


VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 84-03

APPROVED BY:



STATION MANAGER

8405020308 840331
PDR ADDCK 05000280
R PDR

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OPERATING DATA REPORT

DOCKET NO. 50-280
 DATE 05 APR 84
 COMPLETED BY V. H. Jones
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	30184 TO 33184
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	847.5 NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A
10. REASONS FOR RESTRICTIONS, IF ANY	N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	2184.0	98832.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	508.0	1818.7	60911.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	9.3	3774.5
14. HOURS GENERATOR ON-LINE	501.0	1781.0	59648.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1187047.7	4213335.1	139139639.4
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	337015.0	1359440.0	44579283.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	367491.0	1291367.0	42369103.0
19. UNIT SERVICE FACTOR	67.3 %	81.5 %	60.4 %
20. UNIT AVAILABILITY FACTOR	67.3 %	81.5 %	64.1 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	63.7%	76.3%	55.3%
22. UNIT CAPACITY FACTOR (USING DER NET)	62.7%	75.0%	54.4%
23. UNIT FORCED OUTAGE RATE	0.0	2.2 %	9.1 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS / (TYPE, DATE, AND DURATION OF EACH)	04-06-84 09-28-84		

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP	04-15-84
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)	FORECAST ACHIEVED

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-281
 DATE 05 APR 84
 COMPLETED BY V. H. Jones
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	30184 TO 33184
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	847.5
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A
10. REASONS FOR RESTRICTIONS, IF ANY	N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	2184.0	95712.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	370.0	1786.2	54357.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	23.8	328.1
14. HOURS GENERATOR ON-LINE	370.0	1777.1	59353.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	892024.8	4267433.5	138983306.4
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	285250.0	1368470.0	45163329.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	270614.0	1298460.0	42805520.0
19. UNIT SERVICE FACTOR	49.7 %	81.4 %	62.0 %
20. UNIT AVAILABILITY FACTOR	49.7 %	81.4 %	62.0 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	46.9 %	76.7 %	57.7 %
22. UNIT CAPACITY FACTOR (USING DER NET)	46.2 %	75.5 %	56.8 %
23. UNIT FORCED OUTAGE RATE	33.5 %	15.7 %	9.3 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)			

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP	
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)	

04-09-84
 FORECAST ACHIEVED

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March, 1984

DOCKET NO. 50-280
 UNIT NAME Surry 1
 DATE 04-04-84
 COMPLETED BY V. H. Jones
 TELEPHONE 804-357-3184

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
84-4	03-11-84	S	243.0	H	1				Continuation of snubber outage which commenced on 02-24-84.

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-Other (Explain)

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

⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March, 1984

DOCKET NO. 50-281
 UNIT NAME Surry II
 DATE 04-04-84
 COMPLETED BY V. H. Jones
 TELEPHONE 804-859-6150

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
84-10	03-06-84	S	0	H	1				Power was reduced to 86% power (680 MW's) for load following.
84-11	03-16-84	S	0	H	1				Power was reduced to 52% power (400 MW's) for load following.
84-12	03-16-84	F	374.0	A	3	84-005 84-006			Reactor trip caused by "B" RCP tripping. The failure was in the electrical penetration and leads were connected to a spare penetration. The scheduled snubber outage was started early due to the plant tripping.

¹ F: Forced
S: Scheduled

² Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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-Other (Explain)

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

⁵ Exhibit I - Same Source

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: March, 1984

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NONE DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL						

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 2

MONTH: March, 1984

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NONE DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL						

DOCKET NO 50-280
UNIT SURRY I
DATE 4-1-84
COMPLETED BY V. H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MARCH 84

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	17	755.9
2	0.0	18	755.7
3	0.0	19	754.8
4	0.0	20	759.1
5	0.0	21	756.8
6	0.0	22	757.7
7	0.0	23	757.4
8	0.0	24	758.1
9	0.0	25	753.7
10	0.0	26	755.9
11	271.1	27	748.9
12	709.9	28	751.8
13	753.7	29	753.7
14	758.0	30	750.8
15	756.8	31	750.4
16	742.0		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 %/° LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

DOCKET NO 50-281
UNIT SURRY II
DATE 4-1-84
COMPLETED BY V. H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MARCH 84

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	737.9	17	0.0
2	738.9	18	0.0
3	738.3	19	0.0
4	740.5	20	0.0
5	736.6	21	0.0
6	723.4	22	0.0
7	734.5	23	0.0
8	733.2	24	0.0
9	734.0	25	0.0
10	734.2	26	0.0
11	736.7	27	0.0
12	735.4	28	0.0
13	738.2	29	0.0
14	737.5	30	0.0
15	736.1	31	0.0
16	240.2		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 % LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

SUMMARY OF OPERATING EXPERIENCE

March, 1984

Listed below in chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

Unit 1

03-01-84	0000	This reporting period begins with the unit at cold shutdown and at mid-nozzle with head evacuation in progress.
03-05-84	0510	Secured head evacuation, filling reactor coolant system.
03-06-84	0456	Completed RCS fill and vent.
03-07-84	0051	Bubble in pressurizer.
03-09-84	1303	RCS > 200°F.
	2020	RCS > 350°F, 450 psig.
03-09-84	0621	RCS at HSD.
03-10-84	2002	Reactor critical.
03-11-84	0306	Main generator on the line, commenced 3%/hr. power increase.
03-12-84	0745	Unit at 100% power (780 MW's).
	2300	Failed open C & D moisture separator drain receiver LCV'S, generator MW'S increased to 790 MW'S.
03-31-84	2400	This reporting period ends with the unit at 100% power.

Unit 2

03-01-84	0000	This reporting period begins with the unit at 100% power (780 MW's).
03-06-84	0037	Commenced power reduction for load following.
	0115	Stopped ramp at 86% power (680 MW's).
	0341	Commenced power increase.
	0446	Unit at 100% power (780 MW's).

