TENNESSEE VALLEY AUTHORITY

DIVISION OF NUCLEAR POWER

SEQUOYAH NUCLEAR PLANT

MONTHLY OPERATING REPORT

TO THE

NUCLEAR REGULATORY COMMISSION

May 1, 1985 - May 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

IE24
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Operations Summary

May 1985

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

Unit 1

Unit 1 remained in the scheduled ice weighing/maintenance outage the entire month. All major activities were completed except the assembly of the electrical generator. There are 76.4 full power days estimated remaining until the end of cycle 3 fuel. The cycle 3 refueling outage is scheduled to begin September 13, 1985.

The scheduled returned to service date is June 15, 1985.

Unit 2

Unit 2 was critical for 488.5 hours, produced 476,610 MWH (gross), resulting in an average hourly gross load of 1,046,919 kW during the month. There are 234.3 full power days estimated remaining until the end of cycle 3 fuel. The capacity factor for the month was 54.2 percent. With a capacity factor of 85 percent, the target EOC exposure would be reached March 3, 1986.

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

Significant Operational Events

Unit 1

Date	Time	Event
05/01/85	0001	The reactor was in mode 5 with the ice weighing/maintenance outage continuing.
05/20/85	1300	The reactor entered mode 4. Electrical generator reassembly continued.
05/31/85	2359	The reactor was in mode 4. Reassembly and leak testing of the electrical generator continued.

Significant Operational Events (Cont.)

Unit 2

Date	Time	Event
05/01/85	0001	The reactor was in mode 1 at 100% power producing 1170 MWE.
05/03/85	1209	The reactor tripped following generator/turbine trip due to the loss of stator cooling flow. The 'B' stator cooling pump was placed in service and the 'A' pump was placed in standby. The 'A' pump power supply cable caught fire. The ASE shut down the 'B' pump assuming the operating pump was on fire, and tried to start the 'A' pump. Since the 'A' pump power supply had failed, these actions resulted in a total loss of stator cooling water.
05/03/85	1856	The reactor was taken critical.
05/04/85	0553	Feedwater valves 2-FCV-3-33 and -100 were found with broken stems. The failure was caused by the limit switches being improperly set following a NUREG 0588 modification. The problem was specific to fast acting valves that have enough momentum to carry the stem into the backseat after the limit switch has cut off the motor.
	0905	The reactor entered mode 3.
05/05/85	1741	The reactor entered mode 4 to repair the feedwater valves.
05/10/85	1236	The reactor entered mode 3.
05/11/85	1127	Rod N-11 in shutdown bank "D" fell 25 steps.
	1148	Rod N-11 was declared inoperable.
	1515	Began cooling down to lift the center missile barrier.
	1918	The reactor entered mode 4.
	2245	The reactor entered mode 5.

Unit 2

Date	Time	Event
05/12/85	1945	The reactor entered mode 4.
05/13/85	0144	The reactor entered mode 3.
	1721	The reactor was taken critical
05/14/85	0042	The unit was tied on-line.
	0430	The unit obtained 30% reactor power.
	1406	Began power ascension.
	2101	The reactor was holding 58% reactor power. Condenser circulating water pump 2C was declared inoperable.
05/15/85	0001	Began power ascension
	0239	With the reactor at 80% power, #3 Htr Dr Tk Pmp 2C failed to start.
	0443	Increased reactor power to 87% #3 Htr Dr Tk Pmp 2C was not pumping at full capacity.
	0500	Reduced reactor power to 85%.
	0617	Reactor power 83%.
	0840	Began power ascension.
05/16/85	1400	The reactor obtained 100% power.
05/22/85	1329	The reactor tripped on an overpower Δt (OPΔt) signal generated while IMs were connecting M&TE in the process protection set II, rack 6 per TI-2.
05/23/85	0800	The reactor was taken critical
	1055	LCV-3-171 failed
	1104	The reactor entered mode 3 for repairs to LCV-3-171.
	1650	The reactor was taken critical.
05/24/85	0141	The unit was tied on-line.
	0230	The reactor obtained 30% power.

Significant Operational Events (Cont.)

Unit 2

Date	Time	Event
05/25/85	0700	Began power ascension
	1630	Held 72% power for maintenance to the A bank of the intermediate heaters.
	1800	Began power ascension.
05/20/85	0220	The reactor obtained 100% power
05/27/85	1315	Began reducing power to remove #3 Htr Dr Tk Pmp 2C from service for repairs.
	1355	The reactor was holding 84% power.
	1605	Began power ascension
	1930	The reactor obtained 100% power.
05/31/85	2359	The reactor was in mode 1 at 100% power producing 1170 MWE.

Spent Fuel Pit Storage Capabilities

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

There were three shipments of Cycle 4 (36 bundles) fuel received during the month. All fuel is presently stored in the new fuel storage vault. Thus far, no discrepancies have been found. The final three shipments are scheduled for the month of June.

PORVs and Safety Valves Summary

No PORVs nor safety valves were challenged during the month.

Licensee Events and Special Reports

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

LER	DESCRIPTION OF EVENT
1-85014	On April 4, 1985, with both units operating at 100% power, an inadverted auxiliary building isolation (ABI) occurred during the calibration of 0-RM-90-101 (Auxiliary Building Stack Radiation Monitor). The isolation was identified and reset approximately one and one half hours after the incident occurred.

1-85015 On April 4, 1985 at 1800 CST, with unit 1 in mode 1 at 100% power, the hourly fire watch for the unit 1 auxiliary building supply air fan room could not be conducted because door A-123 would not open. The pin that secures the lower dogging pin to the dogging pin release rod had come out. The pin was replaced the door was verified operable. The fire watch resumed at 2300 CST.

1-85016 On April 13, 1985, Unit 1 proceeded to shutdown from 36% RTP for a scheduled outage. During the decrease in power several events occurred which were unexpected. These were:

1. Simultaneous alarms of hi steam flow bistables on all four steamline loops.
2. Failure of AFW to start on demand.
3. Failure of a pressurizer spray valve in the operable position.
4. Inadvertent opening of the reactor trip breakers with the unit in mode 4.

1-85017 With unit 1 in cold shutdown (mode 5) and unit 2 at full power, an inadvertent auxiliary building isolation (ABI) occurred at 0725 CST on April 22, 1985. A second isolation occurred on May 6, 1985, at 0650 CST with unit 1 in mode 5 and unit 2 in hot shutdown (mode 4). The cause was an electromagnetic frequency feedback from welding activities causing radiation monitor RM-90-101 to indicate a high radiation signal.

1-85018 During an inspection of conduit to ensure compliance with the fire program requirement for sealant, three conduits were found that were not sealed on both sides of the fire barriers.

2-85006 On April 6, 1985, the air control valve for the essential raw cooling water valve 2-FCV-67-187 was found in the closed position. This would have prevented the supply of cooling water to CS pump room cooler 2B-B and resulted in inoperability of the CS pump. The valve was returned to its normal position.

2-85008 At 1200 CST on April 23, 1985, with unit 2 in mode 1 at 100% power, the hourly firewatch could not be conducted for the unit 2 auxiliary building supply air fan room or the unit 2 auxiliary building supply air intake filter room because door A-132 could not be opened. The door was opened by maintenance and the fire watch resumed with the 1700 CST hour. The cause was determined to be the failure of the door handle. The door was declared operable at 1641 CST.

Special Reports

There was one special report transmitted during the month.

85-04 The biological shield blocks were removed and the unit 1 reactor building equipment hatch was opened for the ice weighing outage. This condition was identified as a breach of a fire barrier penetration and remained non-functional for the duration of the outage.

