

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 79-03

MARCH, 1979

APPROVED:

W. D. Stewart  
MANAGER

7904130192

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-1-  
OPERATING DATA REPORT

DOCKET NO. 50-280  
DATE 04 APR 79  
COMPLETED BY O.J. COSTELLO  
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1		
2. REPORTING PERIOD	0001 3/1/79 TO 2400 3/31/79		
3. LICENSED THERMAL POWER (MWT)	2441	NOTES	
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		
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	54984.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	337.5	1713.6	37413.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	337.0	1711.7	36570.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	816348.0	4159817.0	84515570.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	263040.0	1335155.0	27642738.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	250110.0	1268264.0	26239983.0
19. UNIT SERVICE FACTOR	45.3 %	79.2 %	66.5 %
20. UNIT AVAILABILITY FACTOR	45.3 %	79.2 %	66.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	43.4 %	75.8 %	61.6 %
22. UNIT CAPACITY FACTOR (USING DER NET)	40.9 %	71.4 %	58.1 %
23. UNIT FORCED OUTAGE RATE	54.7 %	20.8 %	16.6 %
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	WHEN PIPE STRESS PROBLEM RESOLVE		
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)	FORECAST      ACHIEVED		
INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION			

-2-  
OPERATING DATA REPORT

DOCKET NO. 50-281  
DATE 04 APR 79  
COMPLETED BY O.J. COSTELLO  
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	0001 3/1/79 TO 3/31/79
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
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	51864.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	819.4	34499.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	818.9	33996.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	1957906.0	79194083.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	644305.0	25868844.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	611521.0	24536605.0
19. UNIT SERVICE FACTOR	0.0	37.9 %	65.5 %
20. UNIT AVAILABILITY FACTOR	0.0	37.9 %	65.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	36.5 %	61.0 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	34.4 %	57.6 %
23. UNIT FORCED OUTAGE RATE	0.0	0.0	21.0 %
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      AUG. 21, 1979

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

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MARCH 1979

DOCKET NO. 50-280  
 UNIT NAME Surry 1  
 DATE April 2, 1979  
 COMPLETED BY O. J. Costello  
 TELEPHONE (804) 357-3184

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
79-2	3-15-79	F	407	D	1				<p>Shutdown due to Show-Cause Order issued by Nuclear Regulatory Commission concerning possible error in piping stress analysis performed by Stone &amp; Webster.</p> <p>Analysis being reperformed for submittal to NRC.</p>

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 Q - 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 1979

DOCKET NO. 50-281  
 UNIT NAME Surry 2  
 DATE April 2, 1979  
 COMPLETED BY O. J. Costello  
 TELEPHONE (804) 357-3184

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
79-2	3-1-79	S	744	C	1				Continuation of shutdown for refueling and steam generator replacement outage, began on 2-4-79.  Expected date of outage completion is 08-21-79.

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

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1.

MONTH: MARCH, 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: MARCH, 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 4-1-78  
 COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MARCH 1978

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	746.3	17	0.0
2	749.4	18	0.0
3	748.8	19	0.0
4	744.4	20	0.0
5	747.7	21	0.0
6	750.5	22	0.0
7	748.0	23	0.0
8	748.7	24	0.0
9	744.5	25	0.0
10	747.0	26	0.0
11	748.4	27	0.0
12	748.6	28	0.0
13	747.0	29	0.0
14	699.1	30	0.0
15	3.0	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 4-1-78  
 COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MARCH 1978

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.

SUMMARY OF OPERATING EXPERIENCE

MARCH, 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

- March 1 - This report begins with the unit at 100% power.
- March 13 - At 2040 received NRC Show Cause Order requiring unit shutdown to cold shutdown within 48 hours.
- March 14 - Commenced 150 MWe/hour rampdown at 2002.
- March 15 - Manually tripped turbine at 0100. At 0128 manually tripped reactor. Unit reached 350°F - 450 psig at 0800 and was at cold shutdown at 1200.
- March 31 - This reporting period ends with the unit at cold shutdown.