03-16-84	0009	Commenced power reduction for load following.
	0249	Stopped ramp at 52% power (400 MW's).
	0415	Commenced power increase.
	0710	Unit at 100% power (780 MW's).
	0957	Reactor trip caused by "B" RCP tripping, commenced snubber outage.
	1200	RCS borated, commenced cooldown.
	1447	RCS < 350°F, 450 psig.
	2110	RCS > 200°F.
03-17-84	1335	RCS degassed.
	2334	RCS at mid-nozzle.
03-27-84	0324	Commenced filling and venting RCS.
03-28-84	0513	Completed RCS fill and vent.
03-30-84	1212	Bubble established in the pressurizer.
03-31-84	2400	This reporting period ends with the RCS at 170°F, 325 psig, bubble in the pressurizer.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

March, 1984

The Nuclear Regulatory Commission issued, on January 31, 1984, Amendment Nos. 94 and 93 to the Operating License for Surry Power Station, Units Nos. 1 and 2, respectively.

These amendments revise the Technical Specifications to remove eight (8) snubbers from auxiliary feedwater system and emergency diesel generator exhaust piping from Table 4.17-1. In addition, Specification 6.4.B.1.b is revised to add the Supervisor of Health Physics as an administrative controller of keys to locked barricades at radiation areas.

The Nuclear Regulatory Commission issued, on February 24, 1984 Amendment Nos. 95 and 94 to the Operating License for Surry Power Station, Units 1 and 2, respectively.

These amendments revise the Technical Specifications to change the minimum Boron Injection Tank boron concentration from 11.5% to 0% and to change the Boric Acid System boron concentration from 11.5% to 7%.

FACILITY CHANGES REQUIRING
NRC APPROVAL

March, 1984

NONE DURING THIS REPORTING PERIOD.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

March, 1984

		<u>UNIT</u>
<u>DC 80-96</u>	<u>Reactor Vessel Level</u> This design change installed redundant microprocessor-based monitoring systems to monitor Reactor Vessel Level. The system utilizes differential pressure measuring transmitters which measure water level and relative void content of the circulating primary coolant system fluid and thus provides direct readings of the reactor vessel level.	2
	<u>Summary of Safety Analysis</u> This modification provides redundant safety-related indication of reactor vessel water level thus providing an indication of inadequate core cooling.	
<u>DC 81-33</u>	<u>VCT Redundant Indication</u> This design change added a redundant Volume Control Tank level indicator to the control room. The second level indicator in the control room will enable the operator to manually control the related valves if the existing loop malfunctions in any way.	1
	<u>Summary of Safety Analysis</u> The modification enhances the safe operation of the plant because it increases the reliability of the Chemical and Volume Control System.	

**FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL**

March, 1984

UNIT

DC 82-19

4 KV Underfrequency Testing Modification

1 & 2

The RCP motor electrical supply is monitored by underfrequency and undervoltage relays. An underfrequency relay is installed on each phase of the electrical supply bus. These relays provide rapid sensing of a system overload. The Technical Specifications required a monthly test to be performed on the logic circuitry. The circuitry was modified to allow this testing.

This design change installed an auxiliary relay in the logic circuitry of train A and B. It also installed a three position test selector switch to be used to select the train to be tested.

Summary of Safety Analysis

The installation of test switches for RCP underfrequency logic test does not create a safety problem. This modification will not effect the operation of any safety related system. The functional characteristics of the RCP logic circuitry remain unchanged.

DC 83-29

Boron Concentration Reduction Modification

1 & 2

This design change diluted the dedicated Boric Acid Storage Tanks, isolated the Boron Injection Tank recirculation lines and responded/recalibrated the level instrumentation of the Boric Acid Storage Tanks.

Summary of Safety Analysis

A detailed operational review and safety analysis was conducted and it was concluded that the plant can continue to be operated in a safe and efficient manner following the change.

The concentration reduction offers significant benefits and safety features. The concentration reductions in the BIT and Boric Acid System will increase operational reliability, reduce maintenance costs and decrease personnel radiation exposure.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

March, 1984

UNIT

DC 84-02

HP Heater Drain Piping Modifications

1

Operation of the HP Heater Drain Pump Suction Isolation Valves was very hazardous. This design change modified the suction piping as follows:

1. Relocated Suction Line Expansion Joint
2. Redesign and Upgrade Expansion Joints
3. Reorient Isolation Valve Operators
4. Add Bypass Around Suction Isolation Valves
5. Relocate Spring Supports

Additionally, existing platforms were modified and new sump pumps were installed.

Summary of Safety Analysis

The modifications were made to improve the operator safety considerations related to the isolation of the H.P. Heater Drain Pumps. These modifications will reduce the hazards associated with pump isolation activities.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

March, 1984

UNIT

DC 84-03 HP Heater Drain Piping Modifications

2

Operation of the HP Heater Drain Pump Suction Isolation Valves was very hazardous. This design change modified the suction piping as follows:

1. Relocated Suction Line Expansion Joint
2. Redesign and Upgrade Expansion Joints
3. Reorient Isolation Valve Operators
4. Add Bypass Around Suction Isolation Valves
5. Relocate Spring Supports

Additionally, existing platforms were modified and new sump pumps were installed.

Summary of Safety Analysis

The modifications were made to improve the operator safety considerations related to the isolation of the H.P. Heater Drain Pumps. These modifications will reduce the hazards associated with pump isolation activities.

TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

March, 1984

NONE DURING THIS REPORTING PERIOD.

TESTS AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

March, 1984

NONE DURING THIS REPORTING PERIOD.

OTHER CHANGES, TESTS AND EXPERIMENTS

March, 1984

NONE DURING THIS REPORTING PERIOD.

