

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 81-03

MARCH, 1981

APPROVED:

J. Wilson
MANAGER

8104210

276

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OPERATING DATA REPORT

DOCKET NO. 50-280
 DATE 07 APR 81
 COMPLETED BY SUE D. DUNN
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	810301 TO 810331
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)	740
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	704
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 N/A
 (NET MWE)

10. REASONS FOR RESTRICTIONS, IF ANY N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	2160.0	72528.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	0.0	42538.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3731.5
14. HOURS GENERATOR ON-LINE	0.0	0.0	41668.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	0.0	96389401.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	31301743.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	29699924.0
19. UNIT SERVICE FACTOR	0.0	0.0	57.5 %
20. UNIT AVAILABILITY FACTOR	0.0	0.0	62.6 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	58.2 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	52.0 %
23. UNIT FORCED OUTAGE RATE	0.0	0.0	26.4 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)			

25. IF SHUT DOWN AT END OF REPORT PERIOD, JULY 1, 1981
 ESTIMATE DATE OF STARTUP

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

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-281
 DATE 07 APR 81
 COMPLETED BY O.J. COSTELLO
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2		
2. REPORTING PERIOD	810301 TO 810331		
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	2160.0	69408.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	735.2	2151.2	39935.2
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	721.1	2137.1	39273.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1746612.0	5199275.0	91653936.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	570300.0	1700460.0	29939454.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	540688.0	1612723.0	28391211.0
19. UNIT SERVICE FACTOR	96.9 %	98.9 %	56.6 %
20. UNIT AVAILABILITY FACTOR	96.9 %	98.9 %	56.6 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	93.8 %	96.3 %	52.8 %
22. UNIT CAPACITY FACTOR (USING DER NET)	92.2 %	94.8 %	51.9 %
23. UNIT FORCED OUTAGE RATE	3.1 %	1.1 %	18.9 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	SNUBBER INSP. AND SPRING MAINT. APRIL 17, 1981-10 DAYS-FALL MAINT.-OCTOBER 2, 1981 10 DAYS		
25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP			
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)	FORECAST	ACHIEVED	

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March, 1981

DOCKET NO. 50-280
 UNIT NAME Surry Unit 1
 DATE April 7, 1981
 COMPLETED BY Sue D. Dunn
 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
81-3	3-1-81	S	744.0	A	1				Continuation of shutdown for steam generator replacement outage which commenced 9-14-80.

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, 1981

DOCKET NO. 50-281
 UNIT NAME Surry Unit 2
 DATE April 7, 1981
 COMPLETED BY Sue D. Dunn
 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
81-2	3-21-81	F	22.9	H	3				Reactor tripped by "A" S/G Lo-Lo Level signal due to spurious trip of "B" main feed pump.

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, 1981

<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						

MONTH: March, 1981

[illegible]

DOCKET NO 50-280
UNIT SURRY I
DATE 4-1-81
COMPLETED BY SUE D. DUNN

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MARCH 81

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	17	0.0
2	0.0	18	0.0
3	0.0	19	0.0
4	0.0	20	0.0
5	0.0	21	0.0
6	0.0	22	0.0
7	0.0	23	0.0
8	0.0	24	0.0
9	0.0	25	0.0
10	0.0	26	0.0
11	0.0	27	0.0
12	0.0	28	0.0
13	0.0	29	0.0
14	0.0	30	0.0
15	0.0	31	0.0
16	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.

DOCKET NO 50-281
UNIT SURRY II
DATE 4-1-81
COMPLETED BY SUE D. DUNN

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MARCH 81

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	755.4	17	753.2
2	758.3	18	749.3
3	755.9	19	748.8
4	752.8	20	750.5
5	755.4	21	567.4
6	755.3	22	113.9
7	753.7	23	727.0
8	754.6	24	757.6
9	753.8	25	756.3
10	753.6	26	758.2
11	754.2	27	754.8
12	753.0	28	757.2
13	753.4	29	755.5
14	752.8	30	755.8
15	752.8	31	756.0
16	752.4		

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

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

- March 1 This reporting period begins with the unit at cold shutdown for steam generator replacement and major design changes.
- March 31 This reporting period ends with the unit at cold shutdown for steam generator replacement and major design changes.

UNIT 2

- March 1 This reporting period begins with the unit at 100% power.
- March 21 In preparation for ST-36 (Special Test for measurement of S/G moisture carryover content) power was reduced to 91% at 0420. Tave was raised from 566.5°F to 574.4°F and power increased to 100% by 0710. S/G levels were reduced from 44% to 39%, the condensate polishing system bypassed and the S/G blowdown system secured in preparation for ST-36. At 1210 Na-24 injection commenced. At 1821, with ST-36 in progress, the reactor tripped on a Lo-Lo S/G level signal on "A" S/G. The Lo-Lo level was caused by the spurious trip of the "B" Main Feed Pump. Reactor criticality was achieved at 2256.
- March 22 At 0538 the reactor was tripped from 7% power by a spurious signal from the turbine trip circuitry. At 0815 the reactor was critical and tripped 0845 due to an Instrument Technician error while investigating the cause of the 0538 trip. The cause of the 0538 trip was never discovered and all circuitry and instrumentation checked out satisfactorily. The reactor was critical at 1018 and the turbine was latched at 1100. At 1110 the turbine was tripped manually due to high bearing vibrations. The bearing vibrations were the result of a slight bow in the turbine rotor. The bow in the rotor was caused by a problem with the bearing lift oil pump, which prevented the turbine from being engaged and rotated by the turning gear. The turbine bearing vibration problem was resolved and the generator went on the line at 1714. Power was escalated until 2308 then leveled at 85% and 700 MWe.
- March 23 The power level was held at 85% and 700 MWe until 0637 to observe the performance of the "B" MFP then increased to 100% at 0740.
- March 31 This reporting period ends with the unit at 100% power.

