

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 79-02

FEBRUARY, 1979

APPROVED:

W. L. Stewart
MANAGER

7903190196

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OPERATING TA REPORT

DOCKET NO 50 280
DATE 02 MAR 79
COMPLETED BY O.J. COSTELLO
TELEPHONE 804 357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	279
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	847.5
5. DESIGN ELECTRICAL RATING (NET MWE)	822
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

NOTES

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	672.0	1416.0	54240.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	672.0	1375.1	37075.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	672.0	1374.7	36233.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1641544.0	3343269.0	83699222.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	525810.0	1072115.0	27379698.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	499641.0	1018154.0	25999873.0
19. UNIT SERVICE FACTOR	100.0 %	97.1 %	66.8 %
20. UNIT AVAILABILITY FACTOR	100.0 %	97.1 %	66.8 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	95.9 %	92.8 %	61.8 %
22. UNIT CAPACITY FACTOR (USING DER NET)	90.5 %	87.5 %	58.3 %
23. UNIT FORCED OUTAGE RATE	0.0 %	2.9 %	15.9 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	S/G INSPECTION 6/2/79 -3 WEEKS		

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP N/A

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)

FORECAST ACHIEVED

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50 291
DATE 05 MAR 79
COMPLETED BY O.J. COSTELLO
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME SURRY UNIT 2
2. REPORTING PERIOD 279
3. LICENSED THERMAL POWER (MWT) 2441
4. NAMEPLATE RATING (GROSS MWE) 847.5
5. DESIGN ELECTRICAL RATING (NET MWE) 822
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE) 911
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

NOTES

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	672.0	1415.0	51120.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	75.4	919.4	34499.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	74.9	919.9	33996.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	158309.0	1957906.0	79194083.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	54220.0	644305.0	25868844.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	51232.0	611521.0	24536605.0
19. UNIT SERVICE FACTOR	11.1 %	57.8 %	66.5 %
20. UNIT AVAILABILITY FACTOR	11.1 %	57.9 %	66.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	9.8 %	55.7 %	61.9 %
22. UNIT CAPACITY FACTOR (USING DER NET)	9.3 %	52.5 %	58.4 %
23. UNIT FORCED OUTAGE RATE	0.0 %	0.0 %	21.0 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	STEAM GENERATOR REPLACEMENT 6 MONTHS 1-25-79		

25. IF SHUT DOWN AT END OF REPORT PERIOD. 73179
ESTIMATE DATE OF STARTUP
26. UNITS IN TEST STATUS FORECAST ACHIEVED
(PRIOR TO COMMERCIAL OPERATION)

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

DOCKET NO. 50-291

DATE 22 FEB 79

COMPLETED BY C.J. COSTELLO

TELEPHONE 904-357-3124

CORRECTED COPY

Feb 27, 1979

OPERATING STATUS

1. UNIT NAME	SUNNY UNIT 2		
2. REPORTING PERIOD	0001 1-1-79 TO 2400 1-31-79		
3. LICENSED THERMAL POWER (MWT)	2441		
4. NAMEPLATE RATING GROSS MWE)	247.5	NOTES	
5. DESIGN ELECTRICAL RATING (NET MWE)	222		
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	211		
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	744.0	50442.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	34424.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	744.0	33921.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWE)	1799597.0	1799597.0	79095774.0**
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	590095.0	590095.0	25914624.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	560299.0	560299.0	24495373.0
19. UNIT SERVICE FACTOR	100.0 %	100.0 %	67.2 %
20. UNIT AVAILABILITY FACTOR	100.0 %	100.0 %	67.2 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	97.2 %	97.2 %	62.6 %
22. UNIT CAPACITY FACTOR USING DER NET)	91.6 %	91.6 %	59.0 %
23. UNIT FORCED OUTAGE RATE	0.0 %	0.0 %	21.1 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	STEAM GENERATOR REPLACEMENT 6 MONTHS 1-25-79		
25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP	NONE		
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)	FORECAST	ACHIEVED	

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

**Correction made on Line 16

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: February 1979

DOCKET NO. 50-280
 UNIT NAME Surry 1
 DATE March 1, 1979
 COMPLETED BY O. J. Costello
 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
			NONE DURING THIS REPORTING PERIOD						

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 C - 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 February 1979

DOCKET NO. 50-281
 UNIT NAME Surry 2
 DATE March 1, 1979
 COMPLETED BY O. J. Costello
 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
79-1	2-4-79	5	597.1	C	1				Shutdown for refueling and steam generator replacement outage. Expected date of outage completion is 7-31-79.

