 2 and 3 steam generators continues. The safety gates for the upper platforms have been installed.

ECN 5200 - Postaccident Sampling Facility

No work was performed this period.

ECN 5202 - Fifth Diesel Generator

The backfilling was completed and tested. Missile barrier concrete will be poured at the first opportunity. The workplans will be prepared for electrical interface work.

ECN 5237 - Laundry Facility

No work was performed this period.

ECN 5252 - Label Node Voltages in Manholes

No progress on this job this period; four manholes remain.

ECN 5347 - Replace Doors C-49 and C-50 (Electrical Portion)

This work is on hold until door C-50 passes the leak test.

ECN 5373 - Condensate Demineralizer Air Compressor

The new design was received, and installation was begun.

ECN 5620 - Add Instrumentation for Auxiliary Feedwater Pump

Work is on hold.

ECN 5645 - Replacement of Flow-Control Valve 2-329

The installation of the unit 2 valve is almost complete. The vendor representative will not be here until January to modify both valves.

ECN 5657 - Installation of MSR Drain Valves

The installation of the unit 2 valve assemblies is well underway.

OTHER ITEMS (Continued)

ECN 5795 - Field Services Building

Fire detection system work is on hold for materials.

ECN 5914 - Improve Reliability of Steam Dump

Conduit is complete; valve remains to be wired in.

ECNs 5938 and 6506 - Feedwater Heater Replacement

All mechanical work was completed. Installation work continues.

ECN 6057 - Cable Tray Covers

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

ECN 6147 - Airlock Packing Nut

The unit 1 airlocks were tested with satisfactory results. The antirotation devices were installed on unit 2, thus completing this modification.

ECN 6152 - SPDS

All consoles have been installed.

ECN 6196 - Pressurizer Hangers and Valves

Unit 1 support work was completed. Final installation of the mirror insulation remains. Installation of the last support on unit 2 was started.

ECN 6204 - Electrical Penetration Overcurrent Protection

Fuse replacement and fuse block installation are complete. We are awaiting a technical specification change to place the circuits in operation.

ECNs 6251 and 6532 - Waste Disposal Hangers

This work was completed.

ECN 6259 - Moisture Separator Reheater Tube Bundle Replacement

Reinstallation of the doghouses continues. The repair of inadequate SECO welds continues. Reinsulating work is in progress.

ECN 6263 - Feedwater Hangers Lower Containment

This work is complete.

OTHER ITEMS (Continued)

ECN 6352 - Fire Protection Isolation Valves

This work is complete.

ECNs 6402 and 6439 - Pressurizer Instrumentation Relocation

The unit 1 work was completed. The unit 2 workplan was written and approved, and work was started. The core drills have been completed, and piping work is in progress.

ECN 6417 - Install Alternate Seal Water for Pumps, CDWE

Electrical drawings remain to be issued.

ECN 6491 - ERCW Supports

Eighteen of the first twenty supports are complete. The final two are awaiting approval of the FCR. The workplan for the final 21 supports was written and approved, and the work was started.

ECN 6494 - ERCW Pipe Replacement at CCW Heat Exchangers

The degraded valve body was replaced with a new body. The old body will be refurbished. This completes this work.

ECN 6495 - Modification of Pressurizer Pots

This work was completed.

Dry Active Waste Building (DCR 1898)

Work began on dismantling the old carpenter shop and cleaning up the site to begin construction. The workplan is in the approval cycle. Concrete foundation work will be done as weather permits. The transfer of structural steel for the building from Yellow Creek Nuclear Plant has been completed.

