

TENNESSEE VALLEY AUTHORITY
DIVISION OF NUCLEAR POWER
SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

December 1, 1984 - December 31, 1984

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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Operations Summary

December 1984

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 1 was critical for 744.0 hours, produced 862,510 MWH (gross), resulting in an average hourly gross load of 1,159,288 kW during the month. There are 170.8 full power days estimated remaining until the end of cycle 3 fuel. With a capacity factor of 85 percent, the target EOC exposure would be reached July 20, 1985. The capacity factor for the month was 98.0 percent.

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

Unit 2

Unit 2 was critical for 209.3 hours, produced 39,000 MWH (gross), resulting in an average hourly gross load of 304,997 kW during the month. There are 362.0 full power days estimated remaining until the end of cycle 3 fuel. With a capacity factor of 85 percent, the target EOC exposure would be reached March 2, 1986. The capacity factor for the month was 4.4 percent.

During the month, the unit experienced one reactor scram, two manual shutdowns and no power reductions.

Significant Operational Events

Unit 1

<u>Date</u>	<u>Time</u>	<u>Event</u>
12/01/84	0001	The reactor was in mode 1 at 100% power producing 1165 MWe.
12/18/84	1420	Began a load reduction to test the 500 kv intertie breakers.
	1530	The reactor was at 82% power and holding. The unit load was 964 MWe.
	2335	Began power ascension.
12/19/84	0415	The reactor obtained 100% power.
12/31/84	2359	The reactor was in mode 1 at 100% power and producing 1165 MWe.

Significant Operational Events

(Continued)

Unit 2

<u>Date</u>	<u>Time</u>	<u>Event</u>
12/01/84	0001	Cycle 2 refueling/modification outage continues.
12/03/84	1306	The reactor entered mode 4.
12/05/84	1250	The reactor entered mode 5 for RPI repairs, inoperable RCP #3 and leaking primary check valves 63-641 and -644.
12/13/84	2155	The reactor entered mode 4.
12/14/84	2053	The reactor entered mode 3.
12/15/84	0326	The 500 kv Watts Bar 2 (PCB 5064) CT exploded. The fire was extinguished within 5 minutes.
12/16/84	0826	While attempting to stop PZR safety valve 68-330 from leaking a reactor trip and safety injection occurred on a Lo Pressure SI signal. The reactor was not critical at the time.
12/17/84	0050 0130	Pressurizer safety 68-564 opened. 68-564 was reseated. RCS was at 547 ^o F and 1800 psi.
12/18/84	2020 2147	The reactor entered mode 2. The reactor was taken critical.
12/19/84	1735 2200	Control bank A, rod H-10 dropped. The reactor was in mode 2 and subcritical (Keff < 1 > .99).
12/20/84	0140 0300 1725 2310 2339	Control bank A, rod H-10 repairs were completed. The reactor was taken critical. Control bank D, rod H-4 dropped while stepping in D bank. Began cooling down to mode 5 for control rod problems. The reactor entered mode 3.
12/21/84	0453 1131	The reactor entered mode 4. The reactor entered mode 5.

Significant Operational Events

(Continued)

Unit 2

<u>Date</u>	<u>Time</u>	<u>Event</u>
12/23/84	1230	Began RCS heat-up.
	1505	The reactor entered mode 4.
	2025	The reactor entered mode 3.
12/24/84	2255	The reactor entered mode 2.
	2258	The reactor was taken critical.
12/26/84	0046	The reactor entered mode 1.
	0433	The unit was tied on line. The cycle 2 refueling/modification outage ended (88 days).
	1350	The reactor obtained 30% power producing 290 MWe and was holding for secondary chemistry and the turbine overspeed trip test.
12/29/84	1355	Began reducing load for the turbine overspeed trip test.
	1532	The reactor tripped due to a Lo-Lo #4 steam generator level. The reactor entered mode 3.
12/30/84	0008	The reactor was taken critical.
	0115	The reactor entered mode 1.
	0306	The unit was tied online.
	0405	The reactor obtain 30% power and was holding for secondary chemistry.
12/31/84	2359	The reactor was in mode 1, holding at 30% power due to secondary chemistry and producing 300 MWe.

PORVs and Safety Valves Summary

Licensee Events and Special Reports

The following licensee event reports (LER) were sent during December 1984 to the Nuclear Regulatory Commission.

<u>LER</u>	<u>DESCRIPTION OF EVENT</u>
1-84071	On November 21, 1984, with unit 1 in mode 1 at 100% power and unit 2 in mode 5, during a review of Surveillance Instruction (SI)-6, "Containment Building Ventilation Isolation," it was noted that the radiation monitors for containment ventilation isolation were not being adequately verified in accordance with the technical specifications. The SI was verifying containment ventilation isolation from only the gaseous channels of the upper and lower containment radiation monitors, and did not include the particulate channels during core alterations or movement of irradiated fuel (as described in LCO 4.9.9) only. This procedure deficiency was discovered after the unit had returned to a nonapplicable mode. The SI is being revised to include both channels. Both channels of the radiation monitors were operable during the time that SI-6 was required as verified.
1-84072	On December 7, 1984, Sequoyah Instrument Maintenance personnel identified a functional discrepancy for postaccident radiation monitors for the RCDT discharge piping, and the RBFES discharge piping from containment. It was noted that the RCDT monitors were located on the RBFES piping and the RBFES monitors on the RCDT piping. This would have resulted in the inability of the monitors to close their designed containment isolation valves in the event of high radiation through the discharge lines. Upon event discovery, the monitors were revised to provide adequate and correct isolation capability. This is an item of noncompliance with License Condition 2.C.22.F for unit 1.
1-84073	A fire door inspection was performed at Sequoyah Nuclear Plant, using UL guidelines from a Watts Bar inspection. This inspection resulted in finding 110 fire doors that fail to meet Underwriters Laboratory (UL) Standards. Thirty-six (36) of these doors have been evaluated as being nonfunctional, and L.C.O. 3.7.12 was entered at 1040 CST on December 12, 1984 for these doors. Fire watches required per Action (a) of L.C.O. 3.7.12 were satisfied by using existing watches in this area, previously established by other Appendix R commitments. Failure of the 110 doors can be attributed to maintenance and modifications activities performed on these doors.

Licensee Events and Special Reports (continued)

LER

DESCRIPTION OF EVENT

1-84074

Inspections at Sequoyah Nuclear Plant have identified the following additional items of noncompliance with Appendix R of 10 CFR 50. These inspections are part of an ongoing project to ensure compliance with Appendix R.