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
CHEMISTRY REPORT

March 19 84

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	1.91E0	2.32E-2	1.11E0	1.72E0	2.06E-2	2.76E-1
Suspended Solids, ppm	0.00	0.00	0.00	0.00	0.00	0.00
Gross Tritium, $\mu\text{Ci/ml}$	9.68E-2	1.43E-2	4.89E-2	2.11E-1	7.07E-2	1.47E-1
Iodine ¹³¹ , $\mu\text{Ci/ml}$	1.35E-1	3.22E-3	5.38E-2	3.25E-4	8.37E-5	1.66E-4
I ¹³¹ / I ¹³³	0.71	0.15	0.42	0.31	0.07	0.15
Hydrogen, cc/kg	33.6	14.1(A)	26.5	39.3	1.9(C)	19.9(C)
Lithium, ppm	2.65	0.71	1.11	2.24(C)	0.78	1.27
Boron-10, ppm*	362	54	139	308	122	181
Oxygen, (D.O.), ppm	1.000(B)	<0.005	0.064	1.700(C)	<0.005	0.369
Chloride, ppm	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
pH @ 25°C	6.90	5.83	6.43	6.66	5.68	6.18

* Boron-10 = Total Boron x 0.196

NON-RADIOACTIVE CHEMICAL
RELEASES, POUNDS
T.S. 4.13.A.6

Phosphate	-	Boron	826
Sulfate	-	Chromate	0.0
50% NaOH	-	Chlorine	0.0

REMARKS: (A) - 3/12/84 Unit 1 ramping during startup (B) Unit 1 shutdown 2/24/84 spring outage (C) Unit 2 shutdown for maintenance on 3/16/84 degassing completed 3/17/84 (D) Lithium additions Unit 1: 3/6 650gms. 3/7 1240gms. 3/10 762gms. 3/11 300gms. Cation bed placed in service Unit 1 for lithium removal: 3/6, 3/7, 3/14, 3/15, 3/17, 3/18, 3/20, 3/21, 3/25, 3/28. (E) Lithium additions Unit 2: 3/3 100gms. 3/7 195gms. 3/16 2150gms. 3/30 3260gms. Cation bed placed in service for Li removal: 3/8, 3/11, 3/12, 3/14 (F) The level of these chemicals should produce no adverse environmental impact.

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

March, 1984

NONE DURING THIS REPORTING PERIOD.

FUEL HANDLING

UNIT # 1

March, 1984

[illegible]

March, 1984

22

PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE PSAR

March, 1984

<u>No.</u>	<u>Unit</u>	<u>Title</u>	<u>Date</u>
AP 20	1	Main Control Room Inaccessibility	3-08-84 (Change)
OP 8.3.1	1	Placing Boric Acid In Operation	3-08-84 (New)
OP 8.3.2	1	1-CH-P-2B to Recirc. 1-CH-TK-1B	3-03-84 (New)
OP 8.3.3	1	1-CH-P-2B to Recirc. 1-CH-TK-1B	3-08-84 (New)
OP 8.3.4	1	1-CH-P-2C to Recirc. 1-CH-TK-1B	3-08-84 (New)
OP 8.3.5	1	Boric Acid Auto Makeup	3-08-84 (New)
OP 8.3.6	1	Boric Acid Dilution	3-08-84 (New)
OP 8.3.7	1	Boric Acid Alternate Dilute	3-08-84 (New)
OP 8.3.8	1	Boric Acid Borate	3-08-84 (New)
OP 8.3.9	1	Boric Acid Manual Makeup	3-08-84 (New)
OP 7.8.1	1	Filling the Boron Injection Tank 1-SI-TK-2 After Safety Injection Initiation	3-08-84 (Delete)
OP 7.8.2	1	Filling the Boron Injection Tank 1-SI-SK-2 After Tank Maintenance	3-08-84 (Delete)
OP 8.3	1	Boron Concentration Control	3-08-84 (Delete)

DESCRIPTION OF PERIODIC TESTS WHICH WERE NOT
COMPLETED WITHIN THE TIME LIMITS
SPECIFIED IN TECHNICAL SPECIFICATIONS

March, 1984

NONE DURING THIS REPORTING PERIOD.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