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

(9/77)

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: FEBRUARY, 1979

<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					0	

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 2

MONTH: FEBRUARY, 1979

<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					0	

DOCKET NO 50-280
UNIT SURRY I
DATE 3-1-78

COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: FEBRUARY 1978

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	743.7	15	743.3
2	742.9	16	744.5
3	744.0	17	740.1
4	743.7	18	736.2
5	743.5	19	740.2
6	742.3	20	742.3
7	742.5	21	747.4
8	747.8	22	741.7
9	743.6	23	741.7
10	745.9	24	742.5
11	747.1	25	741.8
12	745.6	26	743.5
13	751.3	27	743.1
14	742.6	28	743.8

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.

DO NOT NO 50-281
UNIT SURRY II
DATE 3-1-78

COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: FEBRUARY 1978

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	709.5	15	0.0
2	711.1	16	0.0
3	687.0	17	0.0
4	27.0	18	0.0
5	0.0	19	0.0
6	0.0	20	0.0
7	0.0	21	0.0
8	0.0	22	0.0
9	0.0	23	0.0
10	0.0	24	0.0
11	0.0	25	0.0
12	0.0	26	0.0
13	0.0	27	0.0
14	0.0	28	0.0

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.

SUMMARY OF OPERATING EXPERIENCE

FEBRUARY, 1979

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

- February 1 - This report begins with the unit at 100% power.
- February 28 - This reporting period ends with the unit at 100% power.

UNIT 2

- February 1 - This reporting period begins with the unit at 96% power in coast-down phase at End-Of-Life (E.O.L.)
- February 2 - Unit at 94% power in coastdown phase at E.O.L.
- February 3 - Unit at 93% power in coastdown phase at E.O.L. At 2158 commenced rampdown for refueling/Steam Generator Replacement Outage.
- February 4 - Unit at 65% power at 0000 with rampdown in progress. The generator was off the line at 0254 and the reactor was shutdown at 0324. Reactor coolant system temperature/pressure less than 350°F/450 Psig at 1405.
- February 11 - Reactor vessel head removed at 0226 in preparation for refueling. Reactor upper internals removed at 1105. At 2105 commenced removing fuel from reactor vessel.
- February 14 - Fuel off-load was completed at 0757.
- February 15 - At 0030 reactor vessel head was re-installed in preparation for commencement of steam generator replacement.
- February 28 - This reporting period ends with the unit at CSD and defueled.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

FEBRUARY, 1979

NONE DURING THIS REPORTING PERIOD.

FACILITY CHANGES REQUIRING
NRC APPROVAL

FEBRUARY, 1979

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

FEBRUARY, 1979

None during this reporting period.

TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

FEBRUARY, 1979

None during this reporting period.

TEST AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

FEBRUARY, 1979

None during this reporting period.

OTHER CHANGES, TESTS AND EXPERIMENTS

FEBRUARY, 1979

None during this reporting period.

SURRY POWER STATION

CHEMISTRY REPORT

FEBRUARY, 19 79

T.S.6.6.A.11

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	5.63E-1	1.29E-1	4.31E-1	2.85E-1	1.49E-3	4.54E-2
Suspended Solids, ppm	0.2	0.1	0.1	2.9	0.0	0.3
Gross Tritium, $\mu\text{Ci/ml}$	2.74E-1	2.16E-1	2.53E-1	3.66E-2	3.66E-2	3.66E-2
Iodine-131, $\mu\text{Ci/ml}$	9.22E-3	1.86E-3	5.83E-3	4.17E-4	1.31E-4	2.95E-4
I-131/I-133	0.5329	0.1537	0.2931	0.1053	0.0784	0.0938
Hydrogen, cc/kg	46.6	22.8	36.3	26.5	0.0	3.89
Lithium, ppm	2.50	2.15	2.33	0.36	0.26	0.31
Boron-10, ppm +	98.8	87.6	93.2	463.7	0.0	351.5
Oxygen-16, ppm	0.000	0.000	0.000	6.6	0.000	2.1
Chloride, ppm	0.05	0.05	0.05	0.05	0.05	0.05
pH @ 25°C	7.35	7.07	7.22	8.77	4.94	5.97

+ Boron-10 = Total Boron x 0.196

NON-RADIOACTIVE CHEMICAL
RELEASES, POUNDS
T.S. 4.13.A.8

Phosphate	0.0	Boron	765
Sulfate	1,390	Chromate	0.37
50% NaOH	1,750	Chlorine	0.0

Remarks: Unit #2 Shutdown for Refueling 02-04-79 @0254

DESCRIPTION OF ALL INSTANCES WHEN
THERMAL DISCHARGE LIMITS WERE EXCEEDED

FEBRUARY, 1979

Due to impairment of the circulating water system on the following days the thermal discharge limits were exceeded as noted.