1. 1-FCV-68-332 cable 1V2449B interacts with 1-PCV-68-340A cable 1V5612A in the auxiliary building on elevation 734 in the 6.9kV shutdown board room 'A' at A3-6/R-S line.
2. 2-FCV-68-333 cable 2V2455A interacts with 2-PCV-68-334 cables 2V5593B and 2V5594B in the auxiliary building on elevation 734 in the 6.9kV shutdown board room 'B' at A11-13/R line.
3. 1-PCV-68-334 cable 1V5598B and train 'A' power to 1-FCV-68-333 interact on elevation 748 in the auxiliary building in the 480 volt transformer room '1A'.
4. 2-PCV-68-340A cable 2V5610A interacts with train 'B' auxiliary power cables to block valve 2-FCV-68-332 in the auxiliary building at elevation 714 on A8/Q line.
5. 2-PCV-68-334 cable 1V5596B interacts with train 'A' auxiliary power cables to block valve 2-FCV-68-333 in the auxiliary building at elevation 714, A6-8/Q-R line.
6. 2-PCV-68-340A cable 2V5612A interacts with train 'B' auxiliary power cables to block valve 2-FCV-68-332 at elevation 759 in the auxiliary building in the CRD equipment room.
7. Cables for 'A' train valves 0-FCV-70-193 and 0-FCV-70-197 and 'B' train valves 0-FCV-70-194 and 0-FCV-70-198 interact on elevation 714 in the auxiliary building with the 1AA, 2AA, 1BB, 2BB, and C-S CCS pumps.
8. 2-FCV-74-1 cable 2V2780A interacts with 'B' train auxiliary power for 2-FCV-74-2 in the auxiliary building at elevation 759 in the CRD equipment room at A13/V.
9. In the auxiliary building at elevation 734 in the unit 1 reverse osmosis room, cables for 1-FCV-74-2 interact with cables for normal and excess letdown. For a fire involving normal and excess letdown, the shutdown logic requires that 1-FCV-74-1, -2 be open within 15 hours.
10. Interactions exist between 1-LCV-62-132 (cables 1V2761A, 1V2764A, 1V2765A) and 1-LCV-62-133 (cables 1V2771B, 1V2774B, 1V2775B) such that spurious operation of either valve could be caused by a fire in the auxiliary building at elevation 690.

Licensee Events and Special Reports (continued)

LER

DESCRIPTION OF EVENT

1-84074

(continued)

11. Cables for 1-, 2-FCV-70-156 (1V2562A, 1V2565A, 2V2562A, 2V2565A) train 'A' and 1-, 2-FCV-70-153 (1V2556B, 1V2559B, 2V2556B, 2V2559B) train 'B' interact with each other and cables associated with CCS pumps 1AA, 2AA, 1BB, 2BB, and CS. These interactions exist in the auxiliary building on elevations 690, 714, 734, and 749.
12. Common power supply and common enclosure cables were analyzed per Appendix R criteria. Four hundred and six (406) circuits failed this criteria due to lack of proper fuse and breaker coordination. More information will be forthcoming per confirmation of action letter from J. P. O'Reilly to H. G. Parris dated August 10, 1984.

The action statement for Technical Specification 3.7.12 was satisfied by utilizing fire watches in the affected areas that were established by other Appendix R commitments. This action included the establishment of a roving fire watch in areas with fire detection and a dedicated fire watch in areas without fire detection.

1-84075

On December 1, 1984, at 0000 CST, with unit 1 in mode 1 at 100% power and unit 2 in mode 5, the fire watch assigned to route "C" (outside) on November 30, 1984, from 1500 CST to 2300 CST, failed to await proper relief prior to assuming an overtime watch on route "B" (inside). The replacement for route "C" failed to show up for work as scheduled. This condition remained unknown until the assistant unit operator (AUO) outside realized that the fire watch truck had not moved during the shift. The shift engineer immediately re-established the fire watch on route "C" (at 0510 CST) by utilizing the outside AUO.

Licenses Events and Special Reports (continued)

Diesel Generator Failure Reports

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

Special Reports

The following special report was transmitted during the month.

DESCRIPTION

84-08 Sequoyah Nuclear Plant has been performing a sprinkler system walkdown during the Appendix R reverification program to ensure full compliance with License Condition 2.13.(a) of the Unit 2 Facility Operating License. These walkdowns have identified sprinklers in the Auxiliary Building that do not comply with the literal requirements of NFPA Standard No. 13, as committed to in the Fire Protection Program submittal and the SER Supplement I submittal. All sprinklers identified have been evaluated as being operable, and will function to prevent both redundant divisions of safe shutdown equipment from being damaged. The locations of these sprinkler heads have been summarized in the following table by elevation. The table also categorizes the sprinklers into different areas of corrective actions required to bring the sprinkler system into compliance with NFPA Standard No. 13.

Elevation (Aux Bldg)	Relocate (Note 1)	Plug (Note 2)	Add (Note 3)
669	53	90	25
690	78	25	31
714	123	0	116
734	111	185	27
749	34	20	18
759	19	29	0
	<u>418</u>	<u>349</u>	<u>217</u>

(Note 1) - These sprinkler heads must be relocated to bring into full compliance with NFPA-13.

(Note 2) - These sprinkler heads have been evaluated as not being required for NFPA-13, and will be plugged or removed.

Licenses Events and Special Reports (continued)

DESCRIPTION

(Note 3) - These sprinkler heads must be installed to bring the system into compliance with NFPA-13, and address intervening combustibles. The majority of these must be added, due to obstructions between the ceiling mounted sprinkler heads and floor level equipment.

84-10

Fire door A-77 was open without a fire barrier breaching permit and the required roving fire watch. This door is located on elevation 690 between the containment airlock doors and the 690 penetration room. Unit 2 was in a refueling outage, and door A-77 is located in the passageway used for access to the annulus and lower containment.

Offsite Dose Calculation Manual Changes

There were no changes in the Sequoyah Nuclear Plant Offsite Dose Calculation Manual (ODCM).

OPERATING DATA REPORT

DOCKET NO. 50-327
 DATE JANUARY 10, 1985
 COMPLETED BY M. G. EDDINGS
 TELEPHONE (615) 870-6248

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 1 NOTES:
 2. REPORT PERIOD: DECEMBER 1984
 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	8784.00	30721.00
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.00	6206.10	20647.66
13. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
14. HOURS GENERATOR ON-LINE	744.00	5995.80	20108.95
15. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	2525283.37	19185835.65	64677685.95
17. GROSS ELECTRICAL ENERGY GEN. (MWH)	862510.00	6357280.00	21736416.00
18. NET ELECTRICAL ENERGY GENERATED (MWH)	827991.00	6104702.00	20881630.00
19. UNIT SERVICE FACTOR	100.00	68.26	65.46
20. UNIT AVAILABILITY FACTOR	100.00	68.26	65.46
21. UNIT CAPACITY FACTOR (USING MDC NET)	96.94	60.54	59.21
22. UNIT CAPACITY FACTOR (USING DER NET)	96.94	60.54	59.21
23. UNIT FORCED OUTAGE RATE	0.00	19.22	18.34
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:	-----		
	-ICE WEIGHING - APRIL, 26, 1985, - 19 DAYS -----		

NOTE THAT THE THE YR.-TO-DATE AND CUMULATIVE VALUES HAVE BEEN U'DATED.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-327
 UNIT NAME Sequoyah One
 DATE January 10, 1985
 COMPLETED BY M. G. Eddings
 TELEPHONE (615) 870 6248