Diesel Generator Failure Report

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

Offsite Dose Calculation Manual Changes

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

OPERATING DATA REPORT

DOCKET NO. 50-327
DATE JUNE 13 1985
COMPLETED BY M. G. EDDINGS
TELEPHONE (615) 870-6248

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 1 NOTES:
2. REPORT PERIOD: MAY 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	3623.00	34344.00
12.	NUMBER OF HOURS REACTOR WAS CRITICAL	0.00	2467.10	23114.76
13.	REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
14.	HOURS GENERATOR ON-LINE	0.00	2465.10	22574.05
15.	UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
16.	GROSS THERMAL ENERGY GENERATED (MWH)	0.00	8139835.76	72817521.71
17.	GROSS ELECTRICAL ENERGY GEN. (MWH)	0.00	2818410.00	24554826.00
18.	NET ELECTRICAL ENERGY GENERATED (MWH)	0.00	2711314.00	23592944.00
19.	UNIT SERVICE FACTOR	0.00	68.04	65.73
20.	UNIT AVAILABILITY FACTOR	0.00	68.04	65.73
21.	UNIT CAPACITY FACTOR(USING MDC NET)	0.00	65.19	59.84
22.	UNIT CAPACITY FACTOR(USING DER NET)	0.00	65.19	59.84
23.	UNIT FORCED OUTAGE RATE	0.00	0.00	16.67

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Refueling/Modification September 13, 1985 51 days

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
June 15, 1985

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

OPERATING DATA REPORT

DOCKET NO. 50-328
DATE JUNE 12 1985
COMPLETED BY D.C.DUPREE
TELEPHONE (615)870-6248

OPERATING STATUS

1. UNIT NAME: SEQUOYAH NUCLEAR PLANT, UNIT 2 NOTES:
2. REPORT PERIOD: MAY 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	3623.00	26304.00
12. NUMBER OF HOURS REACTOR WAS CRITICAL	488.52	3325.22	20020.34
13. REACTOR RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
14. HOURS GENERATOR ON-LINE	455.25	3260.17	19530.35
15. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	0.00
16. GROSS THERMAL ENERGY GENERATED (MWH)	1401908.86	10455369.90	62454380.77
17. GROSS ELECTRICAL ENERGY GEN. (MWH)	476610.00	3595540.00	21287220.00
18. NET ELECTRICAL ENERGY GENERATED (MWH)	453681.00	3458619.00	20479627.60
19. UNIT SERVICE FACTOR	61.19	89.99	74.25
20. UNIT AVAILABILITY FACTOR	61.19	89.99	74.25
21. UNIT CAPACITY FACTOR(USING MDC NET)	53.12	83.16	67.82
22. UNIT CAPACITY FACTOR(USING DER NET)	53.12	83.16	67.82
23. UNIT FORCED OUTAGE RATE	38.81	9.86	8.80

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-327
UNIT NAME Sequoyah One
DATE June 13, 1985
COMPLETED BY M. G. Eddings
TELEPHONE (615) 870-6248

REPORT MONTH MAY

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
2	850413	5	744	B	4				Ice Weighing Outage

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Cont. of Existing Outage
5-Reduction
9-Other

4
Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I-Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-328
UNIT NAME Sequoyah Two
DATE June 13, 1985
COMPLETED BY D. C. Dupree
TELEPHONE (615) 870-6248

REPORT MONTH MAY

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
7	850503	F	252.25	A	3				Loss of Stator Cooling Water
8	850522	F	26.50	H	3				Maintenance connecting test equipment improperly (personnel error).

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Cont. of Existing Outage
5-Reduction
9-Other

4
Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I-Same Source

(9/77)

ATTACHMENT 1
AVERAGE DAILY UNIT POWER LEVEL

FILE PACKAGE NO. 55
REPORT REQUIREMENTS

DOCKET NO. 50-327
UNIT 1
DATE June 12, 1985
COMPLETED BY M. G. Eddings
TELEPHONE 615-870-6421

MONTH MAY 1985

Day	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	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		

Ice Weighing/Maintenance Outage Continues

INSTRUCTIONS

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

ATTACHMENT 1
AVERAGE DAILY UNIT POWER LEVEL

FILE PACKAGE NO. 55
REPORT REQUIREMENTS

DOCKET NO. 50-328
UNIT 2
DATE June 12, 1985
COMPLETED BY D. C. Dupree
TELEPHONE 615-870-6933

MONTH MAY 1985

Day	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1138	17	1130
2	1140	18	1127
3	1060	19	1125
4	NA	20	1129
5	NA	21	1130
6	NA	22	1087
7	NA	23	NA
8	NA	24	255
9	NA	25	608
10	NA	26	1093
11	NA	27	1003
12	NA	28	1133
13	NA	29	1134
14	409	30	1133
15	1036	31	1133
16	1131		

INSTRUCTIONS

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

TVA 7382A (DNP-6-81)

NUCLEAR PLANT OPERATING STATISTICS

Sequoyah Nuclear Plant

Period Hours 744 Month May 19 85

	Item No.	Unit No.	UNIT ONE		UNIT TWO		PLANT
Generation	1	Average Hourly Gross Load, kW	0		1,046,919		1,046,919
	2	Maximum Hour Net Generation, MWh	0		1,148		1,148
	3	Core Thermal Energy Gen, GWD (t)[2]	0		58.4129		58.4129
	4	Steam Gen. Thermal Energy Gen., GWD (t)[2]	0		58.6740		58.6740
	5	Gross Electrical Gen., MWh	0		476,610		476,610
	6	Station Use, MWh	8,174		22,929		31,103
	7	Net Electrical Gen., MWh	-8,174		453,681		445,507
	8	Station Use, Percent	N/A		4.81		6.53
	9	Accum. Core Avg. Exposure, MWD/Ton[1]	11,264		4,967		16,231
	10	CTEG This Month, 10^6 BTU	0		4,784,715		4,784,715
	11	SGTEG This Month, 10^6 BTU	0		4,806,104		4,806,104
	12						
Factors & Use	13	Hours Reactor Was Critical	0		488.52		488.52
	14	Unit Use, Hours-Min.	0		455:15		455:15
	15	Capacity Factor, Percent	0		54.2		27.08
	16	Turbine Avail. Factor, Percent	0		87.53		43.76
	17	Generator Avail. Factor, Percent	0		98.29		49.14
	18	Turbogen. Avail. Factor, Percent	0		85.82		42.91
	19	Reactor Avail. Factor, Percent	0		82.24		41.12
	20	Unit Avail. Factor, Percent	0		61.19		30.59
	21	Turbine Startups	0		2		2
	22	Reactor Cold Startups	0		1		1
	23	Unit Service Hours					455.25
Efficiency	24	Gross Heat Rate, Btu/kWh	N/A		10,040		10,040
	25	Net Heat Rate, Btu/kWh	N/A		10,550		10,740
	26	Gross Heat Rate, BTU/KWH (Without Oil)					10,040
	27	Net Heat Rate, BTU/KWH (Without Oil)					10,740
Temp & Press	28	Throttle Pressure, psig	0		876.50		876.50
	29	Throttle Temperature, °F	0		528.83		528.83
	30	Exhaust Pressure, InHg Abs.	0		2.5		2.5
	31	Intake Water Temp., °F	0		68.1		68.1
	32						
Flows	33	Main Feedwater, M lb/hr	0		13.6		13.6
	34						
	35						
	36						
Misc.	37	Full Power Capacity, EFPD	370.00		363.65		733.65
	38	Accum. Cycle Full Power Days, EFPD	293.6167		129.3210		422.9377
	39	Oil Fired for Generation, Gallons					1,782
	40	Oil Heating Value, Btu/Gal.					138,000
	41	Diesel Generation, MWh					27
	42						

Station Data		Max. Hour Net Gen.			Max. Day Net Gen.		Load Factor, %
		MWh	Time	Date	MWh	Date	
	43	1148	2400	5-1-85	27,360	5-2-85	52.16

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

Date Submitted _____ Date Revised _____

P.R. Wallace
Plant Superintendent

TVA 6560C (PP-3-76)

UNIT OUTAGE AND AVAILABILITY

_____ Nuclear Plant

Licensed Reactor Power_____MW(th)

Unit No. TWO

Generator Rating_____MW(e)