March, 1981

The Nuclear Regulatory Commission issued, on February 10, 1981, Amendment No. 65 to the Operating License for Surry Power Station, Unit No. 1. The changes have been designated as Technical Specification Change No. 71.

The changes are identical to those issued by Amendment No. 54 for Surry Unit No. 2 and distributed by a memorandum dated January 25, 1980 as Technical Specification Change No. 62. The changes incorporate steam generator inservice inspection requirements and reactor coolant and secondary coolant iodine radioactivity concentration limits in the Surry Unit No. 1 Technical Specifications.

In addition to the requirements of the Technical Specifications, paragraph E Steam Generator Inspection of the Operating License is deleted and paragraph 3.B of the Operating License is amended to read as follows:

"B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 65, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

The Nuclear Regulatory Commission issued, on February 25, 1981, Amendments No. 66 and No. 65 to the Operating Licenses for Surry Power Station, Unit 1 and Unit 2, respectively. The changes are enclosed and have been designated as Technical Specification Change No. 72.

Of significance, the changes allow an increase in the enrichment of new and spent fuel from 3.6 weight percent of U-235 to 3.7 weight percent of U-235. The changes permit the storage of increased enrichment fuel necessary for participation in a Department of Energy demonstration and evaluation program concerned with high burnup technology.

February, 1981

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

UNIT

D/C 77-19 Make-up Water Treatment Modification

1,2

The filter backwash settling pond (77-19G) portion of this design change has been implemented.

Summary of Safety Analysis

There are no safety implications for the proposed changes as the operation of safety related equipment will not be affected.

D/C 78-08 Fire Protection Modification

1,2

The 78-08I portion involving the installation of a heat detector in the gaseous waste charcoal filters to alarm in the security building control room was implemented.

Summary of Safety Analysis

This modification increases surveillance of the gaseous waste charcoal filters to reduce the chances of a fire related accident.

D/C 78-10 Condensate Polishing Addition

2

Another portion of this design change involving major mechanical installation and erection of pipes and hangars (78-10K) was implemented.

Summary of Safety Analysis

This modification neither constitutes an unreviewed safety question nor requires a change to Technical Specifications.

D/C 78-44 Steam Generator Blowdown Treatment System

2

The piping portion (78-44B) of this design change has been implemented.

Summary of Safety Analysis

The overall safety reliability and performance of the steam generator blowdown system will be improved by this modification. The design specifications will meet or exceed the specifications of the existing system.

-12-
FACILITY CHANGES REQUIRING
NRC APPROVAL

March, 1981

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

	<u>UNIT</u>
<u>D/C 77-32A Containment Cooling System Modification</u>	1
Containment Cooling System Modification installed the new chilled water units and piping into the new system.	
<u>SUMMARY OF SAFETY ANALYSIS</u>	
There is no change in the operation of safety related equipment as a result of this design change.	
<u>D/C 78-10 Condensate Polishing Addition</u>	1,2
This portion of the design change involving Auxiliary Boiler Breeching and Steam Piping Relocation was implemented.	
<u>SUMMARY OF SAFETY ANALYSIS</u>	
This modification neither constitutes an unreviewed safety question nor requires a change to Technical Specifications.	
<u>D/C 78-35 LHSI & ORS Pump Bellmouth Modifications</u>	2
This design change installed a crossvane type extension for both pumps to insure radial flow into the pump suction to eliminate excessive vortexing.	
<u>SUMMARY OF SAFETY ANALYSIS</u>	
This modification requires no change to the Technical Specifications, FSAR requirements, and does not create "An Unreviewed Safety Question."	
<u>D/C 78-44 Steam Generator Blowdown Treatment System</u>	2
The electrical portion (78-44C) of this design change has been implemented.	
<u>SUMMARY OF SAFETY ANALYSIS</u>	
The overall safety reliability and performance of the Steam Generator Blowdown System will be improved by this modification. The design specifications will meet or exceed the specifications of the existing system.	

Facility Changes That Did Not Require NRC Approval (Continued)

UNIT

D/C 80-80 Change Anti Flooding Alarm Probes

1,2

This design change raised the Anti Flooding Alarm Probes from 1" above the bottom of the valve pits in the turbine building to 5".

SUMMARY OF SAFETY ANALYSIS

This modification required no change to technical specifications, will not affect FSAR, and does not create an unreviewed Safety Question.

D/C 80-81 Disconnecting Precoat Circuitry

1,2

This design change disconnected the control circuitry for the precoat process to the contaminated Drains Pump. Precoating the filter is no longer required.

SUMMARY OF SAFETY ANALYSIS

This modification will not affect station operations or the operation of any safety related equipment, because it will not effect the proper operation of the pump.

D/C 80-82 Isolation Valve for the Auxiliary Boilers

1,2

This design change provides a new valve installed in the auxiliary steam line to perform maintenance on the auxiliary boilers while the Unit 2 flash evaporator is operating.

SUMMARY OF SAFETY ANALYSIS

This modification will have no effect on the operation of any safety related equipment as a result of this design change.

-14-
TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

March, 1981

None during this reporting period.

TEST AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

		<u>UNIT</u>
<u>ST-107</u>	Control Room Emergency Ventilation Flow Test was conducted on 2-20-81. The purpose of this test is to measure Control Room Emergency Ventilation Flow Rates and Pressure Drops.	1
<u>ST-108</u>	Relocation of R.O. 4303 was conducted on 3-13-81. The purpose of this special test is to provide a method of determining if restricting orifice RO-4303 is responsible for the excessive noise levels outside the condensate polishing control room during the demineralizer recirculation cycle.	2
<u>ST-125</u>	Special Test for Determining Developed ΔP for the Steam Generator Auxiliary Feedwater Pumps was conducted on 3-16-81. The purpose of this test is to provide ΔP reference values for 2-FW-P-3A and 2-FW-P-3B with the recirculation valve open and with the recirculation valve closed.	2

March, 1981

None during this reporting period.