REPORT MONTH December

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method Of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
									NO SHUTDOWNS OR POWER REDUCTIONS DURING MONTH

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)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-327
 UNIT ONE
 DATE January 10, 1985
 COMPLETED BY M. Eddings
 TELEPHONE (615) 870-6248

MONTH December 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1129.1</u>	17	<u>1125.0</u>
2	<u>1122.0</u>	18	<u>1073.4</u>
3	<u>1124.5</u>	19	<u>1087.2</u>
4	<u>1123.8</u>	20	<u>1127.8</u>
5	<u>1124.3</u>	21	<u>1129.3</u>
6	<u>1125.6</u>	22	<u>1129.2</u>
7	<u>1125.4</u>	23	<u>1127.3</u>
8	<u>1126.2</u>	24	<u>1127.2</u>
9	<u>1127.0</u>	25	<u>1126.6</u>
10	<u>1126.4</u>	26	<u>1126.5</u>
11	<u>1125.5</u>	27	<u>1125.2</u>
12	<u>1126.9</u>	28	<u>1122.8</u>
13	<u>1123.6</u>	29	<u>1120.4</u>
14	<u>1127.3</u>	30	<u>1120.0</u>
15	<u>1128.5</u>	31	<u>1120.5</u>
16	<u>1128.9</u>		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

OPERATING DATA REPORT

DOCKET NO. 50-328
 DATE JANUARY 10, 1985
 COMPLETED BY D.C.DUPREE
 TELEPHONE (615)870-6248

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 2 NOTES:
 2. REPORT PERIOD: DECEMBER 1-31, 1984
 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	8784.00	22681.00
12. NUMBER OF HOURS REACTOR WAS CRITICAL	209.30	6334.05	16695.12
13. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
14. HOURS GENERATOR ON-LINE	127.87	6115.86	16270.18
15. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	131365.76	19580943.06	51999010.87
17. GROSS ELECTRICAL ENERGY GEN. (MWH)	39000.00	6659740.00	17691680.00
18. NET ELECTRICAL ENERGY GENERATED (MWH)	29582.00	6403271.00	17021008.60
19. UNIT SERVICE FACTOR	17.19	69.62	71.73
20. UNIT AVAILABILITY FACTOR	17.19	69.62	71.73
21. UNIT CAPACITY FACTOR (USING MDC NET)	3.46	63.50	65.37
22. UNIT CAPACITY FACTOR (USING DER NET)	3.46	63.50	65.37
23. UNIT FORCED OUTAGE RATE	8.30	7.44	8.59
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. 50-328
 UNIT NAME Sequoyah Two
 DATE January 10, 1985
 COMPLETED BY D. C. Dupree
 TELEPHONE (615) 870-6196

REPORT MONTH December 1984

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
13	840928	S	604.55	C	4				Refueling Outage Continues
14	841229	F	11.57	A	3				Reactor Tripped on Lo-Lo S/G Level While Reducing Power For The Turbine Overspeed Trip Test.

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)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-328
 UNIT Sequoyah Two
 DATE January 10, 1985
 COMPLETED BY D. C. Dupree
 TELEPHONE (615) 870-6196

MONTH December 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	RO	17	RO
2	"	18	"
3	"	19	"
4	"	20	"
5	"	21	"
6	"	22	"
7	"	23	"
8	"	24	"
9	"	25	"
10	"	26	260
11	"	27	321
12	"	28	324
13	"	29	224
14	"	30	264
15	"	31	318
16	"		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

Plant Maintenance Summary

The plant maintenance summary for significant maintenance items completed during the month of December 1984 are listed in the following order:

Construction Activities
Electrical Maintenance Section
Electrical Modification Section
Instrument Maintenance Section
Mechanical Maintenance Section
Mechanical Modification Section

Construction Activities

December 1984

ECN L6241 - Raise yard drainage pond skimmer 5 feet. EPA commitment modification.

This modification was completed on December 21, 1984 and complied with the EPA commitment date of December 31, 1984.

ECN L5503, 5111 - Office and Power Stores facility.

The project is approximately 94 percent complete. During this month work continued on the top floor, EL.740. Installation of heating and ventilating units, carpet, glass windows, energy management systems, duct insulation, painting, ceiling installation, doors and office partition etc. Continued material delivery of glass windows, the arrival of the ceiling installation contractor and changes in the offices layout caused a 2 week delay of the January 1st occupancy date. Work continues on the other floors.

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

The project is approximately 70% complete. During this month work continued on the installation of piping, cable trays, protective coatings, and yard piping. Installation of pump foundations in the Turbine Building continued. Workplans for interfacing work in the Turbine Building have been approved. The schedule for preoperational testing of the systems has been given to Construction to complete the systems required to facilitate pre-op so that the plant can be operational by March 31, 1985. Construction may start multi-shift work on this building.

ECN L5599 - Fifth Vital Battery

The project is approximately 85 percent complete. Construction is scheduled to be completed by January 21, 1985. Discharge testing on the new batteries to begin on January 21, 1985. Discharge test on existing vital batteries to begin on January 28, 1985.

ECN L5841 - Hot Machine Shop

The project is 99 percent complete. Health Physics laboratory deconning machines, electric shop, snubber shop, and hot machine shop were in use during the unit 2 cycle 2 outage. Work continued on communication and fire detection cable pulling and equipment installation. Monorail and hoist over electro-polishing equipment in the decon room will be done later.

ECN L6182 - Cooling Tower Repair

Custodis Ecodyne - The contractor finished ice damage related work on both cooling towers and left the site. They will come back later to complete the remaining two punchlist items (concrete louvers and nozzles).