Month/Year_____

Design Gross Electrical Rating_____MW

Period Hours_____

Day	Time Unit Available						Time Not Available								Unit				OUTAGE CAUSE	METHOD OF SHUTTING DOWN REACTOR	UNIT STATUS DURING OUTAGE	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION
	Total		Gen.		Not Used		Turbine		Gen.		Reactor		Unit		Time Out		Time In					
	Hrs	Min	Hrs	Min	Hrs	Min	Hrs	Min	Hrs	Min	Hrs	Min	Hrs	Min	Hrs	Min	Hrs	Min				
1	24	00	24	00			00	00	00	00	00	00	00	00								
2	24	00	24	00			00	00	00	00	00	00	00	00								
3	12	09	12	09			00	00	11	51	04	50	11	51	12	09			LOSS OF STATION COOLING WATER	AUTO SCRAM	MODE #4	
4	00	00	00	00			20	30	00	53	09	45	24	00								
5	00	00	00	00			24	00	00	00	00	00	24	00								
6	00	00	00	00			24	00	00	00	00	00	24	00								
7	00	00	00	00			23	15	00	00	00	00	24	00								
8	00	00	00	00			00	00	00	00	15	10	24	00								
9	00	00	00	00			00	00	00	00	24	00	24	00								
10	00	00	00	00			00	00	00	00	06	52	24	00								
11	00	00	00	00			00	00	00	00	17	33	24	00								
12	00	00	00	00			00	00	00	00	24	00	24	00								
13	00	00	00	00			00	00	00	00	12	38	24	00								
14	23	18	23	18			00	00	00	00	00	00	00	42			00	42				
15	24	00	24	00			00	00	00	00	00	00	00	00								
16	24	00	24	00			00	00	00	00	00	00	00	00								
17	24	00	24	00			00	00	00	00	00	00	00	00								
18	24	00	24	00			00	00	00	00	00	00	00	00								
19	24	00	24	00			00	00	00	00	00	00	00	00								
20	24	00	24	00			00	00	00	00	00	00	00	00								
21	24	00	24	00			00	00	00	00	00	00	00	00								
22	13	29	13	29			00	00	00	00	09	12	10	31	13	29			O.P.Δ.T.	AUTO SCRAM	MODE #3	
23	00	00	00	00			00	44	00	00	08	10	24	00								
24	22	19	22	19			00	19	00	00	00	00	01	41			01	41				
25	24	00	24	00			00	00	00	00	00	00	00	00								
26	24	00	24	00			00	00	00	00	00	00	00	00								
27	24	00	24	00			00	00	00	00	00	00	00	00			00	00	00 00			
28	24	00	24	00			00	00	00	00	00	00	00	00								
29	24	00	24	00			00	00	00	00	00	00	00	00								
30	24	00	24	00			00	00	00	00	00	00	00	00								
31	24	00	24	00			00	00	00	00	00	00	00	00								
Total	455	15	455	15			92	48	12	44	132	10	288	45								

TVA 6560C (PP-3-76)

UNIT OUTAGE AND AVAILABILITY

SEQUOYAH Nuclear Plant

Licensed Reactor Power 3411 MW(th)

Unit No. ONE

Generator Rating 122.05 MW(e)

Month/Year MAY 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					GENERATOR OUTAGE CONTINUES		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								
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25	00	00	00	00			24	00	24	00	24	00	24	00								
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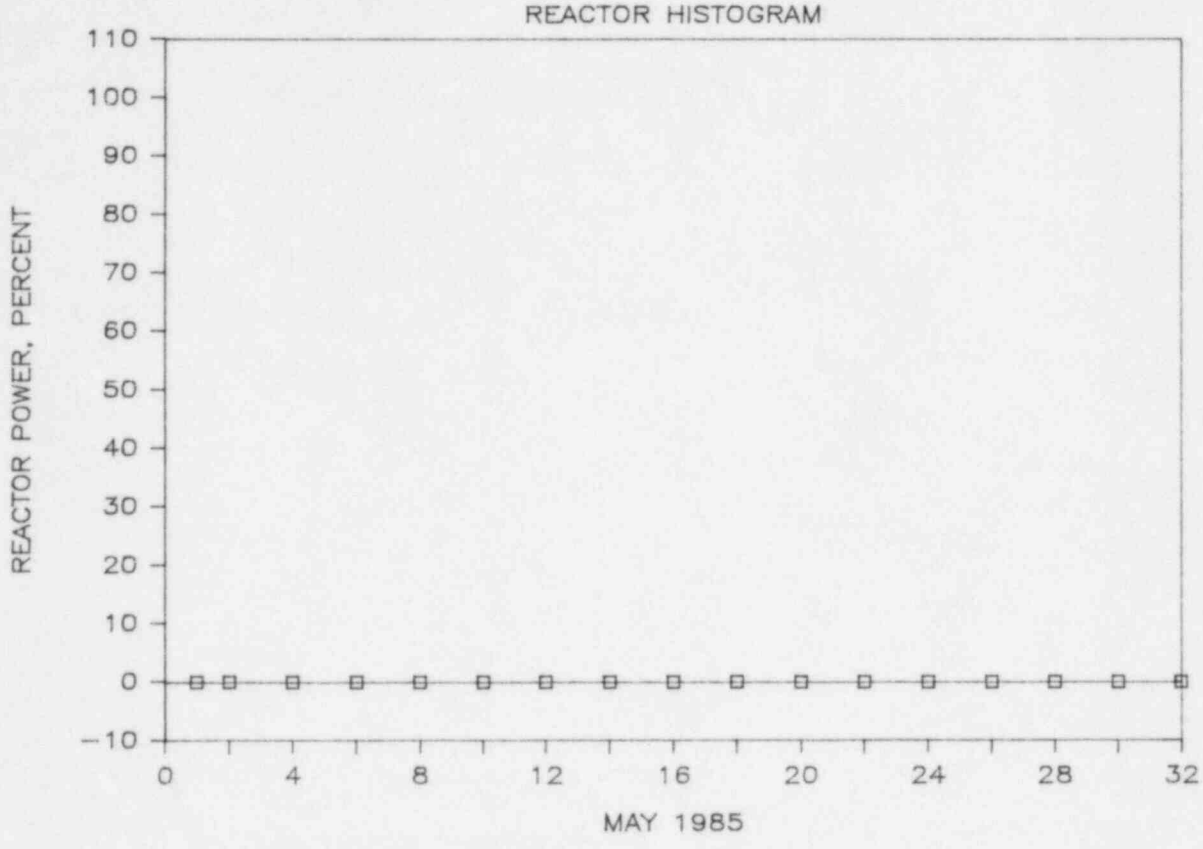
27	00	00	00	00			24	00	24	00	24	00	24	00								
28	00	00	00	00			24	00	24	00	24	00	24	00								
29	00	00	00	00			24	00	24	00	24	00	24	00								
30	00	00	00	00			24	00	24	00	24	00	24	00								
31	00	00	00	00			24	00	24	00	24	00	24	00								
Total	00	00	00	00			744	00	744	00	744	00	744	00								

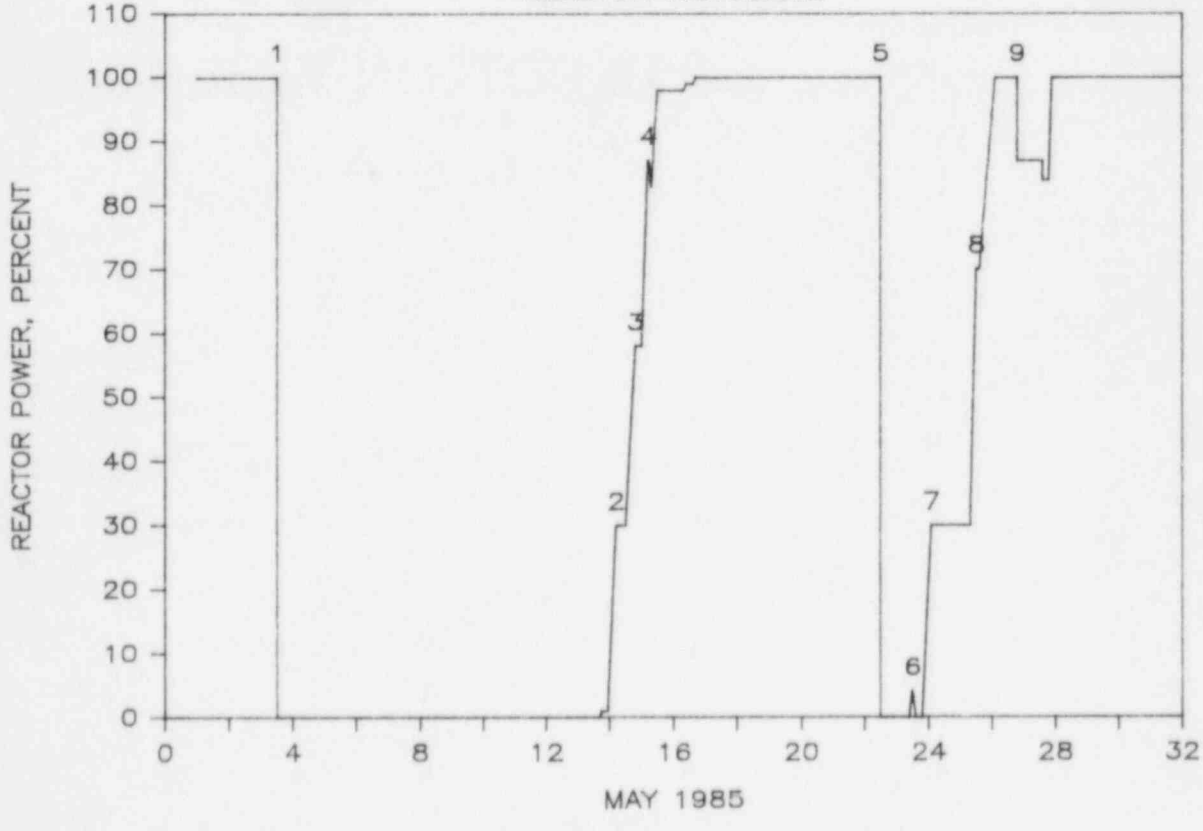
SEQUOYAH ONE

REACTOR HISTOGRAM



SEQUOYAH TWO

REACTOR HISTOGRAM



Reactor Histogram Comments

May 1985

Unit 1

The reactor remained in the scheduled ice weighing/maintenance outage throughout the month.

