

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 80-01

JANUARY, 1980

APPROVED:

William L Stewart  
MANAGER

8002190762

CONTENTS

<u>Section</u>	<u>Page</u>
Operating Data Report - Unit #1	1
Operating Data Report - Unit #1 - Corrected Copy month of December	1a
Operating Data Report - Unit #2	2
Unit Shutdowns and Power Reductions - Unit #1	3
Unit Shutdowns and Power Reductions - Unit #2	4
Load Reductions Due to Environmental Restrictions - Unit #1	5
Load Reductions Due to Environmental Restrictions - Unit #2	6
Average Daily Unit Power Level - Unit #1	7
Average Daily Unit Power Level - Unit #2	8
Summary of Operating Experience	9
Amendments to Facility License or Technical Specifications	10
Facility Changes Requiring NRC Approval	11
Facility Changes That Did Not Require NRC Approval	12
Tests and Experiments Requiring NRC Approval	14
Tests and Experiments That Did Not Require NRC Approval	14
Other Changes, Tests and Experiments	15
Chemistry Report	16
Description of All Instances Where Thermal Discharge Limits Were Exceeded	17
Fuel Handling	18
Procedure Revisions That Changed the Operating Mode Described In The FSAR	21
Description of Periodic Tests Which Were Not Completed Within The Time Limits Specified In Technical Specifications	22
Inservice Inspection	23
Reportable Occurrences Pertaining to Any Outage or Power Reductions	26
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #1 - Mechanical Maintenance	27
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #2 - Mechanical Maintenance	30

<u>Section</u>	<u>Page</u>
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #1 - Electrical Maintenance	33
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #2 - Electrical Maintenance	35
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #1 - Instrument Maintenance	37
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #2 - Instrument Maintenance	39
Health Physics Summary	41
Procedure Deviations reviewed by Station Nuclear Safety and Operating Committee after Time Limits Specified in T.S.	42

# OPERATING DATA REPORT

DOCKET NO. 50-280  
DATE 05 FEB 80  
COMPLETED BY O.J. COSTELLO  
TELEPHONE 804-357-3184

## OPERATING STATUS

- |   |                |       |  |
|---|----------------|-------|--|
| 1. UNIT NAME  | SURRY UNIT 1   |       |  |
| 2. REPORTING PERIOD   | 10180 TO 13180 |       |  |
| 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<br>(ITEMS 3 THROUGH 7) SINCE LAST<br>REPORT, GIVE REASONS | N/A            |       |  |
| 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY<br>(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     | 62328.0    |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL   | 561.4                       | 561.4     | 39313.0    |
| 13. REACTOR RESERVE SHUTDOWN HOURS   | 182.6                       | 182.6     | 3731.5     |
| 14. HOURS GENERATOR ON-LINE  | 556.1                       | 556.1     | 38461.1    |
| 15. UNIT RESERVE SHUTDOWN HOURS  | 187.9                       | 187.9     | 3740.5     |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)   | 1337473.0                   | 1337473.0 | 89052345.0 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH)                                      | 430185.0                    | 430185.0  | 29110683.0 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)  | 409019.0                    | 409019.0  | 27635918.0 |
| 19. UNIT SERVICE FACTOR  | 74.7 %                      | 74.7 %    | 61.7 %     |
| 20. UNIT AVAILABILITY FACTOR   | 100.0 %                     | 100.0 %   | 67.7 %     |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)   | 70.9 %                      | 70.9 %    | 57.2 %     |
| 22. UNIT CAPACITY FACTOR (USING DER NET)   | 66.9 %                      | 66.9 %    | 53.9 %     |
| 23. UNIT FORCED OUTAGE RATE  | 25.3 %                      | 25.3 %    | 24.8 %     |
| 24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS<br>(TYPE, DATE, AND DURATION OF EACH) | REFUELING JUNE 1980 6 WEEKS |           |            |
| 25. IF SHUT DOWN AT END OF REPORT PERIOD,<br>ESTIMATE DATE OF STARTUP            |                             |           |            |
| 26. UNITS IN TEST STATUS<br>(PRIOR TO COMMERCIAL OPERATION)                      | FORECAST                    | ACHIEVED  |            |