MECHANICAL MAINTENANCE

March, 1984

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 1

DEPT: MECH

MR

03/01/84	CH	PUMP	1-CH-P-2D	LEAK AT SWAGelok FITTING	INSTALLED NEW GAGE	402271200
03/02/84	MS	VALVE	1-MS-SV-110A	LEAKING BLOWING STEAM	REPLACED GASKET	312081337
03/03/84	FW	PUMP	1-FW-P-3A	ADJUST PACKING	ADJUSTED PACKING GLAND	403030100
03/04/84	CH	VALVE	1-CH-303	REPACK VALVE	REPLACED PACKING	310271200
03/04/84	CH	VALVE	1-CH-404	VALVE LEAK THROUGH	REINSTALL OLD PIPE CAP	310230451
03/05/84	CH	PCV	PCV-1160	VALVE LEAKS BY	LAPPED+CHECKED BLUE CONTACT	305140330
03/05/84	GN	VALVE	1-GN-4	CANT GET NITROG TO FLOW	REPLACED WITH NEW VALVE	305180715
03/05/84	VS	FAN	VS-F-60C	DAMPER FAILED	INSPECTED FOUND NO BROKEN BRACKETS	309300756
03/05/84	VS	FAN	VS-F-60A	FAN DAMPER LINKAGE	INSP.+FOUND NO BROKEN GASKET	309300800
03/05/84	VA	VALVE	1-MS-132	PACKING LEAK	REPACKED VALVE	403011401
03/05/84	MS	VALVE	1-MS-97	PACKING LEAK	REPACKED VALVE	403011400
03/05/84	MS	VALVE	1-MS-130	PACKING LEAK	REPACKED VALVE	402290815
03/05/84	MS	VALVE	1-MS-98	PACKING LEAK	REPLACED VALVE	402290800
03/05/84	MS	VALVE	1-MS-168	PACKING LEAK	REPACKED VALVE	402290839
03/05/84	MS	VALVE	1-MS-129	PACKING LEAK	REPACKED VALVE	402290828
03/05/84	MS	VALVE	1-MS-131	PACKING LEAK	REPACKED VALVE	402290824
03/05/84	MS	VALVE	1-MS-99	PACKING LEAK	REPACKED VALVE	402281359
03/05/84	MS	VALVE	1-MS-96	PACKING LEAK	REPACKED VALVE	402281405
03/06/84	CH	ISOL	1-CH-LCV-1460B	REPACK	REPACKED VALVE	402250444
03/07/84	SI	VALVE	1-SI-243	REMOVE CAP	REPLACED GASKET	402250509
03/07/84	SI	VALVE	1-SI-242	REMOVE CAP	REPLACED GASKET	402250504
03/07/84	SI	VALVE	1-SI-241	REMOVE CAP	REPLACED GASKET	402250458
03/07/84	CH	FT	1-CH-162	PACKING LEAK	ADJUST PACKING	402192243
03/07/84	CH	BYPASS	1-CH-291	PACKING LEAK	ADJUSTED PACKING	402192215
03/07/84	CV	PUMP	1-CV-P-1A	REPLACE PUMP+BELT	REPLACED PUMP	402290330
03/07/84	CH	MOV	1-CH-MOV-1275C	PACKING LEAK	ADJUST PACKING	402182033
03/07/84	CH	ISOL	1-CH-298	PACKING LEAK 1 DROP/MIN	ADJUST PACKING	402190522
03/07/84	CH	MOV	1-CH-MOV-1286C	REPACK	ADJUST PACKING	402181726
03/07/84	CH	PI	1-CH-PI-1105R	PI FLANGE LEAKS	BOLTS LOOSE	402181623
03/07/84	CH	MOV	1-CH-MOV-1275A	PACKING LEAK	ADJUST PACKING	402182032
03/07/84	CH	MOV	1-CH-MOV-1286R	PACKING LEAK	ADJUST PACKING	402181742
03/07/84	CH	PUMP	1-CH-272	PACKING LEAK	ADJUSTED PACKING	402181730
03/07/84	CH	VALVE	1-CH-273	PACKING LEAK	ADJUST PACKING	402181727
03/07/84	FW	VALVE	1-FW-45	BODY TO BONNET LEAK	TEMPORARY REPAIR	402090325
03/07/84	CH	VALV=	RV-1-203	VALVE LEAKS BY	FAILED AS FOUND OVERHAUL	401240300
03/07/84	GN	VALVE	1-GN-15	CK VLV LEAKS THROUGH	INSPECTED VALVE	306231347
03/07/84	GN	VALVE	1-GN-8	VLV LEAKS	INSPECTED VALVE	306231344
03/07/84	GN	VALVE	1-GN-2	VLV LEAKS	REWORKED VALVE	306231342
03/07/84	CH	VALVE	1-CH-82	REPAIR LEAKAGE	CHANGE BONNET-DIAPHRAGM	306161817
03/07/84	CH	VALVE	1-CH-419	VALVE HANDLE BROKEN OFF	INSTALLED NEW HANDWHEEL	312170807

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 1

DEPT: MECH

RETSEVDT	SYS COMP	MARKNO	SUMMARY	WKPERF	MR
03/09/84	CH VALVE	1-CH-409	VALVE LEAKS THROUGH 1-CH-409	INSTALL PIPE CAP	310230459
03/09/84	SI VALVE	1-SI-194	VALVE LEAKS THROUGH 1-SI-194	INSTALL 3/4 PIPE CAP	310230453
03/09/84	VS PUMP	1-VS-P-1C	REPLACE IMPELLER-SHAFT	INSTALLED NEW IMPELLER-SHAFT	308231432
03/09/84	CH FT	1-CH-161	PACKING LEAK	ADJUST PACKING	402192246
03/09/84	SI VALVE	1-SI-338	REPACK	ADJUSTED PACKING	402290903
03/09/84	SI PUMP	1-SI-PT-1947	VALVE LEAKS	TIGHTENED GAUGE	403011159
03/09/84	CH VALVE	1-CH-306	ADJUST PACKING	ADJUSTED PACKING	403021119
03/09/84	IA VALVE	1-IA-343	LEAKY FITTING	REPLACED FITTING	403021129
03/09/84	SI PI	1-SI-PI-100	PI CONNECTION LEAKS	TIGHTENED FITTING	402201736
03/09/84	CH VALVE	1-CH-228	REATTACH HANDWHEEL	TIGHTENED ALLEN SCREWS	402282156
03/09/84	CH VALVE	1-CH-VLV-73	VALVE HANDWHEEL SPINS FREELY	TIGHTENED ALLEN SCREW	402280045
03/09/84	RS HATCH	N/A	EQUIPMENT HATCH SEALS LEAKS EXCESS	TIGHTENED STRONG BACK	403060605
03/09/84	VS FAN	1-VS-F-60E	DOOR LATCH BROKE	INSTALLED LATCH	403042052
03/09/84	VS FAN	1-VS-F-60B	DOOR LATCH BROKE	DOOR LATCH WORKING PROPERLY	403042050
03/09/84	VS FAN	1-VS-F-60C	ACTUATING ARM DOESN'T WORK	FIX DAMPER	403042048
03/11/84	RC VALVE	PCV-1456	VALVE HAS NON-QUALIF CAGE + PLUG	REPLACE PLUGGED AND CAGE-STEM ASSY	307211535
03/11/84	MS VALVE	1-MS-141	VALVE STEM BROKEN	REPLACED VALVE 1-MS-141	305020959
03/11/84	RC PCV	PCV-1455C	VALVE LEAKS BY	VALVE LEAKS BY	310281832
03/12/84	CH VALVE	1-CH-336	PACKING LEAK ADJUST	STOPPED LEAK	403101350
03/12/84	FW VALVE	1-FW-HCV-155A	BOTTOM FLANGE LEAKING	REPAIRED FLANGE LEAK	402150330