UNIT 2

- March 1 - This report begins with the unit at cold shutdown, and all fuel removed from reactor as part of steam generator repair outage.
- March 31 - This reporting period ended with the unit at cold shutdown.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

MARCH, 1979

On March 13, 1979, the Nuclear Regulatory Commission issued a Show Cause Order for Surry Power Station Unit Nos. 1 and 2. The Orders are issued because of potential piping deficiencies in safety related systems. Of significance, the orders require we show the following:

1. Why the Licensee should not analyze the facility piping systems for seismic loads on all potentially affected safety systems using an appropriate piping analysis computer code which does not combine loads algebraically.
2. Why the Licensee should not make any modifications to the facility piping systems indicated by such reanalysis to be necessary.
3. Why facility operation should not be suspended pending such reanalysis and completion of any required modifications.

In view of the importance to safety of this matter, as described herein, the Director of the Office of Nuclear Reactor Regulation has determined that the public health and safety or interest require that this action be effective immediately, pending further Order of the Commission. Accordingly, within 48 hours of the receipt of this Order, the facility shall be placed in cold shutdown condition and shall remain in such mode until further Order of the Commission.

The Licensee may, within twenty days of the date of this Order, file a written answer to this Order under oath or affirmation. Within the same time, the Licensee or any interested person may request a hearing. If a hearing is requested, the Commission will issue an Order designating the time and place for hearing. Upon failure of the Licensee to file an answer within the time specified, the Director, Office of Nuclear Reactor Regulation will, without further notice, issue an order suspending further activities under Operating Licenses DPR-32 and DPR-37.

In the event a hearing is requested, the issues to be considered at such hearing shall be:

Whether operation under Facility License Nos. DPR-32 and DPR-37 should be suspended until (1) the piping systems for all affected safety systems are reanalyzed for earthquake events using an appropriate piping analysis computer code which does not combine seismic loads algebraically, and until (2) any modifications required to restore the system to conformance with applicable ASME Code requirements are completed.

On February 23, 1979, the Nuclear Regulatory Commission issued amendment Nos. 48 and 47 to the Operating License for the Surry Power Station Unit Nos. 1 and 2, respectively. The amendment from the NRC Staff's review and approval of the Surry Power Station Physical Security Plan. Of significance, the conditions have the following provisions:

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS  
(CONTINUED)

"The licensee shall maintain in effect and fully implement all provisions of the Commission-approved physical security plan, including amendments and changes made pursuant to the authority of 10 CFR 20.54(p). The approved security plan consists of documents withheld from public disclosure pursuant to 10 CFR 2.790(d), referred to as Surry Power Station Unit Nos. 1 and 2 Physical Security Plan, dated November 30, 1977, as revised September 25, 1978, supplemented (Chapter 10) October 25, 1978, revised January 12, 1979, and supplemented February 16, 1979."

In addition when all aspects of our approved plan have been implemented, NRC requests that VEPCO notify both the Office of Inspection and Enforcement and the Office of Nuclear Reactor Regulation, at which time a compliance inspection will be scheduled by the Office of Inspection and Enforcement.

Furthermore, changes which would not decrease the effectiveness of our approved security plan may be made without approval by the Commission pursuant to the authority of 10 CFR 50.54(p). A report containing a description of each change shall be furnished to the Director, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, with a copy to the appropriate NRC Regional Office within two months after the change is made. Records of changes made without Commission approval shall be maintained for a period of two years from the date of the change.

FACILITY CHANGES REQUIRING  
NRC APPROVAL

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.

FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.

TESTS AND EXPERIMENTS REQUIRING  
NRC APPROVAL

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.

TEST AND EXPERIMENTS THAT  
DID NOT REQUIRE NRC APPROVAL

MARCH, 1979

	<u>Unit</u>
<u>ST-31</u> <u>Service Water Subsystems Data Acquisition Test</u>	1,2

The Service Water Subsystem Data Acquisition Test was conducted on 12-27-78. Unit No. 1 was shutdown and Unit 2 was at 100% power. Data was taken at levels between 20'5" and 25'5". This test was designed to determine the pressure head variance with canal level changes.



OTHER CHANGES, TESTS AND EXPERIMENTS

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.