Unit 2

1. The reactor tripped following a turbine/generator trip due to the loss of stator cooling water.

2. Chemistry hold.

3. Stopped the power ascension for maintenance on condensate circulating water pump 2C.

4. Stopped the power ascension and reduced power to repair #3 Htr Dr Tk Pmp 2C.

5. The reactor tripped on an overpower ΔT signal that was generated as IMs were installing M&TE in Rack six of the process protection set II.

6. FCV-3-171 was declared inoperable. The reactor was taken to mode 3.

7. Chemistry hold.

8. Maintained 72% power for maintenance to the A bank of the intermediate heaters.

9. Reduced power to remove #3 Htr Dr Tk Pmp 2C from service for repairs.

DATE....	COMPONENT.....	FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
04-11-85	2-FSV-62-74-A	VALVE IS OPEN WHILE IN P-AUTO	BAD RELAY KSIC	REPLACED RELAY KSIC	A528004
04-16--8	0-BATA-202	REPLACE OR REPAIR BRIDGE ARM COTTER PIN	CAUSE UNKNOWN	REPLACED COTTER PIN	A298448
04-22-85	1-LSV-62-118A	VERIFY THAT COIL INSTALLED IS A DC COIL	NO FAILURE	VERIFIED READING ON AC AND DC COILS	A520054
04-22-85	1-FCV-63-3	MOTOR THERMALS OUT	TERMINAL BLOCK HAD GROUND	REMOVED TERMINAL BLOCK AND CLEANED	A518457
04-24-85	0-CHGB-250-GH-T	CHECK RESISTORS AND CAPACITORS ON VITAL BATTERY CHARGER III AFTER RECHARGING BATTERY III	150 OHMS RESISTOR BURNED UP DURING RECHARGE	REPLACED 150 OHMS RESISTOR AND CHECKED FOR PROPER OPERATION	A538871
04-25-85	0-LOCL-13-612	ZONE 121 WILL NOT STAY CLEARED	PHOTO DETECTORS ON XS-13-165A & B WERE BAD	REPLACED DS-2 PHOTO DETECTORS	A553740
04-26-85	0-BCTB-32-25	ADJUST SPARE AIR COMPRESSOR B FROM 1A1-A 480V SHUTDOWN BOARD TRIP SETTING AND PLACE IN COMPARTMENT 3D ON 1A2-A SHUTDOWN BOARD	TRIP COIL BURNED UP ON COMPRESSOR A	ADJUSTED TRIP SETTINGS TO MATCH SETTINGS ON BAD BREAKER FOR COMPRESSOR A	A527519
04-26-85	0-BCTB-32-25	INVESTIGATE CAUSE OF COIL FAILURE ON 1A2-A 480V SHUTDOWN BOARD	COIL BURNED UP DUE TO DEFECTIVE COIL	INVESTIGATED AND FOUND TRIP COIL RECEIVED A VALID TRIP SIGNAL	A527520
04-27-85	2-FCV-74-16	INSPECT AND REPAIR LOOSE FLOW CONTROL VALVE LIMIT SWITCH	LOOSE MOUNTING BOLTS	TIGHTENED LOOSE MOUNTING BOLTS	A535210
04-27-85	0-LOCL-13-606	ALARM IN ON PANEL, ZONE	BAD PANEL CARD	REPLACE 2A 3D CARD	A528029

DATE....	COMPONENT.....	FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
		87			
04-28-85	2-FSV-70-153	1A CONDUIT 2V2557B IS BROKEN AT ENTRANCE OF BOX 1234 TRAIN B	CAUSE UNKNOWN	REMOVED BROKEN PORTION OF THREADS AND MADE CONDUIT BACK UP TO FITTING	A234561
04-29-85	1-FCV-43-64	VALVE WILL NOT SWITCH TO OPEN POSITION	LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH	A540510
04-29-85	2-FCV-63-84	REPAIR LIMIT SWITCH	ACTUATOR ARM OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH ACTUATOR ARM	A526405
05-02-85	1-PCV-68-334	BOTH RED AND GREEN LIGHTS ARE ON WHILE VALVE IN CLOSED POSITION	LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH	A528851
05-03-85	1-TS-13-198A	BROKEN THERMO SENSOR CONNECTED BY CONDUIT FE 4706	CAUSE OF FAILURE UNKNOWN	REPLACED THERMAL DETECTOR	A523865
05-04-85	2-FSV-63-70	LIMIT SWITCH WILL NOT CLEAR WHEN VALVE FULLY OPEN	LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH AND CHECKED FOR PROPER OPERATION	A300186
05-04-85	2-FSV-63-167	VALVE WILL NOT INDICATE OPEN POSITION	VALVE ACTUATOR ARM OUT OF ADJUSTMENT	ADJUSTED ACTUATOR ARM ON VALVE AND CHECKED FOR PROPER OPERATION	A518362
05-07-85	2-LOCL-13-630	PERFORM SI-234.7 ON ZONES 366, 367, 358, 359, 362, 363, 370, 371, 353 NEXT TIME UNIT 2 IS DOWN	NO FAILURE, SURVEILLANCE INSTRUCTION	PERFORMED SI-234.7 FOR LISTED ZONES	A532814
05-08-85	2-MVOP-3-47	REPLACE BROKEN TORQUE SWITCH	CAUSE UNKNOWN	REPLACED BROKEN TORQUE SWITCH	A542214

DATE....	COMPONENT.....	FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
05-09-85	1-BATB-82-UC-B	TORQUE THE END STRINGER BOLTS ON DIESEL GENERATOR BATTERY 1B-B	CAUSE UNKNOWN	TORQUED END STRINGER BOLTS	A538936
05-09-85	1-FCV-3-126-A	VALVE NOT OPERATING PROPERLY FROM HAND SWITCH IN CONTROL ROOM	BAD VALVE HANDWHEEL	REINSTALLED HANDWHEEL	A527566
05-10-85	1-ZS-1-22	LIGHT INDICATOR DOES NOT COME ON WHEN VALVE IS PARTIALLY STROKED	BAD LIGHT SOCKET	CHANGED INDICATING LIGHT SOCKET	A121544
05-10-85	0-CHR-250	REPLACE DEFECTIVE COMPONENTS ON VITAL BATTERY CHARGER I	CAUSE UNKNOWN	REPLACED 3 WIRES TO CAPACITOR BANK AND RELUGGED TWO EXISTING WIRES. INSTALLED AC FAILURE RELAY	A538934
05-12-85	1-FCV-62-85	RED AND GREEN LIGHTS ARE ON WITH HAND SWITCH IN OPEN POSITION	STEM BLOCK ROLLED OFF LIMITS	LINED STEM BLOCK UP AND CHECKED FOR PROPER OPERATION	A518456
05-14-85	1-CMP-311	ADJUST AGASTAT RELAY 62/173 TO ALLOW 4 MIN. TIME DELAY PICKUP	CAUSE UNKNOWN	CALIBRATED RELAY TO 4 MIN.	A126810
05-14-85	2-COMP-311	ADJUST AGASTAT RELAY 62/175 TO ALLOW 4 MIN. TIME DELAY ON PICKUP	CAUSE UNKNOWN	CALIBRATED TIME DELAY RELAY TO 4 MIN.	A126811
05-14-85	1-COMP-311	ADJUST AGASTAT RELAY 62/172 TO ALLOW 4 MIN. TIME DELAY ON PICKUP	CAUSE UNKNOWN	CALIBRATED TIME DELAY RELAY TO 4 MIN.	A126809
05-16-85	1-PCV-68-334	BOTH RED AND GREEN INDICATOR LIGHTS ARE ON	REED SWITCH OUT OF ADJUSTMENT	ADJUSTED REED SWITCH	A527582