Preliminary indications are that several additional work items may be forthcoming that will be required to be completed before startup. Preliminary work has begun on these items as follows:

ECN 5667 - Double Isolation Valves for Flow Orifices (Unit 2)
- Removal of EGTS Backdraft Dampers

ECN 6548 - Additional Support for Incore Drive Cart

ECN 6552 - 0588 Solenoids
- Replacement of Degraded Secondary Side Piping

Date: 1/2/86

| SCR No. | Description | Memo | ECN | Issued | Drawings | Engineer | Workplan No. | Estimated Date of Completion U-1 | Estimated Date of Completion U-2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| EQP 8501 | Disconnect 1- & 2-HS-62-61 | 9/18 | 6524 | Yes | 11/29-30 | Peters | 11901 | | | Workplan in approval cycle. |
| EQP 8502 | Replace penetrations 23, 48 | 9/13 | 6490 | Yes | Yes | Peters | 11801, 11802, 11810, 11811 | 1/3 | C | Final laydown and merger in progress. Assembling QIR for closure. |
| EQP 8503 | Relocate RE-90-273, -274 | 9/25 | 6500 | Yes | Yes | Peters | 11810, 11811 | C | N/A | Preparing QIR for closure. |
| EQP 8504 | Splice methods not correct | 10/2 | N/A | N/A | N/A | Stockton | 80 MRs | C | C | Preparing QIR for closure. |
| EQP 8505 | Drawing | 10/11 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| EQP 8506 | Seal cntmt isolation valve | 10/17 | 6514 | Yes | Yes | Kimsey | 11880 | 1/5 | 1/5 | Workplan in field. Hanger Design is impeding installation. |
| EQP 8507 | Rewire MOV | 10/29 | N/A | N/A | N/A | Rutledge | 11866, 11853 | 1/5 | 12/31 | On U-2, 127 rewired; 126 functioned; 90 MOVATS. On U-1, 72 rewired; 10 functioned; ___ MOVATS. |
| EQP 8508 | JB weepholes (press) | 10/17 | 6523 | | 12/12 | Alas | 11898 | C | C | Preparing QIR for closure. |
| EQP 8509R1 | Conduit seals | 11/6 | 6529 | 11/29 | 12/16 | Kimsey | 11903, 11904 | | | Writing workplans. |
| EQP 8510 | Disconnect local hand-switches | 11/12 | 6527 | | 12/8 | Peters | 11901 | 1/20 | 1/13 | Workplan in work. |
| EQP 8511 | Submerged JB inside cntmt | 11/13 | 6549 | 12/5 | 12/18 | Peters | 11901 | | 1/5 | Workplan in work. |
| EQP 8512R2 | Rewire JB | N/A | N/A | N/A | N/A | Amburn | 11855, 11856 | 1/20 | 1/13 | On U-2, 71 of 83 rewired. On U-1, 56 of 70 rewired. |
| EQP 8513 | Weep holes (moisture) | 11/14 | 6547 | 11/29 | 12/5 | Alas | 11898 | C | C | Preparing QIR for closure. |
| EQP 8513R2 | Weep holes (moisture) | | 6565 | 12/18 | 1/2 | Alas | | 1/10 | 1/10 | |
| EQP 8514 | Motor insulation 74-1, -2 | 11/14 | 6540 | | 12/3 | Branham | 11906 | N/A | 1/8 | Workplan in field. Need PMT requirements clarified. Paperwork Holdup on release of motors from warehouse. |