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

MECHANICAL MAINTENANCE

March, 1984

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT: 2

DEPT: MECH

RETSEVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
03/15/84	CH	PUMP	2-CH-E-5A	LUBE OIL COOLER LEAKS	REPLACED COOLER	403111054 310170539 310071623 301200342
03/19/84	CC	VALVE	2-CC-333	VALVE LEAKS THROUGH	VALVE CAP NO EVIDENT OF LEAKING	301200342
03/20/84	SI	VALVE	2-SI-341	ADJUST PACKING	ADJUSTED PACKING	312041117
03/20/84	SI	VALVE	2-SI-340	ADJUST PACKING	ADJUSTED PACKING	312041116
03/20/84	SI	VALVE	2-SI-339	ADJUST PACKING	ADJUSTED PACKING	312041115
03/20/84	SI	VALVE	2-SI-338	ADJUST PACKING	ADJUSTED PACKING	312041114
03/20/84	SI	VALVE	2-SI-336	ADJUST PACKING	ADJUSTED PACKING	312041113
03/20/84	SI	VALVE	2-SI-337	PACKING LEAK	TIGHTENED PACKING	312041112
03/21/84	CN	VALV	2-CN-69	VALVE LEAKS BY	LAPPED IN VALVE TO 100 PERCENTBLUE	309201033
03/23/84	RC	VALVE	HCV-2556C	PACKING LEAK	REPACK VALVE	401151855
03/23/84	SI	VALVE	2-SI-26	PACKING LEAK ADJUST	REPLACED PUMP	312270506
03/23/84	CV	PUMP	2-CV-P-1A	TEST AND REPAIR AS NECESSARY	TESTED PUMP AS FOUND SAT	403211054
03/23/84	CH	VALVE	2-CH-159	REPACK	REPACK VALVE	402290920
03/23/84	CH	VALVE	2-CH-PCV-2113B	PCV-2113B LEAKS BY	REPLACED DIAPHRAGM	402291520
03/23/84	CH	VALVAE	2-CH-416	LEAKS THRU	REPLACED DIAPHRAGM	310092337
03/23/84	CH	VALVE	2-CH-12	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	111122158
03/23/84	CH	VALVE	2-CH-35	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	111122156
03/23/84	CH	VALVE	2-CH-37	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	111122155
03/23/84	CH	VALVE	2-CH-44	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	111122149
03/23/84	SI	VALVE	2-SI-154	ADJUST PACKING	TIGHTENED PACKING GLAND	312041111
03/23/84	RC	ITCV	ITCV-2556B	BODY TO BONNET LEAK	RENEWED BONNET GASKET	312121220
03/23/84	BD	VALVE	2-BD-155	VALVE LEAKS BY	REPAIRED GATE WITH WELD+LAPPED	312120202
03/23/84	CV	VALVE	2-CV-35	REPLACE VLV OR UNPLUG LINE	UNPLUG VALVE	312092207
03/24/84	CH	ORIFICE	2-CH-2200C	VALVE LEAKS BY	LAPPED VALVE REPLACED GASKET	403090314
03/25/84	RC	SNUBBER	2-RC-HSS-150	FILL RESERVOIR TO 100 PERCENT	FILLED RESERVOIR	403210758
03/25/84	RC	SNUBBER	2-RC-HSS-154	OIR TO 100 PERCENT	FILLED RESERVOIR	403210755
03/25/84	HSS	SNUBBER	N/A	MAKE 132 BOLTS	MANUFACTURED 132 3/8"X5 STUDS	403241615
03/25/84	HSS	SNUBBER	2-HSS-WGCB-6A	FILL LEVEL TO 100 PERCENT	FILLED RESERVOIR SFN54	403210748
03/25/84	HSS	SNUBBER	2-HSS-WGCB-6B	FILL LEVEL TO 100 PERCENT	FILL RESERVOIR SF1154	403210747
03/25/84	HSS	SNUBBER	2-RH-HSS-10	FILL RESERVOIR LEV TO 100 PERCENT	FILL RESERVOIR	403210746
03/25/84	HSS	SNUBBER	2-HSS-WAFD-141	FILL RESERVOIR TO 100 PERCENT	FILL RESERVOIR	403210745
03/25/84	RC	VALVE	2-RC-55	PACKING LEAK	REPACKED VLV WITH 4 RINGS CARLOCK98	403181421
03/25/84	RC	VALVE	2-RC-88	PACKING LEAK	ADJUSTED PACKING	403171244
03/25/84	SI	ELEMENT	2-SI-FE-2943	FLOW ELEMENT IS LEAKING	REPLACED FLANGE GASKET	403191543
03/25/84	RC	VALVE	2-RC-80	REPLACE GASKET	REPLACED FLANGE GASKET	403191304

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 2

DEPT: MECH

RET	SERV	DT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
03/25/84	CH		VALVE		FCV-CH-2160	BODY TO BONNET LEAK	REPLACED GASKETS	401031040
03/25/84	NS		STM TRAP		2-MS-T-5	FURMANITED RETURN TO ORIGINAL	REPLACED FLANGES	310310735
03/25/84	MS		VALVE		TV-MS-201C	PACKING LEAK ON ARM	REPLACED GASKET ON FLANGE	311200215
03/25/84	NS		VALVE		2-MS-272	VALVE LEAKS THROUGH	CLEANED SEAT AND REPACKED	310121603
03/26/84	CH		VALVE		FCV-CH-2122	REPACK VALVE	REPACK VALVE	401031041
03/26/84	MS		VALVE		NEV-MS-201C	REINSTALL STEM GUARD	REINSTALLED STEM GUARD	401051310
03/26/84	CH		FLANGE		2-CH-P-1C	INSTALL NEW RIG ON C PUMP	INSTALLED+REMOVED VENT RIG	403251600