SURRY POWER STATION

CHEMISTRY REPORT

MARCH, 1979

T.S.6.6.A.11

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	5.55E-1	1.68E-2	2.53E-1	8.44E-3	8.64E-4	2.97E-3
Suspended Solids, ppm	0.3	0.1	0.1	0.5	0.0	0.1
Gross Tritium, $\mu\text{Ci/ml}$	2.95E-1	6.75E-2	1.92E-1	* ---	* ---	* ---
Iodine-131, $\mu\text{Ci/ml}$	5.36E-1	3.07E-3	5.29E-2	* ---	* ---	* ---
I-131/I-133	0.8663	0.1466	0.3029	* ---	* ---	* ---
Hydrogen, cc/kg	50.0	4.95 (1)	27.6	* ---	* ---	* ---
Lithium, ppm	2.20	0.88	1.63	0.72	0.40	0.52
Boron-10, ppm +	263.2	81.9	188.8	271.8	151.5	215.8
Oxygen-16, ppm	4.5 (2)	0.000	1.00	16.6 *	0.9	6.0
Chloride, ppm	0.09	0.05	0.05	0.05	0.05	0.05
pH @ 25°C	7.17	5.87	6.50	6.11	5.80	5.97

+ Boron-10 = Total Boron x 0.196

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

Phosphate	<u>128 lbs</u>	Boron	<u>520</u>
Sulfate	<u>668 lbs</u>	Chromate	<u>1.84</u>
50% NaOH	<u>768 lbs</u>	Chlorine	<u>0</u>

Remarks: \* Rx shutdown for steam generator outage.

(1) -1Rx degassed for Unit Shutdown 3-15-79

(2) -1Rx <250°F, Unit Shutdown

DESCRIPTION OF ALL INSTANCES WHERE  
THERMAL DISCHARGE LIMITS WERE EXCEEDED

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.

FUEL HANDLING

MARCH, 1979

There were 12 new fuel assemblies received as part of the upcoming refueling of Unit 2. All were removed from the shipping containers and stored in the new fuel area.

[illegible]

NEW OR SPENT FUEL  
SHIPPING CASK ACTIVITY LEVEL

PROCEDURE REVISIONS THAT CHANGED THE  
OPERATING MODE DESCRIBED IN THE FSAR

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.

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

MARCH, 1979

- PT-24.1      Fire Protection Water Pump Test was conducted one day beyond the authorized period. The test requires the operability of both the motor driven and diesel driven fire pumps be demonstrated weekly as recommended by NELPIA.
- PT-24.4H      The monthly check that all Fire Protection Hose Houses and Hydrants are properly equipped and operational was not conducted as scheduled (2-3-79). This common unit test completed on 2-20-79 determined the system was capable of performing its intended function.



INSERVICE INSPECTION

MARCH, 1979

An eddy current gaging inspection was performed in Unit #1 A, B, and C Steam Generators, in accordance with VEPCO NDT Procedure 14.1. Eddy current inspections were performed at 100KHZ and 400KHZ using .650, .610 and .540 probes.

As a result of the eddy current inspection the following number of tubes were plugged:

A Steam Generator

5

B Steam Generator

1

C Steam Generator

22

An eddy current inspection is in progress on the Unit #2 Feedwater Heaters.

The baseline eddy current inspection of replacement steam generator #2971 is complete.

REPORTABLE OCCURRENCES PERTAINING TO  
ANY OUTAGE OR POWER REDUCTIONS

MARCH, 1979

Unit No. 1 outage occurred on March 14, 1979, as a result of a Show Cause Order issued March 13, 1979, by the NRC because of a faulty pipe stress analysis. The details of this are contained in LER 79-004/01T-0.