| SCR No. | Description | Memo | ECN | Issued | Drawings | Engineer | Workplan No. | Estimated Date of Completion U-1 | Estimated Date of Completion U-2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| EQP 8515 | Replace 2-PDT-30-43 | 11/15 | 6554 | 12/6 | 12/11 | Legg | 11912 | 1/12 | 1/12 | Workplan in field. |
| EQP 8516 | Replace 2-LT-3-174 | 11/15 | 12/29 | | | Inst. Maint. | | | | |
| EQP 8517 | ABGTS humidity control | | | | 1/7 | | | 1/20 | 1/20 | |
| EQP 8518 | Submerged cables | 11/15 | 6533 | 11/27 | 12/8 | Various/6 | Various | 2/8 | 1/23 | On schedule. |
| EQP 8519 | Tee drains | 11/22 | N/A | N/A | N/A | Elect. Maint. | | C | C | El. Maint turned in OIR. |
| EQP 8520 | Expired cables | 11/22 | 6553 | 12/5 | 12/12 | Gonzalez | 11902 | 1/20 | 1/13 | Workplan in field 12/30/85. |
| EQP 8521 | Delete TB and rework splices | 11/22 | 6550 | 12/5 | 12/14 | Stockton | 11914, 11915 | 1/20 | 1/13 | Workplan in approval cycle. |
| EQP 8522 | Rewire local panels | 11/26 | | | | Stockton | 11914, 11915 | 1/20 | 1/13 | Workplan in approval cycle. |
| EQP 8523 | Missing bolts and washers and misplaced brackets | N/A | N/A (MR) | N/A | N/A | Stockton | 11914, 11915 | 1/20 | 1/6 | Workplan in approval cycle. |
| EQP 8524 | Change setpoints | 11/26 | 6551 | 12/6 | 12/17 | Inst. Maint. | 11916 | Unkn. | Unkn. | Workplan in approval cycle. |
| EQP 8525 | Reterminate hydrogen recombiner | N/A | N/A (MR) | N/A | N/A | Elect. Maint. | | 1/6 | 1/6 | |
| EQP 8526 | Replace FSVs, U-1 1, U-2 11 | 11/26 | 6552 | 12/5 | 12/14 | Mech. Mods. | | | | Mech. Mods. has workplan to resolve comments. |

| SCR No. | Description | Memo | ECN | Issued | Drawings | Engineer | Workplan No. | Estimated Date of Completion U-1 | Estimated Date of Completion U-2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| EQP 8527 | Coat TB, U-1 3, U-2 8 | N/A | N/A (MR) | N/A | N/A | Stockton | 11914, 11915 | 1/5 | 1/5 | Workplan in approval cycle. |
| EQP 8528 | Solder strain gauge Barton transmitters | 11/26 | IMI | | | Inst. Maint. | | Unkn. | Unkn. | |
| EQP 8529 | PDT-30-42, -43 capacitor | 11/26 | 6554 | 12/6 | 12/11 | Legg | 11912 | 1/12 | 1/12 | Workplan in field. |
| EQP 8530 | Gasket, Namco L/S | N/A | N/A (MR) | N/A | N/A | Elect. Maint. | | Unkn. | Unkn. | 152 of 185 complete. |
| EQP 8531 | Delete MOV heaters | Yes | 6544 | 11/27 | 12/2 | Rutledge | 11866, 11853 | 1/5 | C | Work with MOV rewire. |
| EQP 8532 | Delete L/S 1-, 2-43-201, -202, -207, and -208 | Yes | 6563 | 12/18 | 12/24 | Alas | | 1/23 | 1/16 | Writing W/P. |
| EQP 8533 | Delete dual voltage splice | Yes | N/A | N/A | N/A | Rutledge | 11866, 11853 | 1/12 | C | Work with MOV rewire. |
| EQP 8534 | Resplice valve positioner 3-174 and -175 | | | | | Maxwell | MR | 1/13 | 1/13 | MR's in field. |
| EQP 8535 | Replace limit switches, U-1 10, U-2 12 | Yes | 6556 | 12/7 | 12/18 | Stockton | | 1/30 | 1/23 | |
| EQP 8536 | Valve room submergence | | 6561 | | | Mech. Mods. | | | 1/23 | Elect. Mods.??? |
| EQP 8537 | Rebuild or replace JB 3078 | | 6579 | 12/27 | 1/2 | Amburn | | 1/16 | N/A | Hold for design resolution. |
| EQP 8538 | Replace capacitors FCO-31-475, -476 | | | | | Maxwell | | 1/18 | 1/18 | |