February 10, 1979	*	Exceeded 15°F ΔT across station
February 27, 1979	*	Exceeded 15°F ΔT across station

* Indicates dates when station ΔT was < 15% across the station for sometime during the day.

These ΔT excursions were allowable under T.S. 4.14.B.2. There were no reported instances of significant adverse environmental impact.

On February 2, 1979, station ΔT exceeded 15°F with no circulating water system impairment due to rapid decrease in circulating water inlet temperature and was reported in accordance with T.S.4.14.B.1.

On February 5, 1979, the temperature change at the station discharge exceeded 3°F per hour due to Unit No. 2 condenser circulating water flow isolation during performance of Periodic Test 8.5 (PT-8.5) and was reported in accordance with T.S. 4.14.B.1.

On February 18, 1979, the temperature change at the station discharge exceeded 3°F per hour due to icing problems at the low level intake and was reported in accordance with T.S. 4.14.B.1.

FUEL HANDLING

FEBRUARY, 1979

There were 24 new fuel assemblies received as part of the upcoming refueling of Unit 2. All were removed from shipping containers and stored in the new fuel storage area.

[illegible]

UNIT NO. 2
FUEL HANDLING
FEBRUARY, 1979

DATE SHIPPED /RECEIVED	NO OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL
2-14-79	12	LM06F6/3.40	2.5 mrem/hr.
		LM06EV/3.40	2.5 mrem/hr.
		LM06FX/3.40	2.5 mrem/hr.
		LM06FF/3.40	2.5 mrem/hr.
		LM06FY/3.40	2.5 mrem/hr.
		LM06F2/3.40	2.5 mrem/hr.
		LM06G9/3.40	2.5 mrem/hr.
		LM06GE/3.40	2.5 mrem/hr.
		LM06G3/3.40	2.5 mrem/hr.
		LM06EP/3.40	2.5 mrem/hr.
		LM06G5/3.40	2.5 mrem/hr.
		LM06G7/3.40	2.5 mrem/hr.
2-15-79	12	LM06FE/3.40	2.5 mrem/hr.
		LM06FB/3.40	2.5 mrem/hr.
		LM06GH/3.40	2.5 mrem/hr.
		LM06G2/3.40	2.5 mrem/hr.
		LM06GA/3.40	2.5 mrem/hr.
		LM06FQ/3.10	2.5 mrem/hr.
		LM06EY/3.10	2.5 mrem/hr.
		LM06F1/3.40	2.5 mrem/hr.
		LM06FZ/3.40	2.5 mrem/hr.
		LM06G4/3.40	2.5 mrem/hr.
		LM06GE/3.40	2.5 mrem/hr.
		LM06EQ/3.40	2.5 mrem/hr.

PROCEDURE REVISIONS THAT CHANGED
OPERATING MODE DESCRIBED IN THE FSAR

FEBRUARY, 1979

None during this reporting period.

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

FEBRUARY, 1979

None during this reporting period.

INSERVICE INSPECTION

FEBRUARY, 1979

Westinghouse is in the process of performing I.S.I. inspection on the Unit #2 applicable safety related items detailed in Technical Specification, section 4.2-1 through 4.2-35. The detailed inspection program along with the results will be published by Westinghouse and transferred to the site for record purposes. The rough data is available on site for review.

Ultrasonic inspection was conducted on twenty (20) welds in the low points of the containment spray and recirculation spray systems Unit #2, in accordance with VEPCO Letter serial no. 345/112476 January 11, 1977.