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

## OPERATING DATA REPORT

CORRECTED COPY

DOCKET NO. 50-280  
 DATE 05 FEB 80  
 COMPLETED BY O.J. COSTELLO  
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1		
2. REPORTING PERIOD	120179 TO 123179		
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	8760.0	61584.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	446.0	3051.7	38751.6
13. REACTOR RESERVE SHUTDOWN HOURS	48.0	3548.9	3548.9
14. HOURS GENERATOR ON-LINE	446.0	3046.1	37905.0
15. UNIT RESERVE SHUTDOWN HOURS	48.0	3552.6	3552.6
16. GROSS THERMAL ENERGY GENERATED (MWH)	1088483.0	7358919.0	87714872.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	352695.0	2372915.0	28680498.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	335501.0	2255180.0	27226899.0
19. UNIT SERVICE FACTOR	59.9 %	34.8 %	61.6 %
20. UNIT AVAILABILITY FACTOR	66.4 %	78.2 %	67.7 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	58.2 %	33.2 %	57.0 %
22. UNIT CAPACITY FACTOR (USING DER NET)	54.9 %	31.3 %	53.8 %
23. UNIT FORCED OUTAGE RATE	40.1 %	65.2 %	24.8 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	REFUELING JUNE 1, 1980, 6 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. 50-281  
DATE 05 FEB 80  
COMPLETED BY O.J. COSTELLO  
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2		
2. REPORTING PERIOD	10180 TO 13180		
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	744.0	59208.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	0.0	34499.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	0.0	33996.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	0.0	79194083.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	25868844.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	0.0	24536605.0
19. UNIT SERVICE FACTOR	0.0	0.0	57.4 %
20. UNIT AVAILABILITY FACTOR	0.0	0.0	57.4 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	53.5 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	50.4 %
23. UNIT FORCED OUTAGE RATE	0.0	0.0	21.0 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)			
25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP	5/5/80		
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)	FORECAST	ACHIEVED	

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY 1980

DOCKET NO. 50-280  
 UNIT NAME SURRY 1  
 DATE 2/1/80  
 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
80-1	1-1-80	F	183.6	D	4				Unit down for replacement of RCP motor. NRC requirement to successfully test RCP snubber prior to startup.
80-2	1-8-80	F	2.5	G	3				Reactor trip caused by 10-10 level in "A" Steam Generator feeding S/G's in manual.
80-3	1-8-80	F	1.8	G	3				Reactor trip caused by high level in "A" S/G while feeding S/G's in manual.

<sup>1</sup> F: Forced  
 S: Scheduled

<sup>2</sup> 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)

<sup>3</sup> Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

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

<sup>5</sup> Exhibit I - Same Source

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY 1980

DOCKET NO. 50-281  
 UNIT NAME SURRY UNIT 2  
 DATE 2/1/80  
 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
80-1	1-1-80	S	744	C	1				Continuation of shutdown for refueling and steam generator replacement which began on 2/4/79.

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: JANUARY, 1980

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
None during this reporting period.						
MONTHLY TOTAL						

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 2

MONTH: JANUARY, 1980

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
None during this reporting period.						
MONTHLY TOTAL						

DOCKET NO 50-280  
UNIT SURRY I  
DATE 2-1-80  
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JANUARY 80

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	17	747.5
2	0.0	18	747.3
3	0.0	19	748.3
4	0.0	20	748.6
5	0.0	21	748.9
6	0.0	22	751.3
7	0.0	23	750.8
8	39.8	24	746.9
9	616.2	25	747.9
10	726.5	26	749.3
11	689.8	27	749.8
12	747.5	28	750.6
13	747.0	29	749.3
14	745.7	30	747.4
15	747.9	31	750.1
16	747.9		

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 2-1-80  
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JANUARY 80