DATE....	COMPONENT.....	FAILURE DESCRIPTION.....	CAUSE OF FAILURE.....	CORRECTIVE ACTION.....	MR.NO..
		WHILE VALVE IS CLOSED			
05-16-85	1-FCV-30-19	BOTH LIMIT LIGHTS ARE ON WHEN VALVE IS IN CLOSED POSITION	LIMIT SWITCH BRACKET WAS BENT AWAY FROM VALVE	STRAIGHTENED LIMIT SWITCH BRACKET	A531009
05-16-85	1-FCV-62-73	CLOSED LIMIT SWITCH LIGHT NOT OPERATING PROPERLY	LIMIT SWITCH OUT OF ADJUSTMENT	ADJUSTED LIMIT SWITCH AND LIGHT OPERATED PROPERLY	A528877
05-17-85	0-XFD-313-911	REPLACED FIRE DAMPER FUSIBLE LINKS	CAUSE UNKNOWN	REPLACED FUSIBLE LINKS	A526417
05-17-85	0-XFD-313-905	RESET ELECTRICALLY OPERATED FIRE DAMPER	BAD FUSIBLE LINKS	REPLACED FUSIBLE LINKS	A526410
05-17-85	0-XFD-313-904	RESET ELECTRICALLY OPERATED FIRE DAMPER	BAD FUSIBLE LINKS	REPLACED FUSIBLE LINKS	A526411
05-17-85	0-XFD-313-910	REPLACE FIRE DAMPER FUSIBLE LINKAGE ASSEMBLY	BAD FIRE DAMPER FUSIBLE LINKS	REPLACED FIRE DAMPER FUSIBLE LINKS	A526418
05-18-85	1-FCV-30-10	LIGHT INDICATING SWITCH IS BAD	CAUSE UNKNOWN	REPLACED INDICATING LAMP HOUSING	A527556
05-23-85	1-LT-63-119	CLEAN BLOCKAGE IN SENSE LINE TAP BETWEEN THE TANK TAP AND 1ST TEE	CAUSE UNKNOWN	INSTALLED TEMPERATURE HEAT TRACE AND INSULATED PIPE. OPENED HIGH SIDE VALVE AND VERIFIED H2O BLEEDING INSTEAD OF NITROGEN	A042628

36 records listed.

INSTRUMENT MAINTENANCE

Unit 1

Performed calibration (SI-196) of the UHI level switches. LS-87-21 and -23 were found out of tech spec tolerance. PRO 1-85-150 was written.

Steam flow transmitter FT-1-28A (Barton model 764) was replaced because of repeated instrument drift.

During shutdown for the ice outage both pressurizer spray valves were found inoperable. The positioner on PCV-68-340B had a broken drive arm and hub pin and the I/P was defective on PCV-68-340D. Both spray paths were repaired and calibrated.

Air was found in the sealed sense lines on both trains of RVLIS. Both trains were evacuated and refilled and pressure tested to ensure proper fill. Also the RVLIS transmitters were recalibrated.

Two auxiliary building isolations occurred due to spiking on radiation monitors. PROs 1-85-175 and -177 were initiated. Both appear to have been caused by spurious signals.

Workplan 11123 removed the pressure indicating controllers associated with auxiliary feedwater discharge pressure on both motor driven aux feedwater pumps. The loops were modified for pressure indication only since the pressure control valves were replaced with cavitating venture.

Workplan 11488 installed new controllers with proportional control only on the mini flow recirculation line on the main feedwater pumps. The controller removed had proportional control with reset.

Workplan 11463 recalibrated the pressure switches on the motor driven and turbine driven auxiliary pump suction pressure which controls condensate to ERCW switchover. It also set the time delay relays associated with the flow control valves.

Workplan 11494 implemented the installation of automatic control on the main feedwater bypass control valves for steam generator level control during low power operation. The controllers have been installed on a TACF. The TACF will be cleared during the next refueling outage when new controllers are installed under ECN 6193.

All of the steam generator auxiliary feedwater level indicating controllers were removed, bench aligned, calibrated, reinstalled, and the controll valves stroked to ensure operability when the unit returned to service.

INSTRUMENT MAINTENANCE (Cont.)

During the solder modification performed on Barton lot 2 transmitters, transmitter LT-3-51 would not calibrate within acceptable limits. A new transmitter was acquired, installed, calibrated and the loop declared operable.

During the ice outage the P-250 was removed from service for maintenance and diagnostic testing. All circuit cards and connectors were cleaned and memory capacity was upgraded.

UNIT 2

Performed calibration (SI-196.2) of the UHI level switches. One switch LS-87-22 was found out of tech spec tolerance. PRO-85-066 was written.

During startup control rod N11 fell in after being stepped out about twenty five steps. The unit was cooled down to mode 5 and the problem was isolated to burnt pins in the connector. Thermal lock-up occurred since the rod was on bottom during cooldown and the rod could not be moved until we heated up to about 300^{o}F and vibrated the rod with the lift coil. Prior to startup a rod drop test was performed on N11 to verify that it was within tech spec limits.

Train B containment hydrogen analyzer was found to have erratic oscillations during calibration using calibrated gas samples. The oscillations were minimized by purging the long sample lines with an increased flow rate of sample gas. Apparently pockets of different percent hydrogen sample gas were being trapped in the sample line and contaminating the sample we were using for calibration.

MR.COMP	U	FUNC	SYS	ADDRESS.	COMP DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A114456	1	LS	087	24	05/20/85	1-LS-087-24,REPLACE SW INTERNAL SCREW ON MICROSW IS STRIPPED	BAD SW. REPLACE SW
A121544	1	ZS	001	22	05/13/85	1-ZS-001-22,THIS MSIV GREEN LIGHT INDICATION DOES NOT INDICATE WHEN PARTIAL STROKING THE VLV.	EAST VALVE RM
A122983	2	LT	077	1	05/06/85	2-LT-077-1,"I" CHECK CALIB. OF XMITTER	XMTR OUT OF CAL. RECAL XMTR
A233463	2	FT	003	147	05/15/85	2-FT-003-147,VERIFY CALIB OF 2 FT 3 147 UP TO THE TEST POINT IN BACKUP CONTROL RM	NONE. VERFIED CAL ON XMTR
A233465	2	FT	003	170	05/16/85	2-FT-003-170,VERIFY CALIB OF 2 FT 3 170 UP TO THE TEST POINT IN BACKUP CONTROL RM	NONE. VERIFIED CAL AND TOUCHED UP CAL
A233466	2	FT	003	155	05/16/85	2-FT-003-155,VERIFY CALIB OF 2 FT 3 155 UP TO THE TEST POINT IN BACKUP CONTROL RM	NONE. RECAL XMTR
A233467	2	FT	003	163	05/15/85	2-FT-003-163,VERIFY CALIB OF 2 FT 3 163 UP TO THE TEST POINT IN BACKUP CONTROL RM	NONE. RECALIB XMTR
A237503	2	CON	363	1V7968A	05/10/85	2-CON-363-1V7968A,ON 2-FCV-1-29 - U2 WEST VLV RM-REPAIR THE FLEX PORTION OF THE BOX.SEE 45M826-21 DET E21	WEST VALVE RM.
A281784	1	LT	068	320	05/03/85	1-LT-068-320,CHECK CALIB. OF 1-LT-68-32	XMTR WAS FOUND SLIGHTLY OUT OF CALIB ON THE HIGH SIDE. RECALIB THE XMTR
A291778	1	PT	068	322	05/03/85	1-PT-068-322,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMITTER TO MAINTAIN QUALIFICATIONS PER SMI 1 317 23	NONE. HARDWIRED XMTR AND VERIFIED CALIB
A291784	1	LT	068	335	05/06/85	1-LT-068-335,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMITTER TO MAINTAIN QUALIFICATIONS PER SMI 1 317 23	NONE. HARDWIRED PEN PER SMI
A291797	1	LT	063	179	05/08/85	1-LT-063-179,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMITER TO MAINTAIN QUALIFICATIONS PER SMI 1 317 23	NONE. HARDWIRED PIN CONNECTOR
A294882	1	LS	087	24	05/13/85	1-LS-087-24,TUBING CONNECTIONS LEAKING DOWNSTREAM OF HIGH SIDE ISOL. VLV	BAD FITTING CONNECTIONS. REPLACED TUBING AND CONNECTIONS
A296750	1	TI	068	316	05/06/85	1-TI-068-316,CHECK TI-68-316 FOR PROPER OPERATION	RTD LEAD SHORTED TO CASE. REPAIRED TO CLEAR SHORTED LEAD
A298486	1	LT	003	51	05/30/85	1-LT-003-51,REPLACE LVL TRANSMITTER	NONE. REPLACED XMTR FOUND LOW IN CAL DURING SMI 1 317 23
A298487	2	LCV	003	171	05/09/85	2-LCV-003-171,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. VERIFIED TORQUE (RETORQUED) VERIFIED CAL AND STROKE AFTER TORQUEING
A298488	2	LCV	003	164	05/09/85	2-LCV-003-164,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. RETORQUED SCREWS TO PROPER SETTING-VERIFIED CAL AND OPERATION
A298489	2	LCV	003	156	05/09/85	2-LCV-003-156,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. RETORQUED SCREWS AND VERIFIED CAL AND PROPER OPERATION
A298490	2	LCV	003	148	05/09/85	2-LCV-003-148,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. VERIFIED RELAY SCREWS PROPERLY TORQUED AND VERIFIED STROKE