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE FAILURE DESCRIPTION.....	MONTHLY REPORT FOR DECEMBER CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	PAGE 1 MR. NO..
12-03-84	0-CHR-311-0141	CONTROL ROOM CHILLER PACKAGE "B" WANT START	NOT KNOWN AT THIS TIME	WENT TO CHECK UNIT FOUND IN SERVICE (NO WORK PERFORMED)	A293628
12-03-84	2-PMP-003-0142	STEAM GENERATOR BLOWDOWN VALVE WILL NOT ISOLATE	POSSIBLY HAND SWITCH IN WRONG POSITION	CHECKED OPERATION OF CIRCUIT PER DRAWING 45W646-6 HAD OPERATOR STROKE THROTTLE VALVE 2-FCV-1-151 SYSTEM WORKING PROPERLY AT THIS TIME	A294559
12-03-84	2-FCV-062-0084	SUSPECT LIMIT SWITCH PROBLEM VALVE W'LL SHOW FULLY OPEN BUT WILL NOT SHOW FULLY CLOSED ON AUXILIARY SPRAY TO RCS	BOLTS ON LIMIT SWITCH BRACKET LOOSE ON AUXILIARY SPRAY VALVE TO RCS	TIGHTENED BOLTS ON LIMIT SWITCH BRACKET	A288974
12-04-84	0-HTCK-234-040 4	TEMPERTURE CONTROLLER WOULD NOT WORK ON C.V.C ELECTRICAL HEAT TRACE	BAD TEMPERTURE CONTROLLER	REPLACED TEMPERTURE CONTROLLER	A295922
12-04-84	2-HTCK-234-041 1	AMPERAGE ON CIRCUIT 411 WILL NOT MEET ACCEPTANCE CRITERIA	DEFECT IN HEAT TRACE WIRE	SPLICED HEAT TRACE CHECKED CURRENT NOW 2.3 AMPS	A232467
12-04-84	0-HTCK-234	VERIFY PROPER OPERATION OF HEAT TRACE CIRCUITS ASSOCIATED WITH THE HIGH PRESSURE FIRE PUMPS	NO FAILURE PREVENTIVE MAINTANCE	WORK PERFORMED AS REQUESTED ONE MR WROTE ON CIRCUIT #176	A247635
12-04-84	0-CHR-311-0141	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED CONTACTS AND LOOSE CONNECTIONS ON CONTROL BUILDING CHILLER (B)	NO FAILURE PREVENTIVE MAINTANCE	REMOVED COVER AND CLEANED MAIN CONTACTORS. INSPECTED ALL RELAYS	A284834
12-04-84	1-CHR-311-0156	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED CONTACTS AND LOOSE CONNECTIONS ON ELECTRIC BOARD ROOM CHILLER (A)	NO FAILURE PREVENTIVE MAINTANCE	INSPECTED RELAYS AND CONTROLS AS REQUESTED	A284838

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	PAGE 2 MR.NO..
12-04-84	2-IGN-268-0248	IGNITER 248 FAILED SI 305.2	IGNITER BREAKER TRIPPED	REPLACED IGNITER NO 248 BREAKER 13B PER MI 6.20 AND M&AI 12 RAN SI 305.2 ON IGNITER 248 PULLING 8.0 AMPS	A297874
12-04-84	2-IGN-268-0238	IGNITER 238 FAILED SI 305.2	IGNITER BREAKER TRIPPED	REPLACED IGNITER 238 BREAKER 15 B PER MI 6.20 AND M&AI 12. RAN SI 305.2 ON IGNITER 238 PULLING 8.1 AMPS	A297875
12-04-84	2-IGN-268-0208	IGNITER 208 FAILED SI 305.2 ON BREAKER 13 A	IGNITER BREAKER TRIPPED	REPOLACED IGNITER 208 PER MI 6.20 AND M&AI 12. RAN SI 305.2 PULLING 8.9 AMPS	A297870
12-04-84	2-IGN-268-0207	IGNITER ON BREAKER 13 A FAILED SI 305.2	BREAKER 13 A TRIPPED	CHECKED BREAKER 13 A FOUND IGNITER 207 TO BE GOOD AND IGNITER 208 WAS BAD	A284453
12-04-84	1-CMP-313-0458	LARGE AMOUNT OF BUBBLES IN SIGHT GLASS MAY BE LOW ON FREON	NO FAILURE	CHECKED OPERATION OF UNIT, OPERATING PROPERLY, ADJUSTED PRESSURE CONTROL OPERATOR	A296459
12-05-84	2-FCV-003-0090	CHECK ELECTRIC WIRING TO SOLONOID ON FEED WATER REGULATOR VALVE	NO FAILURE PREVENTIVE MAINTANCE	CHECKED ELECTRIC WIRING-WORKIONG PROPERLY-NO WIRES LIFTED. TIGHTENED CHASE NIPPLE GOING TO "C" CONDUIT	A233899
12-05-84	2-FCV-003-0048	CHECK ELECTRIC WIRING TO SOLONOID ON FEEDWATER REGULATOR VALVE	NO FAILURE PREVENTIVE MAINTANCE	CHECKED ELECTRIC WIRING-WORKING PROPERLY-NO WIRES LIFTED. TIGHTENED CHASE NIPPLE GOING TO "C" CONDUIT	A233900
12-13-84	1-CHR-313-0433	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED CONTACTS AND LOOSE	NO FAILURE PREVENTIVE MAINTANCE	INSPECTED RELAYS AND CONTACTORS AS REQUESTED	A287744

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	PAGE 3 MR.NO..
		CONNECTIONS ON 480 VOLT BOARD ROOM CHILLER 1-A			
12-13-84	2-CHR-313-0458	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED CONTACTS AND LOOSE CONNECTIONS ON 480 VOLT BOARD ROOM CHILLER 2A	NO FAILURE PREVENTIVE MAINTANCE	INSPECTED RELAYS AND CONTACTORS AS REQUESTED	A287745
12-13-84	2-CHR-313-0503 -B	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED AND LOOSE CONNECTIONS ON 480 VOLT BOARD ROOM CHILLER 2B	NO FAILURE PREVENTIVE MAINTANCE	INSPECTED RELAYS AND CONTACTORS AS REQUESTED	A287747
12-13-84	1-CHR-313-0453 -B	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED AND LOOSE CONNECTIONS ON 480 VOLT BOARD ROOM CHILLER :B	NO FAILURE PREVENTIVE MAINTANCE	INSPECTED RELAYS AND CONTACTORS AS REQUESTED	A287746
12-13-84	2-CHR-311-0171	INSPECT RELAYS AND CONTACTORS FOR BURNED OR PITTED CONTACTS AND LOOSE CONNECTIONS ON ELECTRIC BOARD ROOM CHILLER "B"	NO FAILURE PREVENTIVE MAINTANCE	INSPECTED RELAYS AND CONTACTORS AS REQUESTED	A284839
12-13-84	1-ZS-030-0056	STATUS LIGHTS ON VALVE 1-ZS-030-0056 SHOWING BOTH RED AND GREEN IN CLOSED POSITION.	DIVIDER MISS ALIEGNEED ALLOWING LIGHT TO SHOW IN BOTH WINDOWS	REPLACED DIVIDER BETWEEN RED AND GREEN WINDOWS IN PROPER POSITION STILL WOULD NOT PREVENT LIGHT FROM SHOWING THROUGH BOTH WINDOWS. REPLACED FIXTURE	A288667
12-13-84	2-LOCL-013-063 1	REMOVE FIRE DETECTORS CABLE AND CONDUIT ABOVE R.C.P MOTOR #3 INSTALL JUMPERS IN THE FIRE DETECTION PANELS TO PREVENT ENERGIZING THE FIRE SYSTEM SO MAINTANCE WORK CAN BE PERFORMED ON	NO FAILURE	INSTALLED JUMPERS IN FIRE DETECTOR PANELS TO PREVENT ENERGIZING FIRE WYSTEM. REMOVED AND RE-INSTALLED CONDUCTS OVER RCP #3 INVOLVING FIRE PROTECTION. WIRES REMOVED AND RE-INSTALLED	A287520