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

JANUARY, 1980

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

- January 1, - This reporting period begins with the unit at Cold Shutdown awaiting results of RCP snubber testing.
- January 7, - Commenced reactor coolant system (RCS) heatup from 200°F to 350°F/450 PSIG at 0835. RCS at 350°F/450 PSIG at 1915 and heat up continuing.
- January 8, - Commenced reactor startup at 1255. The reactor was critical at 1307. The generator was synchronized to the system at 1537 the reactor tripped from approximately 11% power due to "A" S/G Lo-Lo Level while feeding S/G's in manual. The reactor was critical at 1631. The generator was synchronized to the system at 1813. At 1840 the reactor tripped from approximately 18% power due to "A" S/G High Level. The reactor was critical at 1924. The generator was synchronized to the system at 2025. Power was increased to 50% and power increase stopped at 2200 until S/G chemistry improved.
- January 9, - A power increase from 50% to 75% began at 0215 and 75% power was achieved at 0415. At 0617 commenced power increase to 90%. Achieved 90% reactor power at 0755. At 0924 commenced power increase to 95%. Achieved 95% power at 0945. At 2139 increased power to 97%. At 2202 reduced reactor power from 97% to 95% due to condenser vacuum problem.
- January 10, - At 0015 increased reactor power to 97%. At 2000 increased reactor power to 100%.
- January 31, - This reporting period ends with the unit at 100% power.

UNIT 2

- January 1, - This reporting period begins with the unit at cold shutdown, all fuel removed from the reactor and steam generator replacement in progress.
- January - The primary side hydrostatic test 2A Steam Generator was completed. This completes all primary and secondary side hydrostatic tests of the replacement steam generators.
- January 31, - This reporting period ends with the unit at cold shutdown.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

JANUARY, 1980

The Nuclear Regulatory Commission has issued an Order for Surry Power Station Unit No. 1. The Order is issued to require implementation of all "Category A" lessons learned requirements prior to plant operation after January 31, 1980. Of significance the Order requires the following:

The Licensee by January 31, 1980, implement all "Category A" requirements (except the requirement of 2.1.7.a of NUREG-0578) referred to in Part 11 of this Order, except those for which necessary equipment is previously shown, by appropriate documentary justification to the Director, Office of NRR, to be unavailable, or, in the alternative, place and maintain its facility in a cold shutdown or refueling mode of operation. "Category A" requirements not implemented by January 31, 1980, owing to the unavailability of necessary equipment shall be implemented within 30 days of the date such equipment becomes available but no later than June 1, 1980.

- 11 -  
FACILITY CHANGES REQUIRING  
NRC APPROVAL

JANUARY, 1980

None during this reporting period.

FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL

JANUARY, 1980

<u>Design Changes</u>	<u>Unit</u>
-----------------------	-------------

- |  |   |
|--|---|
| 1. <u>DC-79-S47 - Welding of Containment Dome Plug</u> | 2 |
|--|---|

The top of the containment dome at Surry has a 30" diameter penetration which was used during construction. This penetration is sealed by a bolted flange with "O" rings on the liner side, a bolted plate on the outer end and is filled with sandbags. It is necessary to weld the liner flange of this dome plug to insure no leakage during the ILRT and to eliminate future testing of the "O" ring seals.

Summary of Safety Evaluation

The containment integrity will not be affected. There are no safety implications created by this design change.

- |   |   |
|---|---|
| 2. <u>DC-79-S53 - Emergency Motive Power to PORV's Modification</u> | 1 |
|---|---|

The pressurizer PORV's PCV-1455C and 1456 motive power is presently supplied by the nonsafety-grade containment instrument air system. In order to comply with NUREG-0578, the connection to an existing safety-grade system is required.

The pressurizer PORV's will receive their additional safety-grade motive power from the existing reactor vessel over pressure protection supply system as follows:

A spring-loaded check valve which was installed for Design Change 77-08 to prevent back flow of the safety-grade air to the nonsafety portion of the containment instrument air system will be removed. A new spring-loaded check will be installed in the instrument air line upstream of the safety-grade air line tee connection and PORV solenoid valves. This allows safety-grade air to be available for operation of the PORV's if containment instrument air is lost while still preventing a back flow of safety-grade air to the nonsafety portions of the system. The safety-related portions of the system are seismically supported.

FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL  
(CONTINUED)

Summary of Safety Evaluation

The safety function of the portion of the containment instrument air system being modified is to provide a back-up motive force to operate the pressurizer PORV's. This modification will make available an additional air supply in the event the normal air supply is disrupted; the basic operation of the system is unchanged. Since the work is equal to the original design requirements for containment instrument air, the modification will have no adverse effect on the operation of safety-related equipment.

3. DC-79-S54 - Direct Indication of Pressurizer Safety Valve Position 1

The proposed resolution is to monitor the flow in safety valves, SV1551A, B, and C, and SV2551A, B, and C, using an acoustic monitoring system.

Two acoustic sensors will also be secured to the surface of each power-operated relief valve, PCV1455C and 1456 and PCV2455C and 2456 to provide another means of indicating power-operated relief valve position besides the use of limit switches currently mounted on these valves.

Summary of Safety Evaluation

Installation of the above-mentioned acoustical monitoring system for pressurizer safety/power-operated relief valves position indication and the pressurizer power-operated relief valve position alarming function do not create an "unreviewed safety question", as defined in 10CFR50.59. This modification will increase the system reliability.

4. DC 79-S55 - Auxiliary Feedwater System-Flow Indication Modification 1

The flow indication instrumentation to the auxiliary feedwater system is presently powered from a semivital bus. NUREG-0578 requires that this system meet all safety-grade requirements, including emergency-powered diversity. This will be accomplished by:

- A. Detaching and tagging the existing wires terminating at the three-loop power supply rack MB-6.
- B. Removing the existing three loop power supply from the semivital rack and installing it into process rack 6 powered from vital bus 1-I.
- C. Installation of two three-loop power supplies into process rack 5 and 23 powered from vital bus 1-II and 1-III, respectively.



FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL  
(CONTINUED)

- D. Auxiliary feedwater flow instrument cables being rerouted and terminated in appropriate racks being electrically and physically isolated in accordance with NUS-357 and meeting all safety requirements including power diversity in accordance with ASBTP 10-1.

Summary of Safety Evaluation

The auxiliary feedwater flow indication modification does not effect station operation nor does it alter the operation of safety related equipment.

- 14 -  
TESTS AND EXPERIMENTS REQUIRING  
NRC APPROVAL

JANUARY, 1980

None during this reporting period.

TEST AND EXPERIMENTS THAT  
DID NOT REQUIRE NRC APPROVAL

JANUARY, 1980

ST-35

Unit  
1

Inside Recirculation Spray Pump Test was conducted on 01-09-80 on Unit No. 1. The intent of this test is to provide data that will be used to update the acceptance criteria for the periodic test of the inside Recirculation Spray Pump. (PT-17.2)

OTHER CHANGES, TESTS AND EXPERIMENTS

JANUARY, 1980

None during this reporting period.

SURRY POWER STATION

CHEMISTRY REPORT

JANUARY, 1980

T.S.6.6.A.11

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	3.84E-1	4.83E-3	2.26E-1	2.46E-4	4.21E-5	8.38E-5
Suspended Solids, ppm	1.3	0.0	0.2	0.1	0.1	0.1
Gross Tritium, $\mu\text{Ci/ml}$	1.13E-1	4.70E-2	6.34E-2	-	-	-
Iodine-131, $\mu\text{Ci/ml}$	1.74E-2	3.07E-3	7.17E-3	-	-	-
I-131/I-133	0.4717	0.2108	0.3250	-	-	-
Hydrogen, cc/kg	55.93	8.0	28.7	-	-	-
Lithium, ppm	0.99	0.14	0.75	-	-	-
Boron-10, ppm +	270.3	45.1	103.5	80.2	54.9	73.3
Oxygen-16, ppm	1.4	0.000	0.213	10.1	6.4	8.2
Chloride, ppm	0.13	0.05	0.05	0.05	0.05	0.05
pH @ 25°C	7.14	5.14	6.52	5.90	5.30	5.41

+ Boron-10 = Total Boron x 0.196

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

Phosphate	0	Boron	287
Sulfate	1946	Chromate	.08
50% NaOH	2450	Chlorine	0

Remarks: Unit 2 Shutdown - Latdown secured 01-13-80, no sampling possible after this date.