MR.COMP	U	FUNC	SYS	ADDRESS.	COMP DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A298491	1	LCV	003	172	05/13/85	1-LCV-003-172,TORQUE RELAY ASSEMBLY SCREWS AND RELAY MOUNTING BOLTS. UPDATE EQUIS	NONE. TORQUED SCREWS AND VERIFIED PROPER OPERATION
A298492	1	LCV	003	173	05/16/85	1-LCV-003-173-,TORQUE RELAY ASSEMBLY SCREWS AND RELAY MOUNTING BOLTS UPDATE EQUIS	FOUND A BAD CAPACITOR. REPLACED THE BAD CAPACITOR
A298493	1	LCV	003	174	05/14/85	1-LCV-003-174-,TORQUE RELAY ASSEMBLY SCREWS AND RELAY MOUNTING BOLTS. UPDATE EQUIS	NONE. RETORQUED SCREWS VERIFIED CAL AND STROKE
A298494	1	LCV	003	175	05/13/85	1-LCV-003-175-,TORQUE RELAY ASSEMBLY SCREWS AND RELAY MOUNTING BOLTS UPDATE EQUIS	NONE. RETORQUED VERIFIED PROPER OPERATION
A299256	1	PM	068	340H	05/03/85	1-PM-068-340H,REPAIR/REPLACE I/P MODULE	BLOCKAGE IN I/P REPLACED I/P AND CAL ALSO RESTROKE VLV
A299260	1	LT	063	179	05/07/85	1-LT-063-179,TOP OFF SENSE LINE FILL AND CALIB XMTR	FILLED LEG LOW. REFILLED XMTR LINE AND CALIB
A299261	1		068	RVLIS	05/14/85	1--068-RVLIS,TROUBLE SHOOT SYSTEM APPEARS TO BE A PROBLEM WITH UPPER PLENUM XMTRS	FILL LOW AND ZERO OFFSET. REFILLED AND ADJUSTED CAL
A299262	1	LT	068	369	05/21/85	1-LT-068-369,*I* DRN AND PURGE RVLIS HEAD SENSE LINES	NONE. DRAINED AND PURGED SENSE LINES BECAUSE OF THE UNIT BEING DOWN FOR MAINT RETURNED TO SERVICE PER SI 484
A299263	1	LT	068	36272	05/20/85	1-LT-068-36272,*I* DRN AND PURGE RVLIS UPPER PLENUM SENSE LINE	NONE. DRN AND PURGE SENSE LINE TO PUT INTO OEPRATION
A300779	1	PT	068	322	05/23/85	1-PT-068-322,PRESS TEST SENSE LINE FOR 1 PT 68 322	NONE. SMALL LEAK. FOUND 2 SMALL LEAKS REPAIRED AND RETURNED TO SERVICE
A301178	2	XA	055	1A	05/10/85	2-XA-055-1A,CHECK ANNUNICATOR CARD	PROBLEM WITH POWER AMP DRAWER #2
A301717	1	LS	087	22	05/29/85	1-LS-087-22,REPLACE LVL SW WITH A NEW ONE W/SAME MODEL AND RANGE	SW CONSISTANTLY OUT OF TOLERANCE. REPLACED SW
A301724	1	PCV	001	23	05/21/85	1-PCV-001-23,REPLACE REGULATOR REGULATOR IS DEFECTIVE	REGULATOR LEAKING AIR. REPLACED REGULATOR STROKED VLV BY OPERATIONS FROM THE CONTROL RM TO VERIFY PROPER OPERATION RETURNED TO SERVICE
A301890	1	FCV	003	35A	05/16/85	1-FCV-003-35A,STROKE VLV. PERFORM FUNCTIONAL TEST ON FCV	OUT OF CALIB AND ADJUSTMENT BECAUSE OF REPLACEMENT OF VLV STEM PACKING. RECALIB SET LEFT OFF PRESS REPLACED PILOT VLV ASSEMBLY STROKED VLV TO VERIFY SMOOTH OPERATION PER IMI 134 INSTRUCTIONS
A301892	1	FCV	003	90A	05/17/85	1-FCV-003-90A,STROKE VLV. PERFORM FUNCTIONAL ON FCV	VLV AND MODIFIER OUT OF CAL. RECAL MODIFIER AND RESTROKE VLV
A5184S4	1	PCV	068	340B	05/03/85	1-PCV-068-340B,SPRAY VLV IS STUCK OPEN;INVESTIGATE AND REPAIR	VLV OVERTRAVEL BROKE FEEDBACK ARM. RECAL I/P AND REPLACED FEEDBACK ARM AND CAM HUB
A526436	2	LCV	003	171	05/24/85	2-LCV-003-171,*I* LVL CONTROL VLV OPENS IN AUTO AND MANUAL WHEN IT HAS NO LVL DEMAND SIGNAL	AIR LEAK. TIGHTENED FITTINGS TO CORRECT PROBLEM

MR.COMP	U	FUNC	SYS	ADDRESS.	COMP DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A526458	2	LIC	003	175	05/21/85	2-LIC-003-175,LVL IND CONTROLLER IS NOT SHOWING ACTUAL LVL	LVL INDICATOR STUCK. FREED UP INDICATOR AND VERIFIED READING WITH LIKE INDICATOR
A527513	1	FI	068	29D	05/07/85	1-FI-068-29D,FLOW IND IS SHOWING 45% FLOW WHEN ACTUAL FLOW IS ZERO	NONE. CHECKED XMTR AND VERIFIED XMTR WAS SEEING A DELTA P BECAUSE OF THE UNIT BEING DOWN FOR MAINT AND THE REACTOR COOLANT PMPS NOT RUNNING.AFTER RUNNING THE RC PMPS XMTR CAME BACK TO CORRECT READING
A527548	1	LI	003	107	05/09/85	1-LI-003-107,LVL B INDICATING GREATER THAN 100% WHILE ACTUAL LVL IS 30%	PNL ISOL VLVS FOUND CLOSED AND THE LOSS OF BACKFILL. BACKFILLED TRANSMITTER-VLVED IN AND RETURNED TO SERVICE
A528041	2	FT	030	242	05/02/85	2-FT-030-242,FLOW DOES NOT APPEAR TO BE INDICATING CORRECT	AIR IN SENSE LINES SQUARE. ROOT CONVERTER OUT OF CAL HI XMTR OUT OF CAL LO. BLED SENSE LINES RECAL XMTR AND SQ RT CONVERTER
A528316	2		099	TRB	05/03/85	2--099-TRB,RT B WILL NOT CLOSE DUE TO HI FLUX TRIP ON 1 OF 2 IR EXCORE DETECTOS	WIRE CUP LODGED BETWEEN PIN 43 & 44 OF A407 CARD. REMVOED CLIP AND FUNCTIONALLY CHECKED
A528609	2	PIC	001	13	05/09/85	2-PIC-001-13,*I* CHECK OUT CONTROLS ON VLV. VLV WILL NOT STROKE	MECH PROBLEM WITH THE VLV NOT THE CONTROLLER. VERIFIED PROPER OPERATION OF CONTROLLER-MECH PROBLEM WITH VLV-VLV REPAIRED BY MECH MAINT SECTION.RECHECKED CALIB OF I/P-STROKED VLV FROM I/P AND CONTROL RM RETURNED TO SERVICE
A528865	2		085	N11	05/13/85	2--085-N11,SHUTDOWN BANK D ROD N11 WILL NOT WITHDRAW	BURNED PENS IN CONNECTOR. REPLACED PENS IN CONNECTOR AND VERIFIED PROPER OPERATION
A528885	1	LI	077	410	05/29/85	1-LI-077-410,*I* RECALIB LVL INDICATION RUN CALIB LOOP	LOOSE SCREWS ON TERMINAL BOARD. TIGHTENED SCREWS ON TERM BOARD AND VERIFIED PROPER OPERATION
A530380	2	TI	068	316	05/29/85	2-TI-068-316,CHECK CALIBRATION ON INSTRUMENT. INSTRUMENT IS READING LOW WHICH IS CAUSING ANN.	NONE. VERIFIED CAL ON LOOP COMPONENTS AS REQ'D
A531002	1	TR	068	1P001	05/28/85	1-TR-068-1P001,RED PEN FOR LOOP 1 RCS HOT LEG TEMP IS READING APPROX 25 DEG HIGHER THAN OTHER 3 LOOPS HOT LEGS INDICATORS	RECORDER OUT OF CAL. RECAL RECORDER
A531054	1	LI	003	107	05/23/85	1-LI-003-107,*I* DEVIATING FROM THE OTHER TWO BY > 5%	AIR IN XMTR SENSE LINES. BACKFILLED SENSE LINES
A531096	1	FI	068	48D	05/30/85	1-FI-068-48D,FLOW INDICATOR FI-68-48D IS DRIFTING BETWEEN 40% AND 60% FOW WITH #3 RCP OFF	LO SIDE VLV CLOSED. BLED DOWN XMTR