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

DEPT-MECH

UNIT1- 4/02/79

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWTM
03/19/79	RC	VALVE	1-SOV-1556B	REPLACE WHEN SOV ARRIVES	REPLACED SOV	1	806090715	6
03/19/79	RS	PIPING	LI-RS-251	SCREENS IN SUMP LOOSE NOT BOLTED	INSTALLED SCREEN	1	812301120	48
03/19/79	MS	VALVE	1-MS-181	PACKING LEAK	REPACKED VALVE	1	901151135	34
03/19/79	MS	VALVE	1-MS-378	PACKING LEAK	REPACKED VALVE	1	901151139	8
03/19/79	MS	VALVE	1-MS-215	PACKING LEAK	REPACKED VALVE	1	901151141	8
03/19/79	MS	VALVE	1-MS-111	PACKING LEAK	REPACKED VALVE	1	901151144	8
03/19/79	MS	VALVE	1-MS-107	PACKING LEAK	REPACKED VALVE	1	901151146	34
03/19/79	MS	VALVE	NRV-MS-101B	PACKING LEAK	ADJUSTED PACKING	1	901151147	34
03/19/79	MS	TRIP VLV	TV-MS-101B	PACKING LEAK WESTSIDE OF STEM	REPACKED VALVE	1	901230252	8
03/19/79	MS	VALVE	1-MS-268	PACKING LEAK	REPACKED VALVE	1	901230253	8
03/19/79	MS	VALVE	1-MS-266	PACKING LEAK	REPACKED VALVE	1	903151254	8
03/19/79	MS	VALVE	1-MS-76	PACKING LEAK	REPACKED VALVE	1	903151256	8
03/19/79	RC	VALVE	HCV1556B	PACKING LEAK	TIGHTENED PACKING GLAND NUTS	1	903151402	5
03/20/79	MS	CALVE	1-MS-149	NEEDS REPACKING	REPACKED VALVE	1	812302322	4
03/20/79	MS	PIPING		FLANGE LEAK TRAP INLET	REPLACED GASKETS	1	901151137	8
03/21/79	MS	VALVE	1-MS-106	PACKING LEAK	REPACKED VALVE	1	901151145	12
03/21/79	MS	CONT	PI-SS-101C	C STM GEN PRESS REG	CHECKED GAUGE	1	902130742	48
03/21/79	MS	VALVE	1-MS-108	PACKING LEAK	REPACKED VALVE	1	903151238	24
03/21/79	CH	PUMP	1-CH-P-2A	THERM IN FAST SPEED	REPLACED MECHANICAL SEAL	1	903171035	105
03/21/79	BR	FCV	FCV-BR-101A	VALVE LEAKING ON HEAT TRACING	REPLACED GLAND NUT STUDS	1	903171500	30
03/21/79	MS	MOV	MOV-102	REPAIR VALVE	RECONDITIONED VALVE	1	903190931	42
03/22/79	MS	PIPING		FLANGE LEAK TRAP INLET	RENEWED GASKET	1	901151138	30
03/22/79	MS	STM TRAP		UNION ON TRAP LEAKS	REPLACED UNION	1	903151250	36
03/22/79	CH	VALVE	HCV-1200A	AIR LEAK ON SOLENOID VALVE	REPLACED WITH NEW VALVE	1	903201510	11
03/23/79	SW	STRAINER	1-CW-S-4	BLOW DOWN VALVE WILL NOT OPERATE	REPLACED WITH NEW VALVE	1	807020810	96
03/23/79	CH	VALVE	RV1203	RV LEAKING TO ATMOSPHERE	OVERHAULED VALVE	1	903151201	94
03/23/79	MS		PW-MS-102	REPAIR VALVE	RECONDITIONED VALVE	1	903190932	106
03/24/79	BR	PIPING	1 1/2HR-83-1	PIN HOLE LEAKS	REPLACED PIPE SECTIONS	1	903210630	74
03/26/79	MS	VALVE	1-MS-144	PACKING LEAK	REPACKED VALVE	1	901151143	35
03/26/79	MS	VALVE	1-MS-80	PACKING LEAK	REPLACED VALVE	1	903151229	37
03/26/79	MS	VALVE	1-MS-208	PACKING LEAK	REPACKED VALVE	1	903151246	35
03/26/79	HSS	SNUBBER	1-SHP-13A	REPLACE SNUBBER 4 INCH	REPLACED SNUBBER WITH REBUILT	1	903202146	41
03/27/79	CC	PUMP	1-CC-P-2A	ANNUAL PMS	PERFORMED PMS INSPECTION	1	901291446	2
03/27/79	HSS	SNUBBER	1-WAPD-143A	REPLACE SNUBBER 1 1/2 INCH	REPLACED SNUBBER WITH REBUILT	1	903202142	65
03/27/79	HSS	SNUBBER	1-WAPD-141B	REPLACE SNUBBER 1 1/2 INCH	REPLACED SNUBBER WITH REBUILT	1	903202143	65
03/27/79	HSS	SNUBBER	1-WFPD-1	REPLACE SNUBBER 2 1/2 INCH	REBUILT SNUBBER	1	903202144	65
03/27/79	HSS	SUBBER	1-SHP-3A	REPLACE SNUBBER 3 1/2 INCH	REPLACED SNUBBER WITH REBUILT	1	903202147	65
03/29/79	HSS	SNUBBER	1-SHP-20	REPLACE SNUBBER 4 INCH	REPLACED SNUBBER WITH EP MATERIAL	1	903202145	23
03/29/79	CH	PUMP	1-CH-P-2C	INSTALL COUPLING COVERS ON C TRANSFER	REPLACED COUPLING COVER	1	902121119	3
03/29/79	CH	PUMP	1-CH-P-2D	INSTALL COVERS ON D TRANSFER PMPS	REPLACED COUPLING COVERS	1	902121120	3
03/29/79	CH	PUMP	1-CH-P-2C	PUMP HAS OIL LEAK	REPAIRED LAK	1	902161330	1
03/29/79	BS	DOOR	615	REPAIR THRESHOLD	REPAIRED THRESHOLD	1	903281116	1
03/30/79	CH	VALVE	1-CH-314	PACKING LEAK	ADDED PACKING	1	903151401	29