-16-
SURRY POWER STATION

CHEMISTRY REPORT

March , 19 81

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	*	*	*	3.07E-1	1.15E-1	2.05E-1
Suspended Solids, ppm	*	*	*	0.1	0.1	0.1
Gross Tritium, $\mu\text{Ci/ml}$	*	*	*	2.52E-1	1.33E-1	2.02E-1
Iodine-131, $\mu\text{Ci/ml}$	*	*	*	4.09E-1 ^(B)	1.77E-3	2.40E-3 ^(C)
I-131/I-133	*	*	*	1.0036	.4870	.7373
Hydrogen, cc/kg	*	*	*	49.3	36.2	43.1
Lithium, ppm	*	*	*	2.00	1.20	1.70
Boron-10, ppm +	*	*	*	121	101	108
Oxygen-16, ppm	*	*	*	.000	.000	.000
Chloride, ppm	*	*	*	.05	.05	.05
pH @ 25°C	*	*	*	6.98	6.68	6.89

+ Boron-10 = Total Boron x 0.196

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

Phosphate	-0-	Boron	227
Sulfate	-0-	Chromate	2.1
50% NaOH	-0-	Chlorine	-0-

Remarks: (A) Unit #1 at CSD, defueled, and system drained for SGRP.

(B) Due to spiking - a result of Rx trip at 1824 hrs on 3-21-81

(C) Average does not include spiking due to Rx trip.

These amounts of chemicals should have no major adverse environmental impact.

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

March, 1981

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

March 15, 1981	*	Exceeded <u>15</u> °F Δ T across station
March 21, 1981	*	Exceeded <u>15</u> °F Δ T across station
March 22, 1981	*	Exceeded <u>15</u> °F Δ T across station
March 26, 1981	*	Exceeded <u>15</u> °F Δ T across station
March 28, 1981	*	Exceeded <u>15</u> °F Δ T across station
March 29, 1981	*	Exceeded <u>15</u> °F Δ T across station

*Indicated dates where station Δ T was less than 15.0 °F across station for sometime during the day.

The Δ T excursions were allowable under Technical Specification 4.14.B.2. There were no reported instances of adverse environmental impact.

On March 21, 1981 the temperature change at the station discharge exceeded 3 °F per hour due to a reactor trip on Unit 2. On March 22, 1981 the temperature change at the station discharge exceeded 3 °F per hour while power was being increased following unit recovery after the trip on March 21, 1981.

The March 22nd 3 °F temperature change was reported by VEPCO letter Ser. 229 of April 1, 1981. The other events were allowable in accordance with Technical Specification 4.14. There were no reported instances of adverse environmental impact.

March, 1981

Unit No. 1

None during this reporting period.

-19-
FUEL HANDLING

Unit No. 2

March, 1981

None during this reporting period.

-20-
PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE FS

March, 1981

None during this reporting period.

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

March, 1981

None during this reporting period.

March, 1981

UNIT 1

The Westinghouse program for inservice inspection is still in progress with no major indications being noted. An inspection of ASME Class III hangars and component supports is still in progress.

Support inspections are being conducted in conjunction with the L.P. and H.P. turbine overhaul.

Conducted further eddy current investigation of feedwater heat exchangers 5A, 6A and 6B-resulted in a recommendation to plug 31 tubes in 6A, 27 tubes in 6B and 1 tube in 5A.

Completed a peripheral tube inspection on A, B and C steam generators after closing out of the secondary accesses to the tube bundle. No significant indications were noted.

Commenced the preservice inspection of the main steam piping, reactor coolant piping and miscellaneous piping associated with the steam generator replacement program.

Completed a radiographic inspection after repair by mechanical maintenance of 6 welds in Unit 1 safeguards.

UNIT 2

No inservice work was conducted this month.

DEPT=NDT

2 APR 81 * 10:37 AM PAGE 8

UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTS	SERVD	SYS	COMP	MARKNO	SUMMARY	WKPERP	U	MR	TOTDWNTH
03/25/81	RS	PIPING	24WS-34-10	AT PIPING ADJACENT	PERFORMED UT INSPECTION	1	103171342	122	
DEPT TOTAL									122