DEPT=NDT

UNIT2

(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVD	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTH
02/20/79	SI	PIPING		PERFORM LIGHT SURFACE GRINDING	REMOVED WELD SPATER AND ARC SSTRIKES	2	902161435	76
02/20/79	RC	VALVE	2-551D	RETIGHTEN MOUNTING FLANGE BOLTING	TIGHTEN BOLTING	2	902161436	76
02/25/79	SI	PIPING	W16	PREP WELD AREA FOR NDT	PREPED WELD RE-PT FOUND TO BE ACCEPT	2	902211119	43
02/25/79	SI	PIPING		PERFORM LIGHT SURFACE BUFFING	PREPED WELD AND RE-PT FOUND SAT	2	902231415	32
02/25/79	RC	PIPING		BOLTING TO WALL	TIGHTENED BOLT	2	902231416	18
02/27/79	RS	PIPING	RS-110-153	PROVIDE FURTHER NDT EVALUATION	REJECT TURNED OVER TO ENGINEERING	2	902161600	142
								367
DEPT TOTAL								

REPORTABLE OCCURRENCES PERTAINING
ANY OUTAGE OR POWER REDUCTIONS

FEBRUARY, 1979

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

DEPT-MECH

UNIT1-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTLWNTM
01/01/79	RC	SG	1-RC E-1A	REMOVE/INSTALL PRIM MANWAYS	INSTALLED MANWAYS	1	812111243	434
01/02/79	VS	CHILLER	1-VS-E-1B	FAN BELTS SLIPPING	CHECKED SAT	1	807010800	7
01/02/79	BS	HATCH		ESCAPE MANWAY ORINGS	REPLACED ORINGS	1	812311700	43
01/02/79	BS	HATCH		VALVE LEAK THRU	REPAIRED VALVE	1	812311701	43
								527
DEPT TOTAL								

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

DEPT-MECH

UNIT2-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSEVDT	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	MR	TOTDWNTH
02/05/79	RC	INST		REPAIR RUPTURE DISC	REPLACED RUPTURE DISC	2	902051320	4
02/06/79	CV	VALVE	2-CV-4	BLOCK CLOSE 2-CV-4	BLOCKED VALVE AS DIRECTED BY OPS	2	902060915	3
02/10/79	CV	PUMP	2-CV-P-1B	REPAIR B CONTAINMENT VAC	TOOK UNIT FROM A AND PLACED INTO B U	2	902100310	4
02/11/79	EE	DIESEL		REPLACE RELIEF VALVE	REPLACED RELIEF VALVE	2	901181415	4
02/11/79	MS	VALVE	2-MS-84	PACKING LEAK	REPACKED VALVE	2	901230250	30
02/11/79	MS	VALVE	2-MS-155	PACKING LEAK	REPACKED VALVE	2	901250717	30
02/11/79	MS	VALVE	2-MS-116	PACKING LEAK	REPACKED VALVE	2	901250720	30
02/11/79	PG	VALVE	2-PG-153	DIAPHRAM RUPTURED-FROZEN	REPAIRED VALVE	2	902110610	5
02/12/79	MS	VALVE	PCV-MS-102	PACKING LEAK	REPACKED VALVE	2	901220740	26
02/12/79	RC	PIPING		PLACE SPOOL PIECES AS NEEDED	INSTALLED DC 77-27	2	901290947	168
02/14/79	MS	VALVE	2-MS-266	PACKING LEAK	REPACKED+REPLACED BONNET GASKET	2	901220700	99
02/14/79	MS	VALVE	2-MS-378	PACKING LEAK	REPACKED+REPLACED BONNET GASKET	2	901250725	99
02/21/79	RL	VALVE	2-RL-6	REPLACE DIAPHRAGM	RENEWED DIAPHRAGM AND ORINGS	2	902161520	24
02/21/79	RL	VALVE	2-RL-10	REPLACE DIAPHRAGM	RENEWED DIAPHRAGM AND ORINGS	2	902161521	24
02/22/79	RL	VALVE	2-RL-20	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902151529	35
02/22/79	RL	VALVE	2-RL-2	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902151517	35
02/22/79	RL	VALVE	2-RL-3	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902151519	35
02/22/79	RL	VALVE	2-RL-4	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902151519	35
02/22/79	RL	VALVE	2-RL-11	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161522	35
02/22/79	RL	VALVE	2-RL-12	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161523	35
02/22/79	RL	VALVE	2-RL-13	REPLACE DIAPHRAGM	REBUILT VALVE	2	902161524	41
02/22/79	RL	VALVE	2-RL-14	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161525	35
02/22/79	RL	VALVE	2-RL-15	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161526	35
02/22/79	RL	VALVE	2-RL-16	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161527	35
02/22/79	RL	VALVE	2-RL-17	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161528	35
02/22/79	RL	VALVE	2-RL-22	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161531	35
02/22/79	RL	VALVE	2-RL-23	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORING	2	902161532	35
02/22/79	RL	VALVE	2-RL-24	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161533	35
02/22/79	RL	VALVE	2-RL-25	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161534	35
02/22/79	RL	VALVE	2-RL-26	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161535	35
02/22/79	CH	PIPING	2-CH-397	WELD 16 HAS PT INDICATION	CLEARED INDICATION RE-PT NRI	2	902201400	24
02/22/79	SI	PIPING	2-SI-273	WELD SPATTER ON SUPPORT REMOVE	CLEARED WELD SPATTER RE VISUALLED	2	902201401	24
02/23/79	CH	PIPING	2-CH-301	LACK OF FUSION OF WELD	REPAIRED SUPPORT REEXAMINED FOUND SA	2	902201403	24
02/25/79	CH	VALVE	2-CH-76	REPLACE DIAPHRAGM	REPLACED SPINDLE COMP DIAPHRAGM ORIN	2	902151137	27
02/25/79	CH	VALVE	2-CH-79	REPLACE DIAPHRAGM	RENEWED DIAPHRAGM AND ORINGS	2	902161138	27
02/25/79	CH	VALVE	2-CH-80	REPLACE DIAPHRAGM	REPAIRED VALVE	2	902161139	27
02/25/79	CH	VALVE	2-CH-81	REPLACE DIAPHRAGM	REBUILT VALVE	2	902161140	27
02/25/79	CH	VALVE	2-CH-82	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161141	27
02/26/79	SI	VALVE	2-SI-24	BODY TO BONNET LEAK	REPLACED FEXATALLIC GASKET	2	901161535	8
02/27/79	MS	VALVE	2-MS-149	PACKING LEAK	REPAIRED VALVE	2	901220725	405
02/27/79	MS	VALVE	2-MS-143	PACKING LEAK	REPAIRED VALVE	2	901250718	405
02/27/79	MS	VALVE	2-MS-208	PACKING LEAK	REPAIRED VALVE	2	901250719	405
02/28/79	CH	VALVE	2-CH-171	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM+ORINGS	2	902161149	33
02/28/79	CH	VALVE	2-CH-179	REPLACE DIAPHRAGM	REBUILT VALVE BONNET	2	902161152	43
02/28/79	CH	VALVE	2-CH-190	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM + ORINGS	2	902161153	43
02/28/79	CH	VALVE	2-CH-184	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161154	33
02/28/79	CH	VALVE	2-CH-196	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161155	33