DEPT TOTAL

1407

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

DEPT-MECH

UNIT2- 4/02/79

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

RET/SEV/DT	SYG	COMP	MARKNO	SUMMARY	WKTRF	U	MR	TOT/DWNTM
03/01/79	CV	VALVE	2-CV-1	LEAKS THRU	LAP GATE SEAT CHANGE GASKET	2	902201545	201
03/03/79	SI	MOV	MOV-2862A	LEAKS THRU	CLEANED+ADJUSTED VALVE	2	902042335	123
03/03/79	SI	MOV	MOV-2862	LEAKS THRU	CLEANED+ADJUSTED VALVE	2	902042340	123
03/03/79	MS	VALVE	2-MS-10	RECONDITON AND RESEAT VALVE	RECONDITION VALVE	2	902250001	57
03/03/79	MS	VALVE	2-MS-341	RECONDITON AND RESEAT VALVE	RECONDITION VALVE	2	902250007	57
03/03/79	MS	VALVE	2-MS-338	RECONDITON+RESEAT VALVE	RECONDITION VALVE	2	902250009	57
03/03/79	MS	VALVE	2-MS-8	RECONDITON+RESEAT VALVE	RECONDITION VALVE	2	902250010	57
03/03/79	MS	VALVE	2-MS-6	RECONDITON+RESEAT VALVE	RECONDITION VALVE	2	902250012	57
03/05/79	EE	COMPRESS	2-EE-C-1	REPLACE BELTS ON MOTOR	RENEWED BELTS+ALIGNED PULLEY	2	903010945	72
03/06/79	MS	VALVE	2-MS-346	RECONDITON+RESEAT VLV	RECONDITIONED VALVE	2	902250004	139
03/06/79	MS	VALVE	2-MS-347	RECONDITON+RESEAT VALVE	RECONDITIONED VALVE	2	902250005	139
03/06/79	MS	VALVE	2-MS-343	RECONDITON+RESEAT VALVE	RECONDITIONED VALVE	2	902250006	139
03/06/79	MS	VALVE	2-MS-342	RECONDITON+RESEAT VALVE	RECONDITIONED VALVE	2	902250008	139
03/06/79	MS	VALVE	2-MS-7	RECONDITON+RESEAT VALVE	RECONDITION VALVE	2	902250011	121
03/06/79	CH	VALVE	2-CH-210	HANDWHEEL SPINS NOT MOVING VALVE	RENEWED BONNET ASSY	2	903051200	24
03/07/79	CH	VALVE	2-CH-170	REPLACE DIAPHRAGM	REPAIRED VALVE	2	902161151	3
03/07/79	CH	VALVE	2-CH-223	REPLACE DIAPHRAGM	REPAIRED VALVE	2	902161314	23
03/07/79	CH	VALVE	2-CH-224	REPLACE DIAPHRAGM	REPAIRED VALVE	2	902161315	23
03/07/79	MS	VALVE	2-MS-75	RECONDITON+RESEAT VLV	REPAIRED VALVE	2	902250026	163
03/07/79	MS	VALVE	2-MS-107	RECONDITON+RESEAT VLV	RECONDITION VALVE	2	902250028	146
03/07/79	MS	VALVE	2-MS-148	RECONDITON+RESEAT VLV	RECONDITION VALVE	2	902250034	261
03/08/79	CC	HX	1-CC-HX-C	CLEAN SW SIDE	CLEANED	2	903081534	2
03/09/79	CH	MOV	MOV-2289A	BODY TO BONNET LEAK	REPAIRED BONNET LEAK+REPACKED	2	806061516	46
03/09/79	CH	MOV	MOV2289B	BODY TO BONNET LEAK	REPLACED BONNET GASKET+REPACKED	2	806061517	46
03/09/79	CH	MOV	MOV2370	BODY TO BONNET LEAK	REPLACED BONNET GASKET+REPACKED	2	806061519	52