-24-
REPORTABLE OCCURRENCES PERTAINING
ANY OUTAGE OR POWER REDUCTIONS

March, 1981

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RSTS	SERVD	SYS	COMP	MARKNO	SUMMARY	WKPSRF	U	MR	TOTLWNTM
03/02/81	RS	HX		1-RS-5-1B	CLEAN HEAT EXCHANGER	REPAIRED DIAPHRAM WELD AREA	1	011150921	2511
03/02/81	RS	HX		1-RS-5-1C	CLEAN HEAT EXCHANGE TUB	REPAIRED DIAPHRAM WELD AREA	1	011150931	2511
03/02/81	RS	HX		1-RS-5-1A	CLEAN HEAT EXCHANGER	COMPLETED	1	011170845	2511
03/02/81	VS	PUMP		1-VS-P-1A	REPAIR SUCTION STRAINER GASKET	REPLACED GASKET	1	103020400	3
03/03/81	SI	VALVE		1-SI-224	REPLACE BOLTS	REPLACED STUDS	1	010011335	479
03/03/81	SI	VALVE		1-SI-226	REPLACE BOLTS	REPLACED STUDS	1	010011336	479
03/03/81	SI	VALVE		1-SI-227	REPLACE BOLTS	REPLACED STUDS	1	010011337	479
03/03/81	SI	VALVE		1-SI-225	REPLACE BOLTS	REPLACED STUDS	1	010011371	479
03/03/81	BS	DOOR			REPAIR DOOR SEAL	REPAIRED SEAL ON DOOR	1	103030202	8
03/04/81	SI	VALVE		1-SI-88	REPLACE BOLTS	REPLACED BOLTS	1	010011343	3497
03/04/81	SI	VALVE		1-SI-239	REPLACE BOLTS	REPLACED STUDS	1	010011344	3497
03/04/81	SI	VALVE		1-SI-91	REPLACE BOLTS	REPLACED BOLTS PER DC 79-05	1	010011345	3497
03/04/81	SI	VALVE		1-SI-238	REPLACE BOLTS	REPLACED STUDS	1	010011348	3497
03/04/81	SI	VALVE		MOV-1867B	REPLACE BOLTS	REPLACED STUDS	1	010011358	3047
03/04/81	SI	VALVE		MOV-1867C	REPLACE BOLTS	REPLACED STUDS	1	010011359	3047
03/04/81	SI	VALVE		MOV-1867D	REPLACE BOLTS	REPLACED STUDS	1	010011360	3047
03/04/81	SI	VALVE		MOV-1867-B	REPLACE BOLTING	VOID DONE ON PREV MR	1	012110901	0
03/04/81	SI	VALVE		MOV-1867C	REPLACE BOLTING	REPLACED STUDS	1	012110902	71
03/04/81	SI	VALVE		MOV-1867-D	REPLACE BOLTING	VOID COVERED BY PREV MR	1	012110903	0
03/04/81	SA	FILTER			SA FILTER IS FULL OF WATER	REPLACED FILTER	1	101201840	12
03/04/81	BS	DOOR			WEATHER STRIPPING FALL OFF	REPLACED WEATHERSTRIPPING	1	103031940	12
03/05/81	RL	VALVE		1-RL-4	REPLACE BOLTING	REPLACED STUDS	1	010231914	718
03/06/81	CC	PIPING			3/8 FITTING LEAKS	REPAIRED LEAK	1	003041320	7
03/06/81	SI	VALVE		1-SI-240	REPLACE BOLTS	REPLACED STUD AND NUTS ON VALVE	1	010011346	3546
03/06/81	SI	VALVE		1-SI-94	REPLACE BOLTS	REPLACED STUD AND NUTS ON VALVE	1	010011347	3546
03/07/81	RH	PIPING		12 RH-19	NEED WELD PREP	DID NOT REQUIRE GRINDING	1	102041438	717
03/09/81	RS	PUMP		1-RSP-2B	PULL PUMP TO INSTALL FLOW SPLITTER	PERFORM DC 78-S35	1	009141302	4176
03/09/81	RS	PUMP		1 RS-P-2A	PULL PUMP TO INSTALL FLOW SPLITTER	PERFORMED DC 78-835	1	009151301	4177
03/09/81	SI	PUMP		1-SI-P1B	PULL PUMP TO INSTALL FLOW SPLITTER	INSTALL FLOW SPLITTER ON PUMP	1	009151304	3545
03/09/81	SI	PUMP		1-SI-P-1A	PUMPING AT REDUCED FLOW	PERFORMED DC 78-S35 + CORR MAINT	1	009230120	3525
03/09/81	CH	VALVE		1-CH-43	REPLACE DIAPHRAM IN VALVE	REPLACED DIAPHRAM	1	101021428	1438
03/10/81	BD	PIPING		1-WGCB-601	DJC 79-S32C INSTALL SUPPORT MOD.	SUPPORT INSTALLED	1	005150901	2014
03/10/81	CH	INSTR		FE-1122	INSPECT	VOID NOT TO BE DONE AT THIS TIME	1	006051201	0
03/10/81	RH	VALVE		MOV-RH-100	CHECK OUT MOV BEFORE VALVE OPER	CHECKED OUT MOV SAT	1	011031245	22
03/11/81	SI	VALVE		TV-1884A	REPLACE BOLTS	REPLACE STUDS	1	010011368	181
03/11/81	SI	VALVE		TV-1884B	REPLACE BOLTS	REPLACED STUDS	1	010011369	181
03/11/81	SI	VALVE		TV-1884C	REPLACE BOLTS	REPLACED STUDS	1	010011370	181
03/11/81	CS	VALVE		1-CS-36	REPLACE BOLTING	REPLACE BOLTS	1	010071117	3349
03/11/81	CS	VALVE		1-CS-35	REPLACE BOLTING	REPLACE BOLTS	1	010071119	3349
03/11/81	CH	VALVE		1-CS-1	REPLACE BOLTING	REPLACE BOLTS	1	012021309	31
03/11/81	CH	VALVE		1-CS-4	REPLACE BOLTING	REPLACE BOLTS	1	012021310	31
03/11/81	SI	VALVE		HCV-1850A	REPLACE BOLTING	REPLACE BOLTS	1	012051123	1307
03/11/81	SI	VALVE		HCV-1850B	REPLACE BOLTING	REPLACE BOLTS	1	012051124	1307
03/11/81	SI	VALVE		HCV-1850C	REPLACE BOLTING	REPLACE BOLTS	1	012051125	1307
03/11/81	SI	VALVE		HCV-1850D	REPLACE BOLTING	REPLACE BOLTS	1	012051126	1307
03/11/81	SI	VALVE		HCV-1850E	REPLACE BOLTING	REPLACE BOLTS	1	012051127	1307
03/11/81	SI	VALVE		HCV-1850F	REPLACE BOLTING	REPLACE BOLTS	1	012051128	1307

UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RSTS	SERVD	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWN	MTM
03/11/81	SI	VALVS	HCV-1851A	REPLACE BOLTING	REPLACE BOLTS NUTS AND GASKETS	1	012051132	1307		
03/11/81	SI	VALVS	HCV-1851B	REPLACE BOLTING	REPLACE BOLTS NUT AND GASKETS	1	012051133	1307		
03/11/81	SI	VALVS	HCV-1851C	REPLACE BOLTING	REPLACE BOSTS	1	012051134	1307		
03/11/81	CH	COOLSR	1-CH-S-7A	D/C 80-66 REPLACE SEALS	REPLACSD TRAILER HITCH	1	103061419	58		
03/12/81	FW	PIPING	6-WCMU-4	D/C 79-S32C INSTALL SUPPORT	COMPLTSE	1	004241053	4214		
03/13/81	BR	PUMP	1-BR-P-1A	PERFORM PMS	INSTALLED NEW PUMP	1	007110903	193		
03/13/81	RC	VALVS	1-RC-153	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103030958	204		
03/13/81	RC	VALVS	1-RC-152	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103030959	204		
03/13/81	RC	VALVS	1-RC-151	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031000	204		
03/13/81	RC	VALVS	1-RC-124	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031001	204		
03/13/81	RC	VALVS	1-RC-121	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031002	204		
03/13/81	RC	VALVS	1-RC-120	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031003	198		
03/13/81	RC	VALVS	1-RC-118	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031004	204		
03/13/81	RC	VALVS	1-RC-115	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031005	204		
03/13/81	RC	VALVS	1-RC-114	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031006	204		
03/13/81	RC	VALVS	1-RC-112	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031007	204		
03/13/81	RC	VALVS	1-RC-109	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031008	204		
03/13/81	RC	VALVS	1-RC-108	REPLACE DIAPHRAGM	REPLACSD DIAPHRAGM	1	103031009	204		
03/16/81	CS	VALVS	1-CCS-14	REPLACE BOLTING	REPLACE STUDS	1	010071109	3485		
03/16/81	CS	VALVS	1-CS-25	REPLACE BOLTING	REPLACE STUDS	1	010071115	3464		
03/16/81	CS	VALVS	1-CS-7	REPLACE BOLTING	REPLACE STUDS	1	010071122	3485		
03/16/81	CS	VALVS	1-CS-29	REPLACE BOLTING	REPLACE STUDS	1	010081414	3790		
03/16/81	CS	VALVS	1-CS-32	REPLACE BOLTING	REPLACE STUDS	1	010081415	3790		
03/16/81	CS	VALVS	1-CS-51	REPLACE BOLTING	REPLACE STUDS	1	010091335	24		
03/16/81	CS	VALVS	MOV-CS-100A	REPLACE BOLTING	REPLACE STUDS	1	010091338	90		
03/16/81	CS	VALVS	MOV-CS-100B	REPLACE BOLTING	REPLACE STUDS	1	010091339	98		
03/16/81	CS	VALVS	MOV-CS-102A	REPLACE BOLTING	STUDS REPLACE	1	010091344	49		
03/16/81	CS	VALVS	MOV-CS-102B	REPLACE BOLTING	REPLACE STUDS	1	010091345	49		
03/16/81	CS	VALVS	1-CS-29	REPLACE BOLTING	VOID WORK DONE ON PREV MR	1	011170908	0		
03/16/81	CH	VALVS	1-CS-39	REPLACE BOLTING	STUDS REPLACED	1	012021311	49		
03/16/81	CH	VALVS	1-CS-38	REPLACE BOLTING	STUDS REPLACE	1	012021313	49		
03/16/81	CH	VALVS	1-CS-45	REPLACE BOLTING	REPLACE STUDS	1	012021314	26		
03/16/81	SI	VALVS	1-SI-229	REPLACE BOLTING	REPLACSD STUD AND NUTS IN VALVE	1	012051103	24		
03/16/81	CH	MOV	HCV-1303B	REPLACE BOLTING	REPLACE BELTS	1	101081214	732		
03/16/81	CH	MOV	HCV-1303C	REPLACE BOLTING	REPLACE BOLTS	1	101081215	1399		
03/16/81	CV	PUMP	1-CV-P-1A	WELD IN ELECTRICAL PULG	VOID NO WELDING ON THIS MR	1	103090800	0		
03/16/81	SW	VALVS	MOV-SW-102B	REMOVE GREASE AND CLEAN GEAR BOX	REMOVE ALL THE OLD GREASE	1	103110802	126		
03/16/81	RM	PUMP	RI-C-W101	BELT BROKEN	COMPLETED	1	103150214	24		
03/16/81	VS	STRAINER		REPAIR AS REQUIRED	CLEAN STRAINER	1	103151007	22		
03/16/81	BR	HX	1-BR-S-10A	TUBE LEAK	COMPLETED REMOVED OLD TUBE BUNDLES	1	802101515	27000		
03/16/81	RH	VALVS	HCV-RH-1605	VALVE HAS EXCESSIVE SEAT LEAKAGE	ADJUSTED LINKAGE	1	912311453	74		
03/17/81	RS	VALVS	MOV-RS-156A	REPLACE BOLTING	VOID REPLACED WITH NEW VALVS	1	010081615	0		
03/17/81	RS	VALVS	MOV-RS-156B	REPLACE BOLTING	VOID RELACED WITH NEW VALVS	1	010081616	0		
03/17/81	CS	VALVS	MOV-CS-101A	REPLACE BOLTING	VOID REPLACED WITH NEW VALVS	1	010091340	0		
03/17/81	CS	VALVS	MOV-CS-101B	REPLACE BOLTING	VOID REPLACED WITH NEW VALVS	1	010091341	0		
03/17/81	CS	VALVS	MOV-CS-101	REPLACE BOLTING	VOID RELACED WITH NEW VALVE	1	010091342	0		
03/17/81	CS	VALVS	MOV-CS-101D	REPLACE BOLTING	VOI REPLACED WITH NEW VALVS	1	010091343	0		

UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RSTS	SERVD	SYS	COMP	MARKNO	SUMMARY	WKPSRF	U	MR	TOTD	WNTH
03/17/81		CS	VALVS	1-CS-32	REPLACE BOLTING	VOID WRK COMPLETED ON PREV MR	1	011170906	0	
03/17/81		CH	VALVS	1-CS-52	REPLACE BOLTING	VOID VAVLS HAS BEEN REMOVED	1	012021312	0	
03/17/81		RH	VALVS	RV-CC-119B	INSPECT AND SET PT 12.2	VOIDCOVERED BY PREV MR	1	103100847	0	
03/18/81		BR	VALVS	1-BR-10	REPLACE BOLTING	REPLACED BOLTING	1	011191613	4	
03/18/81		FC	VALVS	1-FC-68	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	012081137	1748	
03/18/81		FC	VALVS	1-FC-57	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	012081204	24	
03/19/81		BR	PIPING	PI-BR-116A	1-BR-20 IS SHUT TO STOP LEAK	REPLACED GAGE	1	002231420	54	
03/19/81		SI	VALVS	1-SI-228	REPLACE BOLTS	REPLACED STUDS	1	010011356	94	
03/19/81		CS	VALVS	1-CS-24	REPLACE BOLTING	REPLACE STUDS	1	010071113	88	
03/19/81		RL	VALVS	1-RL-19	REPLACE BOLTING	REPLACED BOLTS	1	010231921	1055	
03/19/81		CC	VALVS	RV-CC-119A	OVERHAUL AND TEST	REMOVES TEST SAT INSTALL	1	011031402	70	
03/19/81		BR	VALVS	1-BR-5	REPLACE BOLTING	REPLACED BOLTS	1	011191611	41	
03/19/81		BR	VALVS	1-BR-6	REPLACE BOLTING	REPLACED BOLTS	1	011191612	41	
03/19/81		BR	VALVS	1-BR-242	REPLACE BOLTING	REPLACED BOLTS	1	011191616	41	
03/19/81		CH	VALVS	1-CS-13	REPLACE BOLTING	REPLACE STUDS	1	012021315	88	
03/19/81		FC	VALVS	1-FC-67	REPLACE BOLTING	REPLACED STUDS	1	012081135	1748	
03/19/81		FC	VALVS	1-FC-45	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	012081147	47	
03/19/81		FC	VALVS	1-FC-50	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	012081148	47	
03/19/81		FC	VALVS	1-FC-9	REPLACE BOLTING	REPLACED STUDS	1	012081202	47	
03/19/81		FC	VALVS	1-FC-11	REPLACE BOLTING	REPLACED STUDS	1	012081203	47	
03/19/81		FC	VALVS	1-FC-63	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	012081205	47	
03/19/81		SW	VALVS	MOV-SW-104C	OVERHAUL PT 16.4	OVERHAUL VALVE AS PER PROCEDURE	1	102091008	402	
03/19/81		RH	VALVS	RV-1209	INSPECT AND SET PT 12.2	REMOVED TESTED INSTALLED	1	103100854	213	
03/20/81		BR	PUMP	1-BR-P-1B	PERFORM PMS	INSPECTED PUMP	1	007110902	235	
03/20/81		BR	VALVS	1-BR-31	REPLACE BOLTING	REPLACED BOLTS	1	011191610	44	
03/20/81		BR	VALVS	1-BR-136	REPLACE BOLTING	REPLACED BOLTS	1	011191614	42	
03/20/81		BR	VALVS	1-BR-134	REPLACE BOLTING	REPLACE BOLTS	1	011191615	42	
03/20/81		BR	VALVS	1-BR-240	REPLACE BOLTING	REPLACED BOLTS	1	011191617	64	
03/20/81		SW	VALVS	MOV-SW-104D	OVERHAUL	OVERHAUL VALVE AS PER MMP-C-G-103	1	102091009	424	
03/23/81		SI	VALVS	1-SI-107	DISASSEMBLE VALVE FOR INSPECTION	DISASSEMBLED VALVE FOR ISI + REASSEM	1	009171353	2861	
03/23/81		CC	PIPING	1-CC-829	PIPE TO FS 118 IS BROKEN OFF	VOID REMOVED BROKEN PIPE	1	010121320	0	
03/23/81		CH	VALVS	1-CH-36	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231651	1831	
03/23/81		CH	VALVS	1-CH-174	REPLACE BOLTING	VOID WORK PERFORM ON MR 1012021300	1	010231724	0	
03/23/81		CH	VALVS	TCV-1143	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	010231847	97	
03/23/81		CS	VALVS	1-CS-24	REPLACE BOLTING	VOID WORK DONE PREV MR	1	011170905	0	
03/23/81		CH	VALVS	1-CH-174	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	012021300	97	
03/23/81		CH	MOV	HCV-1244	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVS	1	101081201	71	
03/24/81		CH	VALVS	FCV-CH-1122	INVESTIGATE LOW FLOW	VOID DONE ON PREV MR	1	001081715	0	
03/24/81		BD	PIPING	1-WGCB-601	D/C 79-S32B INSTALL NEW SNUBBER	SNUBBER INSTALLED	1	005150900	2375	
03/24/81		CH	VALVS	1-CH-1	REPLACE BOLTING	REPLACED STUDS	1	010231500	3528	
03/24/81		CH	VALVS	1-CH-45	REPLACE BOLTING	REPLACED STUDS	1	010231504	3528	
03/24/81		CH	VALVS	1-CH-57	REPLACE BOLTING	REPLACED STUDS	1	010231508	233	
03/24/81		CH	VALVS	1-CH-10	REPLACE BOLTING	REPLACED STUDS	1	010231530	3480	
03/24/81		CH	VALVS	-1-CH-14	REPLACE BOLTING	REPLACED STUDS	1	010231819	113	
03/24/81		RM	PIPING	RM-SS-113	DETECTOR HOUSING NEEDS TO BE TAKEN	REMOVED DETECTOR AND REPLACED AFTER	1	103110959	187	
03/24/81		FW	VALVS	MOV-FW-151C	REPACK VALVE	REPACKED VALVE	1	103230747	12	
03/24/81		FW	VALVS	MOV-FW-151S	REPACK VALVE	REPACKED VALVE	1	103230748	12	

UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTS SRVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	NR	TOTDNTH
03/25/81	CH	VALVE	1-CH-62	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010131658	3274
03/25/81	CH	VALVE	1-CH-22	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231753	3549
03/25/81	CH	VALVE	1-CH-25	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231755	3549
03/25/81	RH	VALVE	RV-1721	INSPECT AND SET PT 12.2	TESTED SAT INSTALLED	1	103100856	369
03/27/81	CH	VALVE	1-CH-51	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231506	195
03/27/81	CH	VALVE	1-CH-190	REPLACE BOLTING	REPLACED STUDS	1	010231513	193
03/27/81	CH	VALVE	1-CH-194	REPLACE BOLTING	PLACED STUDS AND NUTS IN VALVE	1	010231514	195
03/27/81	CH	VALVE	1-CH-189	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231516	195
03/27/81	CH	VALVE	1-CH-242	REPLACE BOLTING	REPLACED STUDS	1	010231517	193
03/27/81	CH	VALVE	1-CH-240	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231518	195
03/27/81	CH	VALVE	1-CH-5	REPLACE BOLTING	REPLACED STUDS	1	010231527	3580
03/27/81	CH	VALVE	1-CH-49	REPLACE BOLTING	REPLACED STUDS AND NUTS IN VALVE	1	010231654	195
03/27/81	CH	VALVE	1-CH-193	REPLACE BOLTING	REPLACED STUDS	1	010231730	27
03/27/81	CH	VALVE	1-CH-374	REPLACE DIAPHRAM IN VALVE	CHANGED DIAPHRAM	1	101021401	1873
03/27/81	BR	PUMP	1-BR-P-6A	PUMP FROZE UP	ADJUSTED THRUST	1	103232150	49
03/29/81	BD	PIPING	3-WGCB-1	D/C 79-S32C INSTALL SUPPORT	SUPPORT INSTALLED	1	004230714	2472
03/29/81	BD	PIPING	3-WGCB-1	D/C 79-S32C INSTALL SUPPORT MOD.	SUPPORT INSTALLED	1	007021017	2494
03/30/81	SI	VALVE	1-SI-145	REPLACE BOLTS	REPLACED BOLTS	1	010011353	47
03/30/81	SI	VALVE	1-SI-107	REPLACE BOLTS	REPLACED BOLTS	1	010011354	47
03/30/81	SI	VALVE	MOV-1864A	REPLACE BOLTS	REPLACED BOLTS	1	010011366	47
03/30/81	SI	VALVE	MOV-1864B	REPLACE BOLTS	REPLACED BOLTS	1	010011367	47
03/30/81	CH	VALVE	1-CH-38	REPLACE BOLTING	REPLACED BOLTS	1	010231502	3672
03/30/81	CH	VALVE	1-CH-3	REPLACE BOLTING	REPLACED BOLTS	1	010231525	3648
03/30/81	RL	VALVE	1-RL-1	REPLACE BOLTING	REPLACED BOLTS	1	010231903	1318
03/30/81	CH	MOV	MOV-1287C	REPLACE BOLTING	VOID VALVE TO BE REPLACED	1	101081230	0
03/30/81	CH	MOV	MOV-1287B	REPLACE BOLTING	VOID THIS VALVE TO BE REPLACED	1	101081231	0
03/30/81	CH	MOV	MOV-1287A	REPLACE BOLTING	VOID VALVE TO BE REPLACED	1	101081232	0
03/30/81	SW	PUMP	1-SW-P-10A	OVERHAUL SW PUMP	OVERHAUL PUMP	1	103211040	213