MR.COMP	U	FUNC	SYS	ADDRESS.	COMP DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A535239	2	FCV	003	84	05/07/85	2-FCV-003-84,*I* VLV WILL NOT STROKE FROM MCR WHEN USE THE CONTROLLER ON 2 M 3	CONTROLLER OUT OF BALANCE. BALANCED TIMER AND CONTROLLER
A541565	1	LI	003	94	05/09/85	1-LI-003-94,LVL IND IS INDICATING 28% WHILE ACTUAL LVL IS APPROX 13%	AIR IN XMTR SENSE LINE. BACKFILLED SENSE LINES
A541574	2	LIC	003	148	05/11/85	2-LIC-003-148,WHEN INDICATED LVL SHOWS >46% LVL AND FCV 3 148 IN AUTO-FI 3 147 SHOWS >OR=100 GPM FLOW.	CONTROLLER RESET ACTION OUT OF ADJUSTMENT. CHANGED RESET VLVS CHECKED FOR PROPER OPERATION RETURNED TO SERVICE
A541576	2	LIC	003	171	05/11/85	2-LIC-003-171,WHEN INDICATED LVL SHOWS >46% AND FCV 3 171 IN AUTO AND CLOSED FI 3 170 SHOWS APPROX 150 GPM FLOW. WHEN PLACED IN MAN & MAN BYPASS FLOW DECREASED TOZ	BAD CONTROLLER. REPLACED CONTROLLER
A541955	1	LT	003	175	05/06/85	1-LT-3-175-POLARITY OF FIELD WIRING TO XMTR APPEARS TO BE INCORRECT	POSITIVE LEAD BROKEN OFF ON XMTR. REPLACED POSITIVE AND NEGATIVE LEADS FROM TERMINAL BLOCK TO XMTR
A541956	1	LT	003	171	05/04/85	1-LT-003-171,0.0825 VOLTS WERE OBSERVED ACROSS TP7-1 L 11B WITH LEAD LIFTED AT XMTR	NONE. NONE/CHECKED CIRCUIT NO PROBLEM FOUND
A545805	1	PCV	001	12	05/21/85	1-PCV-001-12,AIR REGULATOR BLOWING AIR	AIR REGULATOR BLOWING AIR. REPLACED REGULATOR STROKED VLV BY OPERATIONS FROM CONTROL RM TO VERIFY PROPER OPERATION RETURNED TO SERVICE
A545811	1	PCV	001	31	05/21/85	1-PCV-001-31,VLV POSITION IS LEAKING BADLY. REPAIR OR REPLACE	BAD GASKET AND AIR REGULATOR. REPLACED GASKET AND AIR REGULATOR AND VERIFIED VLV STROKE
A545814	1	PCV	001	6	05/21/85	1-PCV-001-6,POSITIONER LEAKING AIR BADLY AND AIR REGULATOR FOR POSITIONER AND VLV IS LEAKING	BAD GASKET AND AIR REGULATOR. REPLACED GASKET AND AIR REGULATOR AND VERIFIED PROPER OPERATION
A548768	1	LT	063	178	05/02/85	1-LT-063-178,HARD WIRE PIN CONNECTOR FOR BARTON LOT 2 XMITTER TO MAINTAIN QUALIFICATIONS PER SMI 1 317 23	NONE. HARDWIRED PIN CONNECTOR REPLACED O RINGS AND RETORQUED COVER
A548807	2	PCV	068	3400	05/07/85	2-PCV-068-3400,*I* CHECK STROKE OF VLV ENSURE ROLLER CANNOT EXCEED END OF CAM	NONE. CHECKED STROKE OF VLV AND VERIFIED ROLLER DID NOT GET CLOSE TO RUNNING OFF CAM LEFT IN SERVICE
A564828	1	LM	003	148A	05/01/85	1-LM-003-148A,INSPECT I/P INTERNAL MECHANISM AND COIL ASSEMBLY FOR ALIGNMENT AND TIGHTNESS	NONE. TIGHTENED SCREWS TO PROPER TIGHTNESS FOR QUAL LIFE
A564829	1	LM	003	156A	05/01/85	1-LM-003-156A,INSPECT I/P INTERNAL MECHANISM AND COIL ASSEBMLY FOR ALIGNMENT AND TIGHTNESS	NONE. TIGHTENED SCREWS FOR QUALIFIED LIFE
A564830	0	LM	003	164A	05/01/85	0-LM-003-164A,INSPECT I/P INTERNAL MECHANISM AND COIL ASSEMBLY FOR ALIGNMENT AND TIGHTNESS	NONE. CHECKING FOR PROPER TORQUE. TIGHTENED RELAY MOUNTING SCREWS TO PROPER TORQUE
A564840	1	LCV	003	148	05/13/85	1-LCV-003-148-,TORQUE RELAY ASSEMBLY SCREWS AND RELAY MOUNTING BOLTS. UPDATE EQUIS	NONE. REPLACED RELAY WITH HI TEMP UNIT TORQUED AND VERFIED PROPER OPERATION

MR.COMP	U	FUNC	SYS	ADDRESS.	COMP DATE....	DESCRIPTION.....	CORRECTIVE ACTION.....
A564841	1	LCV	003	156	05/15/85	1-LCV-003-156,REPLACE RELAY SUB ASSEMBLY ON VLV POSITIONER	NONE. REPLACED RELAY TO SATISIFY 1E REQMTS
A564842	1	LCV	003	164	05/13/85	1-LCV-003-164,REPLACE RELAY SUB ASSEMBLY ON VLV POSITIONER WITH HIGH TEMP MODEL FROM POWER STORES	NONE. REPLACED WITH HI TEMP MODEL TORQUE AND VERIFY CAL
A564843	1	LCV	003	171	05/13/85	1-LCV-003-171,REPLACE RELAY SUB ASSEMBLY ON VLV POSITIONER	NONE. REPLACED RELAY WITH HI TEMP MODEL AND TORQUED AND VERIFIED OPERATION
A564844	1	LCV	003	172	05/02/85	1-LCV-003-172,REPLACE RELAY SUB ASSEMBLY ON VLV POSITIONER	NONE. REPLACED RELAY WITH HI TEMP UNIT
A564845	1	LCV	003	173	05/02/85	1-LCV-003-173,REPLACE RELAY SUB ASSEMBLY ON VLV POSITIONER	NONE. RELAY SUB ASSEMBLY CHANGED TO HIGH TEMP UNIT.CHANGED TO HI TEMP UNIT.NONE. REPLACED RELAY WITH HI TEMP UNIT.
A564853	2	LCV	003	172	05/08/85	2-LCV-003-172,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. TORQUED SCREWS AND VERIFIED PROPER OPERATION
A564854	2	LCV	003	173	05/08/85	2-LCV-003-173,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. TORQUED SCREWS AND VERIFIED PROPER OPERATION
A564855	2	LCV	003	174	05/08/85	2-LCV-003-174-,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. TORQUED SCREWS AND VERIFIED PROPER OPERATION
A564856	2	LCV	003	175	05/08/85	2-LCV-003-175,TORQUE RELAY ASSEMBLY SCREWS AND MOUNTING BOLTS	NONE. TORQUED SCREWS TO PROPER TIGHTNESS AND VERIFIED PROPER OPERATION
A564857	1	LCV	062	118	05/28/85	1-LCV-062-118,VLV DOES NOT CONTROL PROPERLY IN P AUTO	VLV DOESN'T CONTROL PROPERLY IN P-AUTO.NONE. TOOK VOLTAGE READING ALL OK PER ENGR AND RETURNED TO SERVICE

73 records listed.

Mechanical Maintenance Section

May 1985

Unit 0

1) Performed the monthly diesel general inspection.

2) Replace the mechanical seals on the 1B-B, 2A-A, and 2B-B boric acid transfer pumps per workplan 11528.

3) Installed new bolting on the "A" boric acid filter per TACF.

4) Replaced the filter and unplugged the inlet line on the "A" boric acid filter.

5) Plugged 3 tubes in the "B" auxiliary boiler.