Unit 1 Startup 01-09-80.

DESCRIPTION OF ALL INSTANCES WHERE  
THERMAL DISCHARGE LIMITS WERE EXCEEDED

JANUARY, 1980

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

January 9, 1980	*	Exceeded 15°F $\Delta$ T across station
January 10, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 11, 1980	*	Exceeded 15°F $\Delta$ T across station
January 12, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 15, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 16, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 18, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 19, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 23, 1980	*	Exceeded 15°F $\Delta$ T across station
January 24, 1980	*	Exceeded 15°F $\Delta$ T across station
January 25, 1980	*	Exceeded 17.5°F $\Delta$ T across station
January 26, 1980	*	Exceeded 15°F $\Delta$ T across station

\*Indicates dates where station  $\Delta$ T was <15.0°F across the station for some-time during the day.

The  $\Delta$ T excursions were allowable under Technical Specifications 4.14.B.2. There were no reported instances of significant adverse environmental impact.

On January 8, 1980, the temperature change at the station discharge exceeded 3°F per hour, during Unit 1 startup with restricted flow through the condenser. This event was reported in accordance with Technical Specifications 4.14.

- 18 -  
FUEL HANDLING  
JANUARY, 1980

Twelve new assemblies for Unit 1, Cycle 6 were received January 31, 1980.

[illegible]

[illegible]



PROCEDURE REVISIONS THAT CHANGED THE  
OPERATING MODE DESCRIBED IN THE FSAR

JANUARY, 1980

None during this reporting period.

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

JANUARY, 1980

None during this reporting period.

INSERVICE INSPECTION

January 1980

The monthly visual inspection required by IE Bulletin 79-17 (Pipe cracks in Stagnant Borated Water Systems) was completed on Unit 1. No reportable indications have been noted.

The ultrasonic inspection required by IE Bulletin 79-17 Revision 1 commenced on Units 1 and 2. No reportable indications have been noted at this time.

Liquid penetrant testing was completed on the 4" PORV Pressurizer Safe end weld (Unit 2) per Westinghouse recommendation. The Unit 1 weld will be inspected during the refueling outage.

Visual inspections on the Unit 1 hangar modifications is in progress.

DEPT=NDT

4 FEB 80 \* 2:09 PM PAGE 5

UNIT1- 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSEEDDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNMTM
01/02/80	RC	PIPING	4-RC-34-1502	INSPECT PRESS NOZZLE	IT SATISFACTORY	1	001020951	5
DEPT TOTAL								5

DEPT=NDT

4 FEB 80 \* 2:19 PM PAGE 5

UNIT2\* 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSEVDP	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTH
01/04/80	RC	PIPING	4-RC-334-1502	INSPECT NOZZLE	PT SAFE END-SATISFACTORY	2	001020950	49
DEPT TOTAL								49

REPORTABLE OCCURRENCES PERTAINING TO  
ANY OUTAGE OR POWER REDUCTIONS

JANUARY, 1980

None during this reporting period.

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Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