DEPT=MECH

UNIT2-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSEVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	HR	TOTDWTM
02/28/79	CH	VALVE	2-CH-197	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161156	33
02/28/79	CH	VALVE	2-CH-198	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161157	31
02/28/79	CH	VALVE	2-CH-199	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161158	31
02/28/79	CH	VALVE	2-CH-190	REPLACE DIAPHRAGM	REPLACE DIAPHRAM AND ORINGS	2	902161159	33
02/28/79	CH	VALVE	2-CH-191	REPLACE DIAPHRAGM	REPLACE DIAPHRAM AND ORINGS	2	902161300	33
02/28/79	CH	VALVE	2-CH-193	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161301	31
02/28/79	CH	VALVE	2-CH-195	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161303	33
02/28/79	CH	VALVE	2-CH-198	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM AND ORINGS	2	902161304	33
02/28/79	CH	VALVE	2-CH-199	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM+ORINGS	2	902161305	45
02/28/79	CH	VALVE	2-CH-200	REPLACE DIAPHRAGM	REBUILT VALVE BONNET	2	902161306	45
02/28/79	CH	VALVE	2-CH-201	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM + ORINGS	2	902161307	45
02/28/79	CH	VALVE	2-CH-202	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM + ORINGS	2	902161308	45
02/28/79	CH	VALVE	2-CH-205	REPLACE DIAPHRAGM	REPLACE WORN PARTS	2	902161311	31
02/28/79	CH	VALVE	2-CH-207	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM+ORINGS	2	902161312	31
02/28/79	CH	VALVE	2-CH-208	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM+ORINGS	2	902161313	31
02/28/79	CH	VALVE	2-CH-302	REPLACE DIAPHRAGM	FIX SAT	2	902161320	43
02/28/79	CH	VALVE	2-CH-415	REPLACE DIAPHRAGM	REBUILT VALVE BONNET	2	902161323	43
02/28/79	CH	VALVE	2-CH-416	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM + ORING	2	902161324	45
02/28/79	RL	VALVE	2-RL-1	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM+ORINGS	2	902161515	31
02/28/79	RL	VALVE	2-RL-21	REPLACE DIAPHRAGM	REPLACED DIAPHRAM AND ORINGS	2	902161530	33