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER			PAGE 4
		FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
		RCP MOTOR #3		PER MI 6.20	
12-13-84	0-HTCK-234-028 P	CIRCUIT 28P LIGHT WILL NOT CLEAR	CURRENT RELAY OUT OF ADJUSTMENT ON CVC ELECTRIC HEAT TRACE CIRCUIT 28P	ADJUSTED CURRENT RELAY	A285864
12-13-84	2-FCV-001-0025	BOTH LIMITS ARE LIT WITH VALVE IN BOTH OPEN AND CLOSE POSITION	ROLLER WORN OFF ARM ON CLOSED LIMIT SWITCH OF STEAM GENERATOR BLOWDOWN LOOP #3 OUTSIDE ISOLATION	REPLACED ARM ON CLOSED LIMIT SWITCH	A288819
12-14-84	2-FCV-062-0070	LOOP #3RCS LET DOWN VALVE WILL NOT OPEN	LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH MOUNTING BRACKET	A297441
12-14-84	0-CHR-031-0008	CHILLER PACKAGE 8-B IS NOT COOLING MAIN CONTROL ROOM	LOW ON FREON	ADJUSTED HEAD PRESSURE, SIGHT GLASSES CLEAR	A296675
12-14-84	2-FCV-026-0240	WHILE PERFORMING SI 166.6 ON 2-FCV-26-240 THE GREEN LIGHT NEVER GOES OUT	VALVE IS CAUSING TORQUE SWITCH TO TORQUE OPEN CAUSING GREEN LIGHT TO STAY ON	OPERATED VALVE SEVERAL TIMES BY HAND WORKING PROPERLY AT THIS TIME	A289259
12-14-84	2-FCV-001-0022	BLUE LIGHT WILL NOT CLEAR WHEN VALVE IS FULL OPEN ON UNIT 2 LOOP 3 MAIN STEAM ISOLATION VALVE	LIMITS ARE SLOW FROM HEAT AND MOISTURE, VALVE WAS STROKED TOO FAST TO ALLOW PROPER LIGHTS TO RESPOND ON UNITY 2 LOOP 3 MAIN STEAM ISOLATION VALVE IN EAST VALVE ROOM	CHECKED ALL CIRCUITRY INCLUDING DIODES AND RELAYS ALL WIRING AND CIRCUITRY WERE RIGHT AND IN GOOD WORKING ORDER OPERATIONS STROKED VALVE 12-3-84 ALLOWING SUFFICIENT TIME FOR LIMIT OPERATION, EVERY THING OK	A297445
12-14-84	2-BCTD-003-003 3	RELAY CHATTERING ON CLOSE COIL TO 2-FCV-3-33	CONTACTORS DIRTY AND STICKING	CLEANED IRON LAMINATION OF CONTACTOR CHECKED AND WORKING PROPERLY AT THIS TIME	A296232
12-14-84	0-HTCK-234-304 P	CVC ELECTRIC HEAT TRACE CIRCUIT WANT CLEAR	CURRENT TRANSFORMER CIRCUIT NOT PULLING	ADDED ONE TURN OF WIRE ON THE CURRENT TRANSFORMER	A285865

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER		PAGE 5	
		FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
			ENOUGH AMPS	CIRCUIT IS PULLING .5 AMPS	
12-14-84	2-ZS-062-0115	SIS ACCUMALATOR TANK #1 FILL VALVE NOT TO CLEAR	LIMIT SWITCH OUT OF ADJUSTMENT	TIGHTEN ADJUSTING RODS AND READJUSTED LIMIT SWITCH	A286117
12-14-84	2-MTRB-077-000 2-B	REACTOR COOLANT DRAIN TANK PUMP 2B WILL NOT RUN	MOTOR BAD	REPLACED MOTOR	A294489
12-14-84	0-MTRB-026-011 A	PERFORM 1000 VOLT MEGGER TEST ON FIRE PUMP 2B-B LOCATED 480 VOLT SHUTDOWN BOARD 2B-B COMPT. 3C	NO FAILURE	PERFORMED MEGGER TEST PER MI 10.20	A086359
12-14-84	1-BATB-250	GROUND ON UPPER COMPARTMENT ISOLATION VALVE 2-FSV-30-52 AND 2-FSV-30-10 (SHOWS 130 VOLT GROUND ON 125 VITAL BATTERY BOARD III	DEAD GROUND	LOCATED GROUND PER MI 10.13 (SUBMITTED 2 MRS ON 12-10-84 TO CLEAR UP GROUND	A288898
12-17-84	2-MVOP-070-013 4-B	PERFORM ROUTINE MAINTANCE ON LIMITORQUE OPERATOR	NO FAILURE PREVENTIVE MAINTANCE	WORK PERFORMED PER ROUTINE MAINTANCE PRECEDURE ATTACHED SIGN OFF SHEET	A298362
12-17-84	2-ZS-090-0107- 1	REPLACE TOP COVER GASKET ON NAMCO SERIES EA180 LIMIT SWITCH (TOP COVER GASKET REPLACEMENT KIT IS A NAMCO EA18110102 TIIC #BBT526B)	NO FAILURE PREVENTIVE MAINTANCE	REPLACED TOP COVER GASKET AS REQUESTED	A287630
12-17-84	2-ZS-090-0117- 1	REPLACE TOP GASKET COVER ON NAMCO SERIES EA180 LIMIT SWITCH (TOP COVER GASKET REPLACEMENT KIT IS A NAMCO EA18110102)	NO FAILURE PREVENTIVE MAINTANCE	REPLACED TOP COVER GASKET AS REQUESTED	A287653
12-17-84	2-ZS-090-0111- 1	REPLACE TOP COVER GASKET ON NAMCO SERIES EA180	NO FAILURE PREVENTIVE MAINTANCE	REPLACED TOP COVER GASKET AS REQUESTED	A287639

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ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER

PAGE 6

DATE....	COMPONENT.....	FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
		LIMIT SWITCH (TOP COVER GASKET REPLACEMENT KIT IS A NAMCO EA18110102)			
12-17-84	1-MTRB-077-000 6	THERMOAL OVERLOAD KEEPS TRIPPING OUT ON REACTOR COOLANT DRAIN TANK PUMP 1B	OVERLOADS BAD	REPLACED OVERLOADS	A288727
12-19-84	2-PCV-068-0340	LIMIT SWITCH WAS GIVING RED AND GREEN LIGHT INDICATION WHEN VALVE WAS CLOSED	LIMIT SWITCH ARM OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH ARM TO OBTAIN PROPER OPERATION	A296608
12-19-84	2-FSV-061-0122	VALVE WILL STROKE TO OPEN POSITION ID ALLOW FLOW BUT CLOSED LIMIT SWITCH WILL NOT CLEAR	LIMIT SWITCH LEFT LOOSE FROM FIELD SERVICES WORK PLAN	TIGHTENEN LIMIT SWITCH AND TIMED FOR OPERATION	A296248
12-19-84	2-FCV-001-0011	BLUE LIGHT (10 PERECENT) CLOSED IN CONTROL ROOM WILL NOT CLEAR WHEN VALVE IS FULLY OPEN	NO FAILURE FOUND AT THIS TIME	CHECKED OUT COMPLETE CIRCUIT FOUND NO PROBLEM AND FUNCTIONALLY CHECKED VALVE AND LIGHTS ALL OPERATING PROPERLY	A297444
12-19-84	2-PCV-065-0087	GREEN LIGHT WILL NOT CLEAR WHEN VALVE IS OPEN	CLOSED LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH	A302057
12-19-84	2-RCV-068-0340 -A	PRESSURE OPERATED RELIEF VALVE NEEDS REWIRING	NO FAILURE PREVENTIVE MAINTANCE	REWIRED AS REQUESTED	A040299
12-19-84	2-HTCK-234-012 2-P	RED LIGHT ON THERMOSTAT NOT TO COME ON WHILE PERFORMING SI 16	TEMPERTURE CONTROLLER BAD ON CVCS HEAT TRACE	REPLACED TEMPERTURE CONTROLLER	A296617
12-19-84	1-GENB-082-001 B-B	IMERSION HEATER WILL NOT COME ON IN 1B-B DIESEL GENERATOR	OVER LOAD RELAYS BAD	REPLACED OVER ,LOAD RELAYS	A296660
12-19-84	2-GENB-082-000 2-A	DIESEL GENERATOR 2A-A TRIPS FROM REVERSE POWER 32 RELAYS	ACTUATOR PLUG ON GOVERNOR WAS DIRTY	CLEANED ACTUATOR PLUG ON GOVERNOR AND CHECKED FOR OPERATION	A289322

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
12-19-84	2-FCV-090-0114	CONTAINMENT ISOLATION VALVE FOR 2-RM-90-112 WOULD NOT OPEN	WHILE DOING WORK PLAN FIELD SERVICES KNOCKED LIMITS OUT OF ADJUSTMENT ON CONTAINMENT ISOLATION VALVE	ADJUSTED LIMIT SWITCH FOR PROPER OPERATION ON AIR VALVE	A296594
12-19-84	0-LOCL-013-060 1	FIRE DETECTOR IN PAINT STORAGE WAS NOT TIGHT CAUSING ZONES 401 AND 339 ON PYROTRONICS PANEL 0-L-601 TO BE IN ALARM	BAD FIRE DETECTOR	REPLACED FIRE DETECTOR	A121906
12-19-84	2-BATB-082-VE- B	GREEN LIGHT SOCKET ON 2B-B DIESEL GENERATOR BATTERIES IS BAD AND SHOWING 130 VOLT GROUND	INDICATING LIGHT SOCKET BAD	REPLACED DIALCO INDICATING LIGHT SOCKET	A121936
12-19-84	2-FCV-001-0029	CABLE 2V7968A WAS SHORT TO GROUND ON MAIN STEAM ISOLATION VALVE IN WEST VALVE ROOM OF UNIT 2	HEAT IN WEST VALVE ROOM	REPLACED WIRE AND CONDUIT FLEX TO JUNCTION BOX 401	A296517
12-19-84	2-FSV-026-0223	INVESTIGATE CAUSE OF 2-FSV-026-0223 OF UNIT 2 R.B. CABLES WATER SPRAY CIRCUIT BEING ENGERIZED WITH ONLY ZONE 374 IN ALARM	NO FAILURE	SYSTEM CHECKED OUT PER SI 234.7 USING MI 6.20 TO LIFT THE WIRES SYSTEM WORKING PROPERLY AT THIS TIME	A244744
12-19-84	0-CHR-311-0171	ELECTRIC BOARD ROOM CHILLER "B" WILL NOT RESTART	NO FAILURE	UNIT WOULD NOT START BECAUSE OF LOW SUCTION PRESSURE	A302020
12-19-84	1-ZS-030-0057	OPEN LIMIT SWITCH ON CONTAINMENT VENT DAMPER VALVE IS NOT TURNING OFF THE GREEN LIGHT	LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH FOR PROPER LIGHTS HAD OPERATIONS STROKE VALVE AND RAN SI 166.6	A293589
12-19-84	0-CHR-031-00/2 D-A	FREON LOW IN 6.9KV SHUT DOWN BOARD ROOM CHILLER A THE CHILLER WOULD START	LEAK IN EXPANSION VALVE	REPAIRED LEAK AT EXPANSION VALVE TIGHTENED FLARE FITTING AND	A256693

08:00:30 DATE....	01-03-85 COMPONENT.....	ELECTRICAL MAINTENANCE MONTHLY REPORT FOR DECEMBER			PAGE 8
		FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
		AND RUN FOR 10 OR 15 SECONDS THEN TRIP OFF		PROPERLY CHARGED UNIT WITH R-22 REFRIGERENT	
12-20-84	2-ZS-077-0017	VALVE LIMITS SHOW THROTTLED WHEN VALVE SHOULD BE CLOSED ON REACTOR COOLANT DRAIN TANK TO GAS ANN. ISOLATION IN UNIT 2 PIPE CHASE 690	CORROSION INSIDE LIMIT SWITCH	LIFTED WIRES OFF LIMIT SWITCH CLEANED OUT LIMIT SWITCH CHECKED OPERATION OF VALVE HAD OPERATIONS STROKE VALVE AND RUN SI 166.6	A296244
12-20-84	0-LOCL-013-060 2	LIGHT BLINKING IN POWER POSITION ON PANEL OF PYROTRONICS 0-L-602 AUXILIARY BUILDING	POWER LITE BAD	REPLACED PLUG IN TYPE POWER LITE. NO TERMINATIONS MADE	A288880
12-20-84	0-RM-090-134/1 41	RAD MONITOR KEEPS TRIPPING BREAKER AT 1-11 BREAKER 7 BATTERY BOARD	BAD MOTOR	REPLACED MOTOR PERFORMED SI206	A296685
12-20-84	2-PEN-302-0036	CABLE CUT ON OUTBOARD SIDE OF PENETRATION THAT SUPPLYS R.C.D.T ISOLATION VALVE 2-FCV-77-415	NO FAILURE PREVENTIVE MAINTANCE	SPliced OUTBOARD CABLE OF PENETRATION 36 CABLE #2V8914 PER M&AI 7 AND DWG. 45A-860-36	A298785

59 records listed.

SUMMARY OF WORK COMPLETED
ELECTRICAL MODIFICATIONS SECTION

DECEMBER 1984

DCR 1739 - VAACS

Panel wiring continued during this period.

ECN 5194 - Iodine Monitors

Work remaining consists of installation of door locks and new door frames. Security wiring is in hold until another ECN is executed.

ECN 5198 - Technical Support Center

Changes to the annunciator system are in process.

ECN 5202 - Fifth Diesel Generator

Cable pulls and splices are in process.

ECN 5712 - Evacuation Alarms

Major cable pulls in the auxiliary building are in process.

ECN 6018 - Installation of Space Heaters, Auxiliary Feedwater Pump Motors

Unit 1 conduit is being installed.

ECN 6055 - Fourth Wide-Range Pressure Transmitter

All nonoutage work is complete.