03/09/79	CH	VALVE	2-CH-294	PACKING LEAKS-REPACK	REPACKED VALVE	2	901161455	21
03/09/79	CH	VALVE	RV-2382B	FLANGE LEAKS	REPLACED FLANGE GASKET	2	901161456	13
03/09/79	CH	VALVE	RV2209	FLANGE LEAK	REPLACED FLANGE GASKETS	2	901161457	13
03/09/79	CH	VALVE	2-CH-273	REPACK VALVE	REPACKED VALVE	2	901161458	21
03/09/79	CH	VALVE	2-CH-305	REPACK VALVE	REPACKED VALVE	2	901161500	47
03/09/79	CH	VALVE	2-CH-297	PACKING LEAK	REPACKED VALVE	2	901161502	21
03/13/79	MS	MOV	MOV-MS-202	RECONDITON+RESEAT VALVE	RECONDITION VALVE	2	902250002	284
03/13/79	MS	VALVE	PCV-MS-202	RECONDITON+RESEAT VALVE	RECONDITION VALVE	2	902250003	284
03/14/79	DG	VALVE	2-DG-03	REPLACE DIAPHRAGM	REWORKED VALVE	2	902161026	24
03/14/79	DG	VALVE	2-DG-04	REPLACE DIAPHRAGM	REWORKED VALVE	2	902161027	24
03/15/79	DG	VALVE	2-DG-05	REPLACE DIAPHRAGM	REWORKED VALVE	2	902161028	24
03/16/79	SI	PIPING		WELD TEE DOWNSTREAM SI 250	RELOCATED GAUGE WITH TUBING	2	901110001	11
03/18/79	MS	PIPING		INSTALL ORIFICE BLOCK	INSTALLED ORIFICE BLOCKS	2	902271120	454
03/22/79	RS	MOV	MOV-RS-256A	EXCESSIVE LEAKAGE ON PT 16.4	REPAIRED VALVE	2	902280850	409
03/24/79	MS	VALVE	2-MS-87	PACKING LEAK	REPACKED VALVE 2/13/79	2	901220710	1008
03/27/79	CS	VALVE	MOV-CS-201A	INSPECTION OF VALVE	INSPECTED VALVE	2	903201010	115
03/27/79	SW	PUMP	2-SW-P-10A	PUMP MAKES SEVERE NOISE	REPLACED WITH REBUILT PUMP	2	903261930	6
03/28/79	RM	MONITOR	RM5259	PUMP DOES NOT PUMP	REPLACED PUMP	2	903280600	4
03/30/79	SI	VALVE	2-SI-201	REORLET VALVE HORIZONTALLY	FIXED VALVE IN HORZ POSITION	2	812141225	673

DEPT TOTAL

5726

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

DEPT=ELEC

UNIT1- 4/02/79

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

RETSERVD	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDNTM
03/16/79	RS	INST	LS-RS-101B	CHECK FOR PROPER OPERATION	RECONNECTED LEAD	1	811141911	2856
03/16/79	RS	INST	LS-RS-101A	CHECK FOR PROPER OPERATION	RECONNECTED LEAD	1	811141912	2858
03/21/79	CH	HEAT TRA	PNL8+9CK+25	REPLACE STRIP HTNS DR 1-CH-P-2A	REPLACED STRIP HEATERS PNL 0	1	903201915	20
03/27/79	CH	VALVE	HCV-1200A	VALVE WILL NOT OPEN	REPLACED SOLENOID VALVE	1	903151200	172
03/29/79	CR	CRANE	1-CR-13	REPAIR WARNING BELL	REPLACED NEW BELL+TESTED	1	903191205	201
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DEPT TOTAL								6107



Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

DEIT=ELEC

UNIT2 4/02/79

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

RET/SERVDT	SYS	COMP	MARKNO	SUMMARY	WKP/PERF	U	MR	TOT/DWNTM
03/08/79	EPH	BREAKER	25A4	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251316	319
03/08/79	EPH	BREAKER	25B4	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251327	542
03/08/79	EPH	BREAKER	25C4	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251330	546
03/08/79	RT	RELAY	25A4	RT PMS	PERFORMED EMP-P-RT-152	2	901261441	71
03/08/79	RT	RELAY	25B4	RT PMS	PERFORMED EMP-P-RT-153	2	901261442	71
03/08/79	RT	RELAY	25C4	RT PMS	PERFORMED EMP-P-RT-153	2	901261443	45
03/08/79	RT	RELAY	25A5	RT PMS	PERFORMED EMP-P-RT-155	2	901261444	24
03/08/79	RT	RELAY	25A6	RT PMS	PERFORMED EMP-P-RT-158	2	901261447	97
03/08/79	RT	RELAY	25B6	RT PMS	PERFORMED EMP-P-RT-159	2	901261448	24
03/12/79	CH	MOV	MOV-2289B	MOV PMS	COMPLETED PMS	2	901251453	95
03/12/79	RT	RELAY	25B8	RT PMS	PERFORMED EMP-P-RT-164	2	901261453	71
03/13/79	EPL	BREAKER	24J4	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251308	30
03/13/79	EPL	BREAKER	24J8	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251310	32
03/13/79	CH	MOV	MOV-2289A	MOV PMS	COMPLETED PMS	2	901251452	85
03/13/79	RT	RELAY	25J9	RT PMS	PERFORMED EMP-P-RT-58	2	901261404	97
03/13/79	RT	RELAY	25J11	RT PMS	PERFORMED EMP-P-RT-60	2	901261406	98
03/13/79	RT	RELAY	25H1	RT PMS	PERFORMED EMP-P-RT-82	2	901261426	95
03/14/79	EPH	BREAKER	25J10	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251358	134
03/14/79	EPH	BREAKER	25J5	BREAKER PMS	CLEANED AND TESTED	2	901251402	303
03/14/79	MS	MOV	MOV-MS-202	MOV PMS	COMPLETED ALL STEPS OF EMP-P-MOV-45	2	901251547	23
03/14/79	RT	RELAY	25J10	RT PMS	PERFORMED EMP-P-RT-64	2	901261410	46
03/14/79	RT	RELAY	25J3	RT PMS	PERFORMED EMP-P-RT-73	2	901261419	45
03/15/79	EPH	BREAKER	25J3	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251404	408
03/15/79	RT	RELAY	25J8	RT PMS	PERFORMED EMP-P-RT-80A	2	901261424	49
03/16/79	EPL	BREAKER	24J3	BREAKER PMS	CLEANED+INSPECTED BREAKER	2	901251307	142
03/16/79	EPL	BREAKER	24J7	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251309	142
03/16/79	EPL	BREAKER	24J9	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251311	146
03/16/79	EPH	BREAKER	25D8	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251324	452
03/16/79	EPH	BREAKER	25H1	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251347	432
03/16/79	EPH	BREAKER	25J11	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251357	194
03/16/79	EPH	BREAKER	25J9	BREAKER PMS	CLEANED+TESTED MOTOR	2	901251400	194
03/16/79	EPH	BREAKER	25J8	BREAKER PMS	CLEANED+INSPECTED BREAKER	2	901251405	35
03/16/79	MS	MOV	MOV-MS-202	DISCONNECT FOR MECHANICS	COMPLETED ALL STEPS OF EMP-C-MOV-11	2	903042150	274
03/17/79	RT	RELAY	25J7	RT PMS	PERFORMED EMP-P-RT-65	2	901261411	24
03/17/79	RT	RELAY	25B5	RT PMS	PERFORMED EMP-P-RT-156	2	901261445	215
03/17/79	RT	RELAY	25C5	RT PMS	PERFORMED MAINTENANCE AS PER EMP-P-RT	2	901261446	215
03/19/79	EPH	BREAKER	25B5	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251326	40
03/19/79	EPH	BREAKER	25C5	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251332	132
03/20/79	EPH	BREAKER	25J7	BREAKER PMS	COMPLETED PMS+TESTED BREAKER	2	901251401	96
03/20/79	RT	RELAY	2J UV	RT PMS	PERFORMED EMP-P-RT-87	2	901261428	144
03/21/79	EPL	BREAKER	24H4	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251303	14
03/21/79	EPL	BREAKER	24H9	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251306	14
03/21/79	RT	RELAY	25H11	RT PMS	PERFORMED EMP-P-RT-59	2	901261405	42
03/21/79	RT	RELAY	25H10	RT PMS	PERFORMED EMP-P-RT-61	2	901261407	44
03/21/79	RT	RELAY	25A10	RT PMS	PERFORMED EMP-P-RT-167	2	901261457	164
03/23/79	EPL	BREAKER	24H3	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251302	29
03/23/79	EPL	BREAKER	24H5	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251304	29