UNIT 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSRVDVT	SYS	COMP	MARKNO	SUMMARY	WKFERR	U	MR	TOTDWNTH
01/01/80	MS	PIPING	TV-MS-101C	FLANGE LEAK	REPLACED BAD FLANGE WITH NEW ONE	1	910310700	257
01/01/80	MS	PIPING	TV-MS-101A	FLANGE LEAK	REPLACED BAD FLANGE WITH NEW ONE	1	910310702	257
01/01/80	FP	PIPING	12-FP	DC 79-S32A INSTALL CONSTRAINT CF2-4	INSTALL CONSTRAINT	1	912171051	337
01/02/80	CC	PIPING	4-CC-61/66	DC 79-S32A INSTALL CONSTRAINT	INSTALLED CONSTRAINT	1	911301321	629
01/02/80	CC	PIPING	8-CC-144	D/C 79-S32A INSTALL CONSTRAINT	INSTALL CONSTRAINT	1	912131441	125
01/02/80	CC	PIPING	18-CC-7	DC79-S32A INSTALL CONSTRAINT NSC614	INSTALLED CONSTRAINT	1	912191319	146
01/03/80	CC	PIPING	1-CC-301	D/C 79-S32A INSTALL CONSTRAINT	REMOVED U-BOLT	1	001030929	2
01/03/80	CC	PIPING	8-CC-32	D/C 79-S32A INSTALL CONSTRAINT	INSTALLED CONSTRAINT	1	911201346	873
01/03/80	CC	PIPING	18-CC-10/17	DC 79-S32A INSTALL CONSTRAINT AZ16BQ	INSTALL CONSTRAINT	1	912171033	312
01/04/80	CC	PIPING	10-CC-67	DC 79-S32A INSTALL CONSTRAINT	INSTALL CONSTRAINT	1	001021543	30
01/04/80	CC	PIPING	2-CC-65	D/C 79-S32A INSTALL CONSTRAINT	REMOVED CONSTRAINT	1	001030927	30
01/04/80	CC	PIPING	12-CC-33	D/C 79-S32A INSTALL CONSTRAINT	INSTALLED CONSTRAINT	1	001030931	30
01/04/80	RC	VALVE	FCV-1456	SEAT LEAKAGE	REWORKED VALVE	1	912041010	160
01/04/80	BS	OTHER		NO 1 CONTAINMENT HATCH	REPAIRED VLV	1	912132315	12
01/04/80	BS	OTHER		NO 1 CONTAINMENT HATCH	GREASE BEARING	1	912132316	12
01/04/80	PR	BASEPLAT	HGR-20	INSTALL PLATE WASHERS	REPLACE WHOLE HGR-20	1	912141401	45
01/04/80	PR	BASEPLAT	HGR-19	INSTALL PLATE WASHERS	INSTALL PLATE WASHERS	1	912141402	45
01/04/80	PR	BASEPLAT	HGR-15	HGR-18 INSTALL PLATE WASHERS	NEW PLATE	1	912141403	50
01/04/80	PR	BASEPLAT	HGR-2-3-4	INSTALL PLATE WASHERS	INSTALL WASHERS	1	912141405	53
01/04/80	PR	SPRG HGR	HGR-49-15	TORQUE BOLTS TO PROPER VALVES	TORQUE BOLTS	1	912141408	53
01/04/80	PR	BASEPLAT	HGR-15	HGR-15 REGROUT BASEPLATE	NEW GROUT ALREADY PUT IN	1	912141415	50
01/04/80	CC	PIPING	10-CC-67	DC 79-S32A INSTALL CONSTRAINT NSC 76	INSTALL CONSTRAINT	1	912200826	169
01/04/80	CC	PIPING	1-CC-100-151	PINE WHOLE WELD LEAK	RESOLDERED FLANGE	1	912291545	111
01/05/80	CH	MOV	MOV-CH-1275A	PACKING LEAK ST-76	CLEAN+TIGHTEN PACK	1	912171520	19
01/05/80	CH	MOV	MOV-CH-1267A	PACKING LEAK ST-76	CLEANED + TIGHTENED BONNET+PACK	1	912171522	19
01/05/80	CH	MOV	MOV-CH-1275B	PACKING LEAK ST-76	CLEANED + TIGHTEN PACK	1	912171528	19
01/05/80	CH	MOV	MOV-CH-1275C	PACKING LEAK ST-76	CLEAN + TIGHTEN PACK	1	912171532	19
01/05/80	CH	VALVE	FCV-CH-1145	PACKING LEAK ST-76	CLEAN + TIGHTEN PACK	1	912171542	19
01/05/80	RC	MOV	MOV-RC-1700	PACKING LEAK	REPACKED VALVE	1	912230141	187
01/05/80	CH	PIPING	1-CH-57-152	UNPLUG LINE	REBUILT VALVE	1	912201115	121
01/05/80	EE	DIESEL	1-EE-DG-3	REPAIR LEAK	INSTALLED NEW ROSES	1	912302206	30
01/06/80	EE	DIESEL	NO 1	ADD LUBE OIL TO DIESEL PMP	ADDED TWO DRUMS OF OIL	1	001061107	6
01/06/80	EE	MISC	1-EE-DG-3	NO 3 EDG NOISY	REPAIRED	1	912302205	154
01/07/80	VS	PUMP	1-VS-P-1	REPAC PUMP	INSTALL MECHANICAL SEAL	1	001040800	72
01/07/80	CC	VALVE	1-CC-752	1-CC-752 WILL NOT SEAT PROPERLY	OPENED VALVE FOUND VALVES STUCK OPEN	1	001050700	5
01/07/80	CC	VALVE	1-CC-58	CHECK VALVE	INSPECTED VALVE	1	001061240	23
01/07/80	FW	MOV	MOV-FW-1517	MOTOR HOUSING SHATTERED	REPLACED WITH LIMTORQUE FROM MOV 251	1	001061910	11
01/07/80	FE	DIESEL	NO 3	ADD OIL TO DIESEL ROOM	ADDED OIL IN MAIN SUMP	1	001070811	7
01/07/80	RC	PUMP	1-RC-P-1A	PLACE WEIGHTS ON COUPLIN HI VIB	INSTALLED WEIGHTS TO COUPLING AS DIR	1	001071230	2
01/07/80	PR	BASEPLAT	HGR-3	REGROUT BASEPLATE	NO GROUT NECESSARY	1	912141407	128
01/07/80	PR	BASEPLAT	HGR-24	PULL PLATE FLUSH	TIGHTEN BOLTS TO PROPER	1	912141412	121
01/07/80	PR	BASEPLAT	HGR-1	REPLACE MISSING BOLT	REPLACE MISSING BOLT	1	912141413	121
01/07/80	PR	BASEPLAT	HGR-001	INSTALL PLATE WASHERS	INSTALLED PLATE WASHERS	1	912141419	125
01/07/80	CC	PIPING	10-CC-67	DC 79-S32A INSTALL CONSTRAINT NSC 76	INSTALLED CONSTRAINT	1	912200827	238
01/07/80	CC	PIPING	8-CC-287	DC79-S32A INSTALL CONSTRAINT	INSTALLED CONSTRAINT	1	912210930	238
01/07/80	PK	SNUBBER	WFD-HSS-14	RESERVOIR OUT OF OIL	REPLACED PIPE NIPPLE AND TWO SEAL WA	1	912291530	139
01/08/80	RC	VALVE	FCV-1455C	SEAT LEAKAGE	REWORKED VALVE	1	912041011	288