DEPT TOTAL

3457

DEPT=ELEC

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

RET	SERV	DT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWN	TM
01/02/79	RS		PM	MTR	1-RS-P-1B	ELECT DISCONNECT PMP MTR FOR MECH	DISC+REC	1	812121100	774	
01/02/79	RC		PUMP		1-RC-P-1B	BALANCE PUMP+MOTOR	BALANCE UNIT	1	901011600	24	
01/02/79	RC		PUMP		1-RC-P-1A	BALANCE PUMP+MOTOR	BALANCED MOTOR+PUMP	1	901011601	23	
DEPT TOTAL										821	

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

DEPT=ELEC

UNIT2-
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKFPERF	U	MR TOTDWNM
02/07/79	FW	PUMP	2-FW-P-3B	PUMP START NOT SAT	TIME DELAY TESTED SAT	2	902050137 0
02/09/79	FW	PUMP	2-FW-P-3A	PUMP START NOT SAT	TIME DELAY TESTED SAT	2	902050130 64
02/12/79	DA	PMP MTR	2 DA P-4A	PUMP MOTOR PMS	COMPLETED PMS SAT	2	901261013 24
02/12/79	DA	PMP MTR	2-DA-P-4B	PUMP MOTOR PMS	COMPLETED PMS SAT	2	901261014 24
02/13/79	RIS	ALARM	KH-3	2J UNDERVOLTAGE DID NOT ANNUNCIATE	RIS TEST SAT	2	902050113 82
02/16/79	RH	PMP MTR	2-RH-P-1B	UP THRUST BEARING THERMOCOUPLE BAD	READY FOR SERVICE	2	901161055 26
02/17/79	RH	PMP MTR	2 RH-P-1B	ANNUAL PMS	READY FOR SERVICE	2	902151345 53
02/20/79	SV	MOV	MOV-SW-203A	VALVE WILL NOT CLOSE ELECTRICALLY	CLEANED CONTACTS	2	902041900 391
02/20/79	RIS	ALARM	AUG	NO ALARM WHEN PUM STARTED	TESTED SAT	2	902131112 3
02/21/79	EPDC	CHARGER	2-A2	BATT CHARGER PMS	CLEANED AND INSPECTED TEST SAT	2	901261311 5
02/21/79	EPDC	CHARGER	2-B1	BATT CHARGER PMS	CLEANED AND INSPECTED TEST SAT	2	901261312 7
02/21/79	EPDC	CHARGER	2 B2	BATT CHARGER PMS	CLEANED INSPECTED TEST SAT	2	901261313 24
02/21/79	SI	INST		AGASTAT TIMER	TEST SAT	2	902160745 2
02/21/79	CH	PUMP	2-CH-P-2D	PUMP TRIPPED OUT	ELEC TEST SAT TURN OVER TO MECHANICS	2	902142110 23
02/22/79	EPDC	CHARGER	2-A1	BATT CHARGER P	CLEANED AND INSPECTED TEST SAT	2	901261310 7

DEPT TOTAL

735

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

INSTRUMENT MAINTENANCE

UNIT #1

FEBRUARY, 1979

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

DEIT=INST

UNIT - 2
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RET	SERV	DT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWN	TM
02/05/79	NI	SOURCE	N131			LOST DETECTOR VOLTAGE	FIXED+CALIBRATED	2	902042140	24	
02/09/79	CH	CONT	HCV-2137			VALVE WILL NO OPEN APPEAR OK	CHECKED OUT VALVE	2	812041235	96	
02/20/79	CH	INST	LJ-102			C BAST LEVEL CHANNEL	RECALIBRATED THE TRANSMITTER	2	902150350	96	
										216	
DEIT TOTAL											

HEALTH PHYSICS

FEBRUARY, 1979

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 10CFR20.

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

FEBRUARY, 1979

None during this reporting period.