Date: 1/2/86

| SCR No. | Description | Memo | ECN | Issued | Drawings | Engineer | Workplan No. | Estimated Date of Completion U-1 | Estimated Date of Completion U-2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| EQP 8539 | Replace capacitors | | | | | Inst. Maint. | - | Unkn. | Unkn. | Capacitors onsite. |
| EQP 8540 | Replace pigtails to Target Rock solenoid valves | | | | | Maxwell | | 1/31 | 1/20 | Writing workplan. Need drawings. |
| EQP 8541 | Delete brakes | | | | | Branham | | 1/31 | N/A | 1-FCV-63-93, -94. |
| EQP 8542 | Replace unqualified cables | | | | | Hall | | Unkn. | N/A | Hold for resolution of issue. |
| EQP 8543 | Replace JB wire | | | | | Amburn | | 1/31 | 1/20 | Writing functionals. |

Date: 1/2/86

| SCR No. | Description | Memo | ECN | Issued | Drawings | Engineer | Workplan No. | Estimated Date of Completion U-1 | Estimated Date of Completion U-2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| N/A | Move surge suppression network for PORV | N/A | 5773 | Yes | Yes | Kimsey | 11883 - | 1/6 | 1/4 | On U-2, complete. On U-1, 1-PCV-68-340 in hold. |
| EEB 8523 | Penetration overcurrent | | 6204<br>6219<br>6452 | Yes | Yes | Legg | 11891 | C | C | All fuse blocks installed. Need to run functional when submerged conduit is complete. Preparing QIR for closure. |
| N/A | Work FCR to delete 1-, 2-PS-3-160A, -160B, -165A, and -165B | N/A | 5883 | Yes | Yes | Hall | | | | Need SI-166. |
| N/A | Replace 1-FT-1-3A, -3B, -10A, -10B, -21A, -21B, -28A, -28B | N/A | 6347 | Yes | Yes | Inst. Maint. | | Unkn. | N/A | |
| NEB 8510 | Relocate LT-68-320, PT-68-323, -320 | N/A | 6439 | U-1<br>U-2 | U-1 | Carrasquillo<br>Peters | Various | 1/18 | 1/23 | On schedule. |
| | Remount 63-71, 68-308 | N/A | 6496 | Yes | Yes | Legg | 11865 | C | C | |
| | Replace LS-65-4, -5 | N/A | 6504 | Yes | Yes | Legg | 11865 | N/A | Unkn. | 65-5 complete. 65-4 in hold for maintenance. |
| MEB 8410R3 | Replace LS-77-127 | 11/22 | 6525 | Yes | Yes | Legg | 11865 | N/A | C | |
| | Delete brakes FCV-62-61 | | 6521 | Yes | 12/3 | Branham | 11905 | | | Workplan in approval cycle. |
| EEB 8517 | Replace pressure switch 65-80 and 65-82. | | 6488 | | 12/24 | Scalfone | | | | Writing W/P |

SEQUOYAH NUCLEAR PLANT
DATE SUMMARY OF UPCOMING OUTAGES

| Unit 1 | Start Date | Duration (Days) | Finish Date |
|---|---|---|---|
| Initial Criticality | 07/05/80 | | |
| U1, C3 | 08/22/85 | 173* | 02/11/86* |
| Surveillance/Ice | 04/03/87 | 17 | 04/19/87 |
| U1, C4 | 06/26/87* | 50 | 08/14/87* |
| Surveillance/Ice | 10/07/88 | 17 | 10/23/88 |
| U1, C5 | 12/30/88* | 51 | 02/18/89* |
| Surveillance/Ice | 04/06/90 | 17 | 04/22/90 |
| U1, C6 | 07/06/90* | 75 | 09/18/90* |
| Surveillance/Ice | 10/04/91 | 17 | 10/20/91 |
| U1, C7 | 01/31/92* | 45 | 03/15/92* |

| Unit 2 | Start Date | Duration (Days) | Finish Date |
|---|---|---|---|
| Initial Criticality | 11/05/81 | | |
| U2, C3 | 09/05/86* | 50 | 10/24/86* |
| Surveillance/Ice | 10/30/87* | 17 | 11/15/87* |
| U2, C4 | 03/18/88* | 51 | 05/07/88* |
| Surveillance/Ice | 05/12/89* | 17 | 05/28/89* |
| U2, C5 | 09/22/89* | 45 | 11/05/89* |
| Surveillance/Ice | 11/09/90* | 17 | 11/25/90* |
| U2, C6 | 03/22/91* | 75 | 06/04/91* |
| Surveillance/Ice | 06/05/92* | 17 | 06/21/92* |
| U2, C7 | 10/23/92* | 45 | 12/06/92* |