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

March, 1984

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT: 1

DEPT: ELEC

RETSEVDT	SYS COMP	MARKNO	SUMMARY	WKPERF	MR
03/01/84	SI SOV	HCV-1850A	REPLACE SOV	REPLACED SOV+AND CYCLE VLV SAT	401101231
03/01/84	SI SOV	HCV-1851A	REPLACE SOV	REPLACED SOV+CYCLE VALVE SAT	401101230
03/01/84	SI SOV	HCV-1853A	REPLACE SOV	REPLACED SOV+CYCLED VLV SAT	401101132
03/01/84	EPL	1-EPL-14J2	SET BREAKER 14J2	SET UP 14J2 BREAKER TO SPECS	402281426
03/01/84	RC SOV	HCV-1557C	AIR LEAK ON SOV	REPLACED DEFECTIVE SOLENOID	312180513
03/01/84	SI SOV	HCV-1851B	REPAIR FLEXIBLE CONDUIT	REPAIRED FLEXIBLE CONDUIT	311140845
03/01/84	RC VALV	HCV-1898	VALVE WILL NOT OPEN	REPLACED SOLENOID+LIMIT SW	309200610
03/02/84	VG VALVE	1-VG-TV-109A	VALVE WILL NOT OPEN	CYCLED VALVE	402240240
03/02/84	SI SOV	HCV-1851B	REPLACE SOV	REPLACED SOV AS PER EMP-C-SOV-38	401101134
03/02/84	SI SOV	HCV-1852B	REPLACE SOV	REPLACED SOV VALVE CYCLED SAT	401101133
03/02/84	SI SOV	HCV-1850F	REPLACE SOV	REPLACED SOLENOID VLV+CYCLED VLV SAT	401101139
03/02/84	SI SOV	HCV-1851C	REPLACE SOV	REPLACED SOV+CYCLED VLV SAT	401101138
03/02/84	SI SOV	HCV-1850D	REPLACE SOV	REPLACED SOV AS PER EMP-C-SOV-38	401101136
03/02/84	SI SOV	HCV-1850C	REPLACE SOV	REPLACED SOV AS PER EMP-C-SOV-38	401101135
03/03/84	BS BARRIER		PENETRATION NOT SEALED	PENETRATION WAS SEALED+CK SAT	402220311
03/03/84	EPL BKR	1-EPL-14H13	BREAKER STOPS BROKEN	REPAIRED BROKEN PIN	403020715
03/03/84	VS FAN	1-VS-P-58B	FAN STOPPED	FAN RESTARTED SAT	403012328
03/03/84	RS LIGHT	1-RS-P-1A	ROTATION LIGHT ON WITH PMP OFF	ROTATION LIGHT FOUND OFF	306272025
03/03/84	SI MOV	MOV-1860A	BRIDGE AND MEGGER MOV-1860A	BRIDGED+MEGGERED MOV-1860A SAT	308261658
03/05/84	RC PUMP	1-RC-P-1A	ARLM B-C-7 LOCKED IN	REPLACED SENSING ELEMENT	306082255
03/07/84	EPL MOV	1-EPL-ST-160	PERFORM FT-160	PERFORMED ST 160 AS PER TEMP	402221251
03/07/84	CH MOV	1-CH-MOV-1287C	PACKING LEAK	ADJUSTED PACKING	402182038
03/08/84	SI MOV	1-SI-1867C	VLV WILL NOT CYCLE	REPAIRED PINCHED WIRE IN LIMIT SW	403081443
03/09/84	CS BREAKER	14H5	CLOSED BREAKER	FOUND TRIP FUSES MISSING REPLACED	403091823
03/09/84	SI VALVE	1-SI-1853C	HCV-1853C WILL NOT OPEN	FOUND AIR ISOLATED TO VALVE	403090710
03/09/84	SI MOV	1-SI-1890A	TORQUE SWITCH NOT OPERATING	RESET TORQUE SWITCH SETTING	403051922
03/09/84	FW MOV	1-FW-MOV-151D	LIMIT SWITCH DOES NOT MAKEUP	CYCLED VALVE	402251534
03/09/84	EPL BUS	1H1	GREEN AND RED LIGHT ARE ON BKR	CORRECTED WIRING	308290724
03/26/84	IA VALVE	1-IA-SOV-114	NO INDICATION LIGHTS	OPERATION OF LITES CK SAT	402227109