DSPT TOTAL

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTSSRVDT	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	NR	TOTLWNTM
03/01/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON RH BREAKERS H BUS	1	102140043	48
03/01/81	CH	HT		REPAIR OR REPLACE HEAT TAPS	REPLACED BAD HEAT TAPS AND HEATERS	1	102251000	43
03/02/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON CS BREAKERS H BUS	1	102140049	79
03/03/81	SPL	BREAKERS		PERFORM TSP5	COMPLETED TSP-5 AS BREAKERS H BUS	1	102140048	106
03/03/81	SPL	BREAKERS		PERFORM TSP5	COMPLETED TSP-5 SI BREAKERS H BUS	1	102140054	297
03/03/81	CH	HT	PNL-9-CKT-4A	REPAIR HEAT TAPS	REPLACED HEAT TAPS	1	102271155	5
03/03/81	VP	VALVS	TV-SV-102A	ADJUST TO PREFORM PT 16.4	ADJUSTED LIMIT SWITCHES	1	103020839	2
03/04/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON RC BREAKERS H BUS	1	102140042	96
03/08/81	FW	MOV	MOV-FW-151F	PERFORM PMS	PERFORMED AS PER PMS	1	009070116	18
03/08/81	FW	MOV	MOV-FW-151F	DISCONNECT AND RECONNECT FOR MECH	DISCON AND RECON	1	011191103	2594
03/10/81	RH	MOV	MOV-RH-100	PERFORM PMS	PERFORMED PMS ON MOV	1	009070040	20
03/11/81	FW	MOV	MOV-FW-151B	PERFORM PMS	PERFORMED PMS ON VALVS	1	009070117	107
03/11/81	FW	MOV	MOV-FW-151C	PERFORM PMS	PERFORMED PMS ON VALVS	1	009070119	13
03/14/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON RC BREAKERS	1	102140013	8
03/16/81	CS	MOV	CS-100A	REPLACE MOV COVER	REPLACED MOV COVER HARDWARE	1	103021321	15
03/16/81	CS	MOV	CS-100B	REPLACE MOV SW COVERS	REPLACED MOV HARDWARE ON COVER	1	103021323	15
03/16/81	RH	VALVE	FCV-1605	DISCONNECT ELEC LEADS	DISCONN AND RECON FCV-1600	1	103121024	95
03/18/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON CS BREAKERS	1	102140019	104
03/18/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON RH BREAKERS	1	102140025	6
03/18/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON SW BREAKERS	1	102140053	617
03/20/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON SW BREAKERS	1	102140010	648
03/20/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON PERSONNEL HATCH	1	102140036	31
03/20/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON CV BREAKERS	1	102140062	614
03/21/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON BREAKER	1	102140007	4
03/21/81	SPL	BREAKERS		PERFORM TSP5	COMPLETED TSP-5 ON IA BREAKERS	1	102140017	47
03/23/81	SW	MOV	MOV-SW-104D	PERFORM PMS	PERFORMED PMS ON MOV	1	009062258	3
03/23/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON DA BREAKERS J BUS	1	102140016	9
03/23/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON LO BREAKERS J BUS	1	102140022	9
03/24/81	SW	MOV	MOV-SW-104C	PERFORM PMS	PERFORMED PMS ON MOV	1	009062259	1848
03/24/81	SW	MOV	MOV-SW-104B	PERFORM PMS	PERFORMED PMS ON MOV	1	009062300	1078
03/24/81	SW	MOV	MOV-SW-104A	PERFORM PMS	PERFORMED PMS ON MOV	1	009062301	19
03/24/81	SPL	BREAKER		PERFORM TSP-5	PERFORMED TSP-5 ON HS BREAKER J BUS	1	102140009	2
03/24/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON PG BREAKERS J BUS	1	102140029	3
03/24/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON HS BREAKERS H BUS	1	102140037	9
03/24/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON GW BREAKERS H BUS	1	102140039	7
03/24/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON DA BREAKER H BUS	1	102140046	5
03/24/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON PG BREAKERS H BUS	1	102140057	2
03/25/81	SI	PMP MTR	1-SI-P-1A	PERFORM PMS ON MOTOR	VOID COMPLETE ON MR 1010161512	1	009151300	0
03/26/81	SI	MOTOR	1-SI-P-1B	DISCONNECT + RECONNECT FOR MECH	WORK WILL BE COMPL ON NSW MR	1	010161611	3828
03/26/81	SPL	BREAKER		PERFORM TSP-5	VOID PERFORMED ON MR 2202140036	1	102140008	0
03/26/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON VS BREAKERS J BUS	1	102140033	521
03/26/81	SPL	BREAKERS		PERFORM TSP5	PERFORMED TSP-5 ON FW BREAKERS H BUS	1	102140051	619
03/27/81	CC	VALVS	TV-CC-109A	DISCONNECT VALVS	VOID DONS ON HANDWRITTEN MR	1	103231631	0
03/30/81	SW	PUMP	1-SW-P-10B	PUMP THERMALED OUT	DESIGN CHANGE BY DANIELS	1	010170647	3938
03/31/81	RH	MOV	MOV-1700	PERFORM PMS	PERFORMED PMS	1	009070039	23
03/31/81	RC	PMP MTR	1-RC-P-1A	CHNG OIL-SWING CHECK-REMOVE FLYWHEEL	VOID PERFORMED ON MRS1008271710	1	804180805	0
03/31/81	RC	MOV	MOV-RC-1585	CLEAN+INSPECT	VOID WORK PERFORMED ON MR S100907004	1	805011117	0

DEPT=SLSC

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UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RSTSRVDT	SYS	COMP	MARKNO	SUMMARY	WKPSRF	U	MR	TOTDWNTH
03/31/81	RC	MOV	MOV-RC-1586	CLEAN+INSPECT	VOID PERFORMED ON MRS1009070047	1	805011118	0
03/31/81	RC	MOV	MOV-RC-1587	CLEAN+INSPECT	VOID WORK PERFORMED ON MR S100907005	1	805011119	0
03/31/81	BR	MOV	MOV-BR-101B	CLEAN+INSPECT	VOID WORK PERFORMED ON MR S191203140	1	805040807	0
03/31/81	CS	MOV	MOV-CS-100B	CLSAN+INSPECT	VOID WORK PERFORMED ON MRS1009062136	1	805040822	0

DEPT TOTAL								17555

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

None during this reporting period.

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

DSPT=INST

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UNIT1- 4/02/81
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDNTM
03/03/81	BR	INSTR	FI-BR-132	NO FLOW INDICATION	REPLACED CONVERTER UNIT	1	009030902	4308
03/04/81	CH	INSTR	PI-1105B	PRESSURE INDICATION SEEMS LOW	VOID DONE ON PREV MR	1	102250716	0
03/11/81	RN	INSTR	RM-SW-114	DOES NOT RESPOND TO CHECK SOURCE	CLEANED CHECK SOURCE	1	009210336	2
03/11/81	CS	INSTR	GA-131A	DISCHARGE PRESSURE GAUGE	VOID SAME AS PREV MR	1	011110300	0
03/11/81	CS	INSTR	GA-131B	DISCHARGE PRESSURE GAUGE	VOID SAME AS PREV MR	1	011110301	0
03/12/81	GW	INSTR	GW-101	CALIB VACUUM GAUGE	GAUGE IN SPEC NO ADJUSTMENT	1	103110445	10
03/23/81	SI	INSTR	FI-1934	INDICATOR READS LOW	VOID COMPLETED ON PREV MR	1	103110755	0
03/25/81	NI	POWER	NM-307	ISOLATION AMP DEFECTIVE	FOUND SHORTED LEADS ON NM412A	1	103211140	38
03/25/81	RH	INSTR		CHECK PRESSURE GAUGES	CHECKED AND REPLACED GAUGES	1	103221600	34
03/31/81	CS	INSTR	FI-CS-104	REPLACE LOCAL FLOW INDICATOR	INSTALLED NEW FLOW INDICATOR	1	009181001	144

DSPT TOTAL

4536

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

None during this reporting period.

March, 1981

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.

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

March, 1981

None during this reporting period.