Appendix R

Work continues on the first five interactions. An implementation schedule has been developed.

Instrument Maintenance Monthly Report

December 1984

Unit 1

1. Pressurizer level channels L-68-320, -335, and -339 have been operating within the five percent channel deviation as required. All channels have been in service all month.
2. During the monthly calibration of the UHI level switches all switches were found within technical specification tolerance.
3. We supported CDWE cleanup and replacement of the density element due to solidification.
4. The P-250 process computer was declared inoperable twenty times during the month. The computer was restarted and returned to service without appreciable down time. The P-250 will be removed from service and cleaned during the next unit outage of sufficient duration.
5. NCR SQN-NEB 8407 was issued on 12/6/84 to report possible mislocation of Class 1E equipment. Radiation detectors RE-90-275 and -276 were specified in the instrument tabs as monitoring the reactor coolant drain tank discharge lines and RE-90-277 and -278 were specified as monitoring the reactor building sump discharge lines. Visual inspection and testing on 11/20/84 revealed that the monitoring detectors were functionally reversed. The problem was corrected by TACF 1-84-123-90 on 12/7/84. FCR 3110 was written to revise the drawings.

Unit 2

1. During the monthly calibration of the UHI level switches all switches were found within technical specification tolerances.
2. NCR SQN-NEB 8407 was issued on 12/6/84 to report possible mislocation of Class 1E equipment. Radiation detectors RE-90-275 and -276 were specified in the instrument tabs as monitoring the reactor coolant drain tank discharge lines and RE-90-277 and -278 were specified as monitoring the reactor building sump discharge lines. Visual inspection and testing on 11/20/84 revealed that the monitoring detectors were functionally reversed. The problem was corrected by TACF 2-84-122-90 on 12/7/84. FCR 3110 was written to revise the drawings.
3. During startup from the outage 6 RPI connectors failed. Causes were determined to be open wires in the connectors and water in the connectors. Seven rod control connectors also failed due to wiring problems at the connectors.
4. Other work is shown on the attached list.

COMP

MR. COMP	U	FUNC	SYS	ADDRESS.	DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A230521	2	LT	068	339	12/18/84	2-LT-068-339, INDICATOR 6% HIGH	TRANSMITTER WAS OUT OF CALIB. RECALIB. AND BACKFILLED LEGS ON TRANSMITTER.
A233292	1	LT	068	320	12/03/84	1-LT-068-320, BACK FILL PZR LVL XMITTER	LOST FILLED LEG. BACKFILLED LEG
A234389	2	XX	302		12/17/84	2-XX-302-, *I* 3 OPEN PENETRATIONS(1 INCH) INSTALL CONDUIT PLUGS. MUST BE COMPLETE WITHIN 7 DAYS	RUN SI233
A285794	2	TM	068	318	12/03/84	2-TM-068-318, INSTALL NEW MODULE INPLACE OF OLD ONE. NEW MODULE OUTPUT IS LINEAR AND OUTPUT WILL NOT FLUCTUATE WITH AC POWER FLUCTUATIONS.	MODULE WAS FOUND TO BE DEFECTIVE. MODULE WAS REPLACED & THE SETPOINT WAS ADJUSTED TO PROPER SETTING.
A286980	2	LIC	003	164	12/07/84	2-LIC-003-164, S/G #1 LEVEL CONTROLLER-CONNECTOR PLUG ON BACK OF CONTROLLER IS BROKEN	PLUG ON SIGNAL CABLE IS BROKEN, POSSIBLY DUE TO STRESS. REPLACED CONNECTOR PLUG AND VERIFIED PROPER OPERATION.
A288954	2	FI	063	173A	12/10/84	2-FI-063-173A, RHR HOTLEG INJECTION-WHEN FULL FLOW THRU 63-172-ND FLOW IS INDICATED.	ALIGNMENT PROBLEM ON VLV. LINEUP. REALIGNED VLVs.
A288970	2	FCV	062	143	12/11/84	2-FCV-062-143, *I* WHEN IN AUTO FCV-143 OPENED SEVERAL TIMES FOR NO APPARENT REASON.	NO PROGRAM FOUND. PROPER OPERATION VERIFIED.
A289263	2	XI	085	5106A1	12/01/84	2-XI-085-5106A1, STEP COUNTER FAILING ON DOWN COMMAND	BAD STEP COUNTER. REPLACED STEP COUNTER
A289271	1	FCV	087	11	12/04/84	1-FCV-087-11, FLOW CONTROL VLV HAS AIR REGULATOR LEAKING AIR ON BOTTOM OF REGULATOR	BAD REGULATOR. REPLACED REGULATOR.
A289279	2	PI	001	19C	12/07/84	2-PI-001-19C, *I* GAUGE IS READING APPROX. 480 PSI WHEN IT SHOULD BE APPROX. 10 PSI REPAIR. MODE 3 ITEM	INDICATOR OUT OF CAL. THE INDICATOR WAS REPAIRED AND RECAL.
A289293	2	LIC	003	156	12/14/84	2-LIC-003-156, 2 LCV 3 156 AND 2 LCV 3 156A WILL NOT OPEN	SUPPLY AIR REGULATOR WAS OUT OF CALIB. ADJUSTED SUPPLY AIR REGULATOR TO 23PSIG AND FUNCTIONALLY TESTED.
A289392	2		092	5001	12/10/84	2--092-5001, N-31 HAS LOSS OF DETECTOR VOLTAGE REPAIR	THE HIGH VOLTAGE PX WAS DAMAGED. REPLACED THE PX AND ADJUSTED TO PROPER SETTING
A294777	2	PI	030	311	12/05/84	2-PI-030-311, *I* INDICATOR HAS OPEN INPUT CIRCUIT	PRESS. INDICATOR AND THE DIODE WERE BAD. THE DIODE AND PRESS. INDICATOR WERE REPLACED AND THE INDICATOR WAS RECAL.
A294814	2	PX	003	122C	12/03/84	2-PX-003-122C, REPAIR/REPLACE POWER SUPPLY MODULE AS NECESSARY	BROKEN-WIRE FROM CONNECTOR TO PX RECTIFIER CIRCUIT. REPAIRED WIRE
A294866	2	XE	068	334	12/11/84	2-XE-068-334, REPLACE ACCELEROMETER PROBE 2-XE-68-334	NONE. ACCELEROMETERS WERE CHANGED TO NEW TYPE. REPLACED ACCELEROMETER
A294995	2	PDT	065	80	12/07/84	2-PDT-065-80, CONTAINMENT ANNULUS DP - TRANSMITTER-PARKER TEST TEE ON HIGH LEG NEEDS REPLACNG	LEAKING TEST FITTING. REPLACED FITTING
A296199	2	LCV	003	156	12/15/84	2-LCV-003-156, VLV LEAKING THRU	VLV. SEAT BAD. MECH. REPAIRED ON ANOTHER MR AND WE RESTROKED VLV.