Unit 1

1) Inspected the #2 and #3 seals on reactor coolant pump #4.

2) Completed servicing the ice condenser.

3) Replaced the plug seat and gasket in 1-LCV-3-156.

4) Lapped the seats in 1-LCV-3-164.

5) Changed out the rotor on the 1-A low pressure turbine.

6) Changed out the "A" reactor coolant drain tank pump.

7) Replaced solenoid valve on 1-LCV-62-118 and 1-FCV-62-74.

8) Completed sweeping and venting the steam generators.

9) Plugged 3 tubes in the "A" spent fuel pit heat exchanger.

10) 1-VLV-67-561A was leaking through and badly galled so it was replaced per work plan 11597.

11) Repaired the galled stem and backseat on 1-FCV-5-42.

12) Changes some extraction steam line at 1-FCV-5-97 from carbon steel to stainless steel due to erosion problems.

13) Repaired the stator bars in the main generator to eliminate the hydrogen leak.

(Continued)

Unit 2

1) Replaced the inboard bearing in the 2-A condenser vacuum pump.

2) Repaired the crack on the pipe at the floor mounted spring cam by 2-LCV-6-106 A&B.

3) Replaced the broken stems on 2-FCV-3-33 and 2-FCV-3-100.

4) Welded on a scab plate at 2-LCV-6-106B.

5) Changed the bearings in the buss duct cooling fan.

6) Replaced the air side seal oil pump.

7) Welded a brace and realigned the 2B stator cooling water pump.

8) Replaced the regulator diaphram on the 2-PCV-1-12.

9) Repaired a Furmanite job on 2-FCV-1-291.

SUMMARY OF WORK COMPLETED

MODIFICATIONS

MAY 1985

NUREG 0588

ECN 5746 - Component Cooling System Pump Motor Replacement

The final pump motor was changed out this period.

ECN 5824 - MOV Operator Replacement

All twelve remaining operators have been replaced.

ECN 5883 - Pressure Switch/Flow Switch Replacement

Final tie-in for the flow switch replacement is in progress.

ECN 5970 - MOV Operator Replacement

One remaining operator will be replaced when the unit is off residual heat removal.

ECN 5971 - MOV Operator Replacement

All three operators have been replaced

ECN 6207 - Conax Connectors

The final connector was installed during this timeframe.

ECN 6278 - ABGTS and EGTS Heater Controller Replacement

The moisture sensor was jumpered out this month. Two rubber hoses will be replaced the first week in June.

ECN 6398 - Limit Switch Replacement

All ten limit switches were replaced by relays in this period

ECN 6404 - Replace Limit Switches

Three limit switches were replaced in System 63 by this ECN.

ECN 6408 - Replace Gears in MOV Operator

Two operators were qualified by replacing the motors and gears.

ECN 6409 - Replace Limit Switches

Two limit switches were replaced in System 65 by this ECN.

All identified mechanical activities have been completed. Inservice leak checks will be performed on unit 1 during startup.

Appendix R

ECN 5484 - Emergency Lights

Work is in progress to install new lights.

ECN 6209 - Wrap Fire Protection Blanket Around Conduit

Field work is complete.

ECN 6235 - Reroute Various Cables

The eight workplans are in the approval cycle. Two additional workplans are being written.

ECN 6305 - Elevation 714 Fire Barrier

Workplan has been prepared and placed in the approval cycle.

ECN 6319 - Fire Protection Piping

A large amount of material was delivered to the warehouse and is being received. Prefabrication work on hangers began at the end of the month. Outages for piping reroutes, etc., are planned for early June. Three more workplans were placed in the approval cycle.

ECN 6316 - Seal for Penetrations

Sealing work is complete.

Other Items

DCR 1739 - Install VAACS Computer

System is functional.

DCR L2108 - Flammable Liquid Storage Building

This project is complete, and the building is in use.

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

The prefabrication of piping assemblies is complete on one train and continues on the second train for the auxiliary feedwater/boric acid area coolers. Installation is planned for mid-June. Installation work continued in several areas.

ECN 5024 - Install Steam Generator Lay-Up Water System

Unit 1 insulation is complete.

ECNs 5111 and 5503 - Office and Power Stores Facility

Punchlist items for elevation 694 and the exterior are near completion. Elevation 694 is scheduled to be transferred to NUC PR on June 10.

Other Items (Cont.)

ECN 5119 - Install Radiation Monitor Cables in Conduit

Final tie-ins are underway.

ECN 5194 - Iodine Monitor

We are waiting for the Power Block reconfiguration to tie in the two doors into the security system.

ECN 5200 - Postaccident Sampling Facility

Rework of postmodification test deficiencies is in hold for the final design of one level loop.

ECN 5202 - Fifth Diesel Generator

Permanent power tie-in will be made in June. This project is complete with the exception of pouring two sections of missile protection over discharge piping and a splash pad for the overflow structure. Backfilling will be done after the completion of these two items.

ECN 5237 - Laundry Facility

Remaining work is on hold until the last wall is built.

ECN 5373 - Condensate Demineralizer Air Compressor

The vendor representative for startup testing is scheduled to be here June 3. This project is complete with the exception of the installation of the motor coupling and minor repairs.

ECN 5599 - Fifth Vital Battery

This project is complete with the exception of the remaining Appendix R work, which is continuing. The protective coating will also be applied.

ECNs 5609 and 5610 - Makeup Water Treatment Plant

This project is almost complete. Pre-op tests are essentially complete. The interface work is near completion as well. Most of the materials for remaining punchlist items have arrived. The septic tank and demineralizer modification work are being held up by OE.

ECN 5613 - Installation of Emergency Lights

Work has commenced to install emergency lights in the service building.

ECN 5645 - Steam Generator Blowdown

The sample line from the new system was rerouted through the existing heat exchanger to protect the radiation monitor.

Other Items (Cont.)

ECN 5657 - Installation of Isolation Valves, Moisture Separator Reheaters

Approximately 150 valves were installed on unit 1 during the ice outage, which completes unit 1 work. Repair of insulation remains incomplete.

ECN 5664 - Replace Relays in Wells Fargo Alarms

Remaining work has been restarted

ECN 5795 - Field Services Building

Fire detection system work is in hold for materials.

ECN 5841 - Hot Machine Shop

All work is complete with the exception the hallway on elevation 706. This delay is due to Power Stores and will be completed when they move to their new facility. We are still awaiting drawings on the monorail to be added to the decontamination room.

ECN 5878 - CDWE, Modification to Moisture Separator

Preoutage work continued on this project.

ECNs 5932 and 5935 - Power Block Modifications

This project is approximately 85 percent complete. Some cable pulling and equipment setting have been accomplished. We are still awaiting NRC approval of the security plan so the remaining work can be completed.

ECN 5938 - Feedwater Heater Replacement

Structural modifications for installation of monorails continued. The monorail electric hoist system was received. Two heaters have been hydrostatically tested. Reworking of several pipe supports continues.

ECN 5990 - CDWE, Install Divert Valve

Preoutage work continued on this project.

ECN 6057 - Cable Tray Covers

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

ECN 6182 - Cooling Tower Repairs

Repair of ice damage that occurred in January 1985 will be done under a new ECN.

Other Items (Continued)

ECN 6202 - Component Cooling System Surge Tank Instrumentation

This work is scheduled to resume in early June.

ECN 6204 - Electrical Penetration Overcurrent Protection

Fuse replacement and fuse block installation are complete. We are waiting for a Technical Specification change to place the circuits in operation.

ECNs 6238 and 6356 - ERCW Pumping Station Piping Erosion

All piping has been replaced. Insulation reinstallation remains incomplete.

ECN 6342 - Health Physics Calibration Facility

This project is near completion. The installation of two doors, air conditioning lines, and a control box remains.

ECN 6351 - CDWE, Demineralized Water Supply

Workplan preparation is just starting.

ECN 6362 - CDWE, Install Sample Connections

Workplan preparation is just starting.

Training Buildings

The two structures have been constructed, and roofing work is being done at the present time.

Miscellaneous Yard Work

Work remaining includes the removal of overhead power lines and buildings, paving, and landscaping. This work is in progress.

Completed Modifications - Information Obtained from Printout

As we stated last month, in the future we plan to summarize the information obtained from the attached printout. We did not receive this printout until June 6; therefore, because of time constraints, we were unable to do this.

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

June 14, 1985

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

Gentlemen:

SEQUOYAH NUCLEAR PLANT - MONTHLY OPERATING REPORT - MAY 1985

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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 20555 (10 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
P. O. Box 355
Pittsburgh, PA 15230 (1 copy)

Mr. K. M. Jenison, NRC Inspector
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