DEPT=ELEC

UNIT2- 4/02/79

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

RETSERVD	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	NR	TOTDWTM
03/23/79	EPL	BREAKER	24H7	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251305	39
03/23/79	RT	RELAY	EDG2 DIFF	RT PMS	PERFORMED EMP-P-RT-76	2	901261421	76
03/23/79	RT	RELAY	2H UV	RT PMS	PERFORMED EMP-P-RT-86	2	901261427	51
03/24/79	EPH	BREAKER	25A10	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251315	51
03/24/79	EPH	BREAKER	25C6	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251333	972
03/24/79	EPH	BREAKER	25C9	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251335	255
03/24/79	EPH	BREAKER	25H3	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251349	89
03/24/79	EPH	BREAKER	25H8	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251350	89
03/24/79	EPH	BREAKER	25H10	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251351	40
03/24/79	EPH	BREAKER	25H9	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251352	56
03/24/79	EPH	BREAKER	25H11	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251355	712
03/24/79	EPH	BREAKER	25H7	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251356	87
03/27/79	EPL	BREAKER	24H2	BREAKER PMS	CLEANED+TESTED BREAKER	2	901251301	127
03/30/79	RT	RELAY	25G2	RT PMS	PERFORMED EMP-P-RT-169	2	901261459	53
03/30/79	RT	RELAY	25G7	RT PMS	PERFORMED EMP-P-RT-173	2	901261503	100
DEPT TOTAL								9429

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

DEPT=INST

UNIT1- 4/02/79

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

RETSERVDY	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWTM
03/15/79	DR	INST	PR-DR-130	PEN NOT RESPONDING	OVERHAULED RECORDER	1	903120930	52
03/21/79	DR	INST	FT-DR-132	TRANSMITTER FAILED LOW	INSTALLED NEW TRANSMITTER	1	901050801	1675
03/29/79	RM	MONITOR	R1-SW-120	READING VARIES CONSTANTLY NO REASON	PROBLEM WITH CABLES	1	903232000	65
DEPT TOTAL								1792

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

DEIT=INST

UNIT2- 4/02/79

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

RETSERVD	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWTM
03/06/79	RC	CONT	2-RC-P-1A	REPLACE BNG LIFT OIL PRESS SWITCH	FIX SAT	2	810132315	96
03/19/79	CH	INST	LI-102	CALILRATE	ADJUSTED ZERO ON ADJACENT XMITTER	2	903181215	3
03/27/79	RH	INST	FT-1605	SPURIOUS LOW FLOW ALARMS	CHECKED LOW FLOW ALARM	2	903230720	97
								196
DEIT TOTAL								

-37-  
HEALTH PHYSICS

MARCH, 1979

There was no single release of radioactivity specifically associated with an outage that accounted for more than 10% of the allowable annual values in 10CFR20.

There was 1 individual who received a single radiation exposure specifically associated with Unit #1 outage, which accounted for more than 10% of the allowable annual values in 10CRR20.101.



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

MARCH, 1979

NONE DURING THIS REPORTING PERIOD.