MR. COMP	U	FUNC	SYS	ADDRESS.	DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A296628	1	LI	077	410	12/11/84	1-LI-077-410, *I* CALIB., INDICATING LOWER	TRANSMITTER OUT OF CALIB. RECALIB. TRANSMITTER.
A296672	1	TI	068	398	12/11/84	1-TI-068-398, 1-TI-68-398 INDICATING APPROX 160-185DEG F, INDICATOR DRIFTING & NO OTHER PARAMETERS INDICATING LEAKAGE	POSSIBLY LOOSE CONNECTION. CHECKED LOOP, NO PROBLEM FOUND
A296732	1	LCV	003	174	12/17/84	1-LCV-003-174, VLV WILL NOT STROKE IN MANUAL OR AUTO	SOLENOID STUCK. TAPPED SOLENOID TO FREE UP.
A299002	2	FI	003	170A	12/15/84	2-FI-003-170A, LOOP #4 FLOW INDICATOR READS 10-15 GPM FLOW WHEN PMPs ARE NOT RUNNING	TRANSMITTER WAS OUT OF CALIB. RECALIB. TRANSMITTER
A301066	2	FI	003	170A	12/21/84	2-FI-003-170A, INSTR. READS 15GPM WITH ALL VLVs (LCV'S) CLOSED AND NO FLOW	TRANSMITTER WAS OUT OF CALIB. CAUSING THE VLV. TO BE PARTIALLY OPEN. TRANSMITTER WAS RECALIB.
A301068	2	FI	003	147A	12/20/84	2-FI-003-147A, FLOW INDICATOR STICKS ON BOTTOM WILL NOT INDICATE FLOW UNTIL IT IS PECKED ON	POINT BENT ON INDICATOR. STRAIGHTENED POINT AND RECAL.
A301083	2	FM	062	139A	12/21/84	2-FM-062-139A, FLOW INDICATOR WILL NOT INDICATE FLOW WITH BORIC ACID VLV OPEN	THE MODIFIER WAS OUT OF CALIB. RECALIB. MODIFIER
A302035	2	LCV	003	90A	12/07/84	2-LCV-003-90A, *I* VLV IS NOT SEATING OFF COMPLETELY & IS LEAKING THROUGH	LOW LIMIT ON THE VLV. CONTROLLER WAS HIGH. ADJUSTED CONTROLLER
A302040	2	LI	068	321	12/11/84	2-LI-068-321, *I* COLD CAL. INSTR. HAS A HIGHER READING THAN THE HOT CAL. PZR LVL INDICATION.	TRANSMITTER OUT OF CALIB. RECALIB. TRANSMITTER.
A302055	2	PI	001	26C	12/06/84	2-PI-001-26C, PRESS. INDICATOR PEGGED OUT BOTTOM.	BAD INDICATOR. REPLACED INDICATOR.
A302065	1	LIC	003	156	12/15/84	1-LIC-003-156, VLV 156 IS OPERATING ERRATICALLY	LIMIT SWITCH WAS SET WRONG. THE ELECTRICIANS RESET THE SWITCH AND OPERATION WAS VERIFIED.
A302169	2	PDIS	067	491/E/F	12/18/84	2-PDIS-067-491/E/F FILTER 2A CONTINUOUSLY BACKWASHES-SUSPECT 2-PDIS-67-491 E/F MALFUNCTIONING	SWITCH OUT OF CAL. RECAL. SWITCH
A302177	2	PS	003	171	12/15/84	2-PS-003-171, WHEN S/G PRESS IS LESS THAN 500 PSIG THE LCV WILL NOT COME OPEN	PRESS. SWITCH WAS OUT OF CALIB. RECALIB. PRESS. SWITCH
A302182	2	LR	068	339	12/18/84	2-LR-068-339, PZR LVL SETPOINT IS TOO HI FOR RCS PRESS	TEMP. CONTROLLER WAS OUT OF CALIB. RECALIB. THE TEMP. CONTROLLER
A302196	2	PMP	003	142	12/17/84	2-PMP-003-142, TURB TRIPS ON ELECT OVERSPEED	SIGNAL CONVERTER BOX WAS OUT OF ADJUSTMENT. READJUSTED SIGNAL CONVERTER MODULE AND VERIFIED PROPER OPERATION.

32 records listed.

Mechanical Maintenance Section

December 1984

Unit 1

1. Leaks from valves 1-VLV-3-891 and -829 were stopped by Furmanite.

Unit 2

1. Primary check valves 2-63-641 and -644 failed to seat during SI-166.10. The seats and flappers were blued and lapped. They were retested on 12/14/84.
2. 2-LCV-62-118 was replaced.
3. The main turbine was balanced on 12/27/84.
4. The inboard mechanical seal was replaced on 2B-b charging pump.
5. The seats and trim were replaced in 2-LCV-3-148 and -164.
6. The missile shield was set, caulked and smoked tested.
7. The mechanical seal on 2B-B RHR pump was replaced.
8. The RCP's were balanced.
9. The 2B-B Auxiliary Feedwater Pump burned out a bearing and it was replaced. Due to excessive clearance between the balancing drum and the balancing sleeve, the new bearing ran hot and required replacement. In addition, the clearance was corrected.

Common

1. The diesel generators were inspected per SI-106.
2. Crystallization was cleared from the CDWE heater and work continued clearing the 16-inch line.

Mechanical Modification Section

December 1984

ECN 2768 - REVLIS

PMTs were completed with no problems. Work documentation was completed. Work began on the preparation of work for the "improvements" for unit 1. This includes modifying the seal table tie-in and the unit 1 vessel head attachment.

ECN 5773, 619b, 5856 Pressurizer Work

Due to leakage during start-up the loop-seal drain valves were closed. An additional hanger was modified.

ECN 2780 5200 - PASF

PMTs were completed. Painting is underway. Workplans were prepared for several discrepancies for unit 1.

ECN 5842 - Cavitating Venturi

PMTs were completed. Some additional hanger work is anticipated.

ECN 5938 - FW Heater Replacement

Work was started on the relocation of ductwork, building structural modifications, the piping modifications, and the modification of the Hartsville Heater Nozzles.

ECN 6362

Additional supports for the ERCW to the diesel generators were installed.

ECN 6302

Additional support was provided to Auxiliary Building block wall to qualify the wall for a seismic event.

ECN 6289

Work was started to replace the concrete blow-out panels for the valve rooms. Two plugs were poured but not installed. Approximately 14 panels are to be replaced.

"Appendix R" - Initial walkdowns of the sprinkler location was completed. Schedules were developed for implementation. EN DES is working on the preparation of ECNs and purchasing materials. Field work is scheduled to begin on these items April 1, 1985. Additional walkdowns are scheduled to start on January 7, 1985.

TENNESSEE VALLEY AUTHORITY

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

JAN 14 1985

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

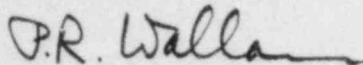
Gentlemen:

SEQUOYAH NUCLEAR PLANT - MONTHLY OPERATING REPORT - December 1984

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY



P. R. Wallace
Plant Manager

Enclosure

cc (Enclosure):

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