NOTE: The unit 2 schedule assumes a 02/02/86 return-to-service from the forced outage that began on 08/21/85 and a 75% operating capacity factor (OCF) for the 153 effective full power days that remain in the unit 2 core.

*Denotes changes since last update.

ATP:CCM 01/08/86

SEQUOYAH NUCLEAR PLANT
FUEL CYCLE DESIGN BASIS INFORMATION SHEET

Unit 1

| | Cycle 3 | Cycle 4 | Cycle 5 | Cycle 6 | Cycle 7 |
|---|---|---|---|---|---|
| Operating Cycle Length (Days) | 492 | 499 | 503 | 502 | 499 |
| *Operating Capacity Factors | 76 | 85 | 85 | 85 | 85 |
| Scheduled Mid-cycle Outage Days | 37 | 17 | 17 | 17 | 17 |
| Estimated Coastdown Days | 1 | 5 | 3 | 2 | 0 |
| Core Full Power Days | 345 | 405 | 410 | 410 | 410 |

Unit 2

| | Cycle 3 | Cycle 4 | Cycle 5 | Cycle 6 | Cycle 7 |
|---|---|---|---|---|---|
| Operating Cycle Length (Days) | 618 | 510 | 502 | 501 | 506 |
| *Operating Capacity Factors | 61 | 85 | 85 | 85 | 85 |
| Scheduled Mid-cycle Outage Days | 0 | 17 | 17 | 17 | 17 |
| Estimated Coastdown Days | 12 | 9 | 2 | 1 | 6 |
| Core Full Power Days | 364 | 410 | 410 | 410 | 410 |

ATP:CM 01/03/86

## Sequoyah Nuclear Plant Quarterly Schedule Summary

This schedule summary includes outage information from the first quarter of FY 86. Plans for the remainder of FY 86 and subsequent fiscal years will be included after the impact of employee concerns and Environmental Qualification (EQ) work is accurately defined.

The unit 1 refueling and unit 2 forced outage schedules have been revised on a biweekly basis since November 1985 as a result of required Environmental Qualification work. The total scope of work to be performed has not been completely defined; however, at least 28 Engineering Change Notices (ECNs) have been issued this FY and 21 scheduled ECNs are in work or have been completed. At least 6 ECNs have not been issued and 4 of these have not been scheduled. At least 31 scheduled ECNs are in work or have been completed since the outages began.

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

January 10, 1986

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

Gentlemen:

SEQUOYAH NUCLEAR PLANT - MONTHLY OPERATING REPORT - DECEMBER 1985

Enclosed is the December 1985 Monthly Operating Report to the NRC for Sequoyah Nuclear Plant.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

P. R. Wallace

P. R. Wallace
Plant Manager

Enclosure
cc (Enclosure):
Director, Region II
Nuclear Regulatory Commission
Office of Inspection and Enforcement
101 Marietta Street
Suite 3100
Atlanta, GA 30323 (1 copy)

Director, Office of Inspection
and Enforcement
Nuclear Regulatory Commission
Washington, DC (12 copies)

Mr. A. Rubio, Director
Electric Power Research Institute
P. O. Box 10412
Palo Alto, CA 94304 (1 copy)

Mr. R. C. Goodspeed
MNC 461
Westinghouse Electric Corporation
Pittsburgh, PA 15230 (1 copy)

Mr. K. M. Jenison, Resident NRC Inspector
Sequoyah Nuclear Plant

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, GA 30339 (1 copy)

IE24
1/1



An Equal Opportunity Employer