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

March, 1984

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 2

DEPT: ELEC

RETSEVDT	SYS	COMP	MARENO	SUMMARY	WKPERF	NR
03/19/84	RH	PUMP	2-RH-P-1A+1B	INSPECT MOTORS	CK MTR FOR LEAK+LOW OIL LEV	403150813
03/20/84	FW	PUMP	2-FW-P-1A1+1A2	CLEAN MOTR AND SCREENS	CLEANED MOTOR+SCREENS COMPLETE	403170831
03/20/84	FW	PUMP	2-FW-P-1B1+1B2	CLEAN MOTORS AND SCREENS	CLEANED MOTOR+SCREENS COMPLETE	403170832
03/20/84	SI	HCV	HCV-2850B	REPLACE SOLENOID	REPLACED SOV	401141218
03/20/84	CC	RELAQY	TV-CC-209B	RELAY BUSSES WHEN CLOSING	CHECKED OPERATION OF RELAY	308121359
03/21/84	EPH	BREAKER	24H1	SET BREAKER IAW ADMIN 101	COMPLETED PMS CHECKED SAT	403170910
03/21/84	VS	DAMPER	2-VS-F-60D	WORK WITH MECHANICS	DAMPER TEST SAT	403011105
03/21/84	RI	ALARM	K-F-7	ALARM INOPERABLE	CHANGED CARD	403150015
03/21/84	VS	DAMPER	2-VS-F-60A	WORK WITH MECHANICS	DAMPER TEST SAT	403011104
03/22/84	EE	CABLE	2-4	REPLACE CABLE	CHECKED II-IV SOLA TRANSFORMER	308281500
03/22/84	EE	CABLE	2-1	REPLACE CABLE	CHECKED TRANSFORMER WIRING	308290900
03/23/84	CH	MOV	2-CH-LLV-2115B	LOAD CHECK MOV	CHECK MTR AMPS CHECKED SAT	403211333
03/23/84	RI	ANNUN	N/A	ANNUN ON G PNL NOT MAKING CONTACT	CARDS PUSHED IN	403210840
03/23/84	SI	SOV	2-SI-SOV-2850F	REPLACE SOV	INSTALLED NEW TYPE SOV	403200911
03/23/84	SI	SOV	2-SI-SOV-2851C	REPLACE SOV	INSTALLED NEW TYPE SOV	403200910
03/23/84	RI	ALARMS	A-E	PANELS A-E BROKE	GROUND ON SYSTEM	403191331
03/23/84	EPH	BREAKER	25B3	TEST ALL PROTECTIVE RELAYS	MEGGER RELAY TEST CUBICLE	403191429
03/23/84	SI	SOV	2-SI-SOV-2850E	REPLACE SOV	INSTALLED NEW TYPE SOV	403200900
03/23/84	SI	SOV	2-SI-SOV-2853C	REPLACE SOV	REPLACED SOV WITH NEW TYPE SOV	403200909
03/23/84	SI	SOV	2-SI-SOV-2850D	REPLACE SOV	INSTALL NEW SOV+CYCLE VLV	403200908
03/23/84	SI	SOV	2-SI-SOV-2850C	REPLACE SOV	REPLACED SOV CONTROL RM CYCLE VLV	403200907
03/23/84	SI	SOV	2-SI-SOV-2851B	REPLACE SOV	INSTALL NEW SOV+CYCLE VALVE	403200906
03/23/84	SI	SOV	2-SI-SOV-2853B	REPLACE SOV	REPLACED SOV CONTROL RM CYCLE VLV	403200905
03/23/84	SI	SOV	2-SI-SOV-2853A	REPLACE SOV	REPLACED SOV TEST SAT	403200904
03/23/84	SI	SOV	2-SI-SOV-2850A	REPLACE SOV	REPLACE SOV TEST SAT	403200903
03/23/84	SI	SOV	2-SI-SOV-2851A	REPLACE SOV	REPLACE SOV TEST SAT	403200902
03/23/84	RI	ALARM	2-RIS-A-E	A-E ALARM SPURIOUSLY	GROUND ON SYSTEM	403090725
03/23/84	CH	VALVE	2-CH-HCV-2200C	DISCONNECT+RECONNECT SWITCHES	REMOVED+REINSTALLED LIMIT SWITCHES	403151301
03/23/84	CH	VALVE	2-CH-HCV-2200B	DISCONNECT+RECONNECT SWITCHES	REMOVED+REINSTALLED LIMIT SWITCHES	403151259
03/24/84	CH	HT	2-CH-HT-2B1-11	REPAIR OR REPLACE HEAT TAPE	REPLACED DEFECTIVE HEAT TAPE	403230820
03/24/84	EPDC	INVERTER	2-III-VB	REPAIR INVERTER	REPLACED DEFECTIVE INDUCTOR	401280946
03/25/84	RI	ANNUN	KAL	ANNUNCIATOR GROUND IN	GROUND ON SYSTEM	402021909
03/25/84	RI	ANNUN	FD5/FD6	SPURIOUS ALARMS	GROUND FOUND IN SYSTEM	402021431
03/25/84	SS	VALVE	2-SS-HCV-202C	VALVE WILL NOT OPEN	REPLACED DEFECTIVE COIL	403202200
03/25/84	EPH	BREAKER	24J1	SET BREAKER IAW ADMIN 101	SET+TESTED BKR CHECKED SAT	403170914
03/25/84	RC	VALVE	2-RC-HCV-2556B	ELECT DISCON+RECON VALVE	DISCON+RECON FOR MECH VLV TESTED	402291518

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 2

DEPT: ELEC

RETSEVDT	SYS COMP	HARKNO	SUMMARY	WKPERF	MR
03/26/84	RS	MOTOR	ELECT DISCON+RECON	RECONNECTED TESTED SAT	402281308
03/26/84	FW	VALVE 2-FW-MOV-251B	DISCONNECT AND RECONNECT VALVE	ADJUSTED LIMITS RECONNECTED LOAD	403140646
03/26/84	EPH	BREAKER 24H11	SET BREAKER IAW ADMIN 101	PERFORMED PMS ON BKR SAT	403170911
03/26/84	CH	VALVE 2-CH-FCV-2113A	CHECK LIMIT SWITCHES	ADJUSTED LIMITS CHECKED SAT	403242206
03/26/84	CH	VALVE 2-CH-TV-2204	VALVE INDICATES INTERMEDIATE	ADJUSTED LIMITS CHECKED SAT	403242150
03/26/84	EPH	BREAKER 24J8	SET BREAKER	TESTED BREAKER SAT AS PER RS-CB-E/R1	312220808

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

March, 1984

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT: 1

DEPT: INST

RETSEVDT	SYS COMP	MARKNO	SUMMARY	WKPERF	MR	
03/01/84	NI	RANGE	N-31	INSTRUMENT ERRATIC	MEGGERED CABLE FOUND DEFECTIVE CONN	311220431
03/01/84	CH	INDICATO	TI-I-140	INDICATOR FAILED HIGH	CHECKED FIELD WIRING	310210206
03/01/84	CS	INSTR	LT-CS-101	CALIBRATE	LOW LEVEL ALARM COMING IN	308281132
03/01/84	EPDC	METER	1B2	CALIBRATE METER	REPAIRED METER	312271200
03/01/84	CH	PUMP	1-CH-P-2D	GAGE LINE LEAKING	WELDING LEAK FIXED BY WELDERS	402222359
03/02/84	RH	PI	1-RH-PI-1600B	RECAL/REPLACE GAUGE	REPLACED GAUGE AND SNURRER	402290355
03/03/84	RC	INDIC	1-RCS-461	CH. INDICATES 3 PCT LESS	REPLACED TRANSMITTER	402061045
03/03/84	NI	MONITOR	N-41	INVESTIGATE FLUCTUATIONS IN N-4	REMOVED SIGNAL CABLES	308251649
03/03/84	RH	INDICATR	RI-RHS-162	MONITOR IS SPIKING	REPLACED MONITOR+PERF CAL 053	312160420
03/03/84	RC	VALVE	PCV-1455A	VALVE NOT CONTROLLING PRESSURE	FOUND DOME GASKET LEAKING	312152015
03/05/84	NI	DETECTOR	NI-4	ALARM G-C-4 IN+OUT CONTINUOUSLY	REPLACED COMPARATOR PC CARD	401241445
03/05/84	RC	ELEMENT	1-RC-TE-412B	ERRATIC READING	REPLACED LOOSE LUG	402111111
03/05/84	RH	B-G-6		LOW FLOW ALARM	REPLACED XMTR	403010500
03/07/84	MS	VALVE	1-MS-RV-101C	WILL NOT INDICATE OPEN	REPAIRED ACTUATOR ARM+ADJUSTED	403031531
03/07/84	RC	VMS	1-RC-VMS-100A	LEFT BAR FLASHING	READJUSTED ZERO	403010640
03/07/84	RC	METERS	1-RC-100A+B+C	REMOVE+REPLACE ACCELEROMETERS	REMOVE ACCELEROMETERS	402250045
03/07/84	LM	TRANSMIT	PI-LM-101A	DISCONNECT TRANSMIT	DISCONNECT+CONNECTED XMTR	310201000
03/09/84	CH	PUMP	1-CH-PI-1110	LOW PRESSURE	CAL OF GAUGE PERFORMED WITH PT40	403060700
03/10/84	RH	MONITOR	1-RH-159/160	MONITOR HAS FILTER FAULT	CLEARED FILTER FAULT+REPLACED FILTER	403100337
03/11/84	RC	MONITOR	1-RC-159/160	MONITOR HAS FILTER FAULT	REMOVED FILTER	403110720

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
CUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

March, 1984

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 2

DEPT: INST

RETSEVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	NR
03/16/84	CH	GUAGE	2-CH-PI-2151	GUAGE ERRATIC	REPLACE GAUGE	403142300
03/19/84	SI	VALVE	2-SI-9	WELD CAP ON LINE	WELDED PIPE CAP	403161900
03/19/84	SI	ACCUM	2-SI-PI-925	PI DRIFTS	REPLACED TRANSHITTER	402091120
03/20/84	FW	INST	2-FW-22	FITTING LEAK	REPLACED NUT AND FERRULES	401272000
03/20/84	RH	GAGE	2-RH-PI-2600A	RECALIBRATE GAGE	RECALIBRATED GAUGE	403171150
03/21/84	NI	RANGE	2-NI-SR-31R	WILL NOT PROVIDE AUDIO	SWITCH NOT PROPERLY IN POSITION	403192327
03/21/84	RC	INST	"A"	CHECK OUT T-REF JUNCTION TEMP	REPLACED BOARD	401191616
03/21/84	RC	RVLIS	2-RC-TRAIN R	WILL NOT RESET	REPLACED POWER SUPPLY	402141238
03/22/84	NI	MONITOR	2-NI-36	NI 36 LEVELED OFF 5*1+ "10	SET COMPENSATION VOLTAGE	403171021
03/22/84	RM	MONITOR	2-RM-SS-213	ALERT IS IN	PERFORMED ALARM CIRCUIT CALIBRATION	403190707
03/25/84	SI	INSTR	2-SI-LI-924	LEVEL INDICATOR	RAN FULL SCALE INDICATOR	403200459
03/25/84	SI	INSTR	2-SI-LI-928	LEVEL INDICATOR	ADJUSTED INDICATOR	403200506
03/25/84	RC	SWITCH	N/A	TH+TC TEST SWITCHES ARE ERRATIC	REPLACED TESST SW PERFORMED PT 2.1	403130748
03/25/84	RC	PANEL	HC-1	ALARM SETPOINT INOP	PERFORM PT 2.1 FOUND NO PROBLEM	403071825
03/25/84	FW	METER	2-FW-PI-200C	METER INDICATES FLOW	PERFORM TRANSMITTER CALIBRATION	402151134

HEALTH PHYSICS

March, 1984

There was no single release of radioactivity or radiation exposure specifically associated with an outage that accounted for more than 10% of the allowable annual values in 10CFT20.

PROCEDURE DEVIATIONS REVIEWED BY STATION NUCLEAR
SAFETY AND OPERATING COMMITTEE AFTER TIME LIMITS
SPECIFIED IN TECHNICAL SPECIFICATIONS

March, 1984

<u>No.</u>	<u>Unit</u>	<u>Title</u>	<u>Date Deviated</u>	<u>Reviewed by SNSOC</u>
PT 25.2	1	Testing of Service Water Valves to Recirculate Spray Heat Exchangers	02-18-84	03-08-84

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

April 16, 1984

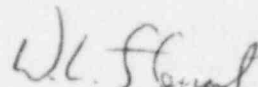
Mr. N. M. Haller, Director
Office of Management and Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 223
NO/JDH:acm
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Dear Mr. Haller:

Enclosed is the Monthly Operating Report for Surry Power Station Unit Nos. 1 and 2 for the month of March, 1984.

Very truly yours,


W. L. Stewart

Enclosure (3 copies)

cc: Mr. R. C. DeYoung, Director (12 copies)
Office of Inspection and Enforcement

Mr. James P. O'Reilly (1 copy)
Regional Administrator
Region II

Mr. D. J. Burke
NRC Resident Inspector
Surry Power Station

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