DEPT=MECH

4 FEB 88 \* 2:09 PM PAGE 2

UNIT 1 2/04/80

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

RETSEVIRP	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	MR	TOTDWTM
01/08/80	PR	SPRG HGR	HGR-001	ROD BENT STRAIGHTEN	BENT ON PURPOSE TO FIT INTO CEILING	1	912141400	142
01/08/80	PR	BASEPLAT	HGR-20-35	INSTALL PLATE WASHERS	INSTALLED PLATE WASHERS	1	912141406	144
01/08/80	PR	BASEPLAT	HGR-2	BASEPLATE PULLED FROM WALL	BASEPLATE POLLED AGAINST WALL	1	912141409	144
01/08/80	PR	BASEPLAT	HGR-5	REGROUT BASEPLATE	ALREADY REGROUTED	1	912141411	144
01/08/80	PR	BASEPLAT	HGR-3	PULL PLATE FLUSH	TORQUED TO MAX ALLOWABLE	1	912141416	144
01/08/80	PR	SPRG HGR	HGR-1	REPLACE MISSING BOLT	MISTAKEN HOLE IN BASEPLATE	1	912141417	143
01/08/80	PR	BASEPLAT	HGR-8	PULL PLATE FLUSH	PULLED PLATE FLUSH AGAINST WALL	1	912141420	143
01/08/80	RC	PMP MTR	1-RC-P-1A	REMOVE AND REPLACE MOTOR	COMPLETED	1	912200500	936
01/09/80	CC	PIPING	2/2-CC-184	INSTALL PAD	INSTALL CONSTRAINT	1	001031403	95
01/09/80	CC	PIPING	18-CC-14	DC 79-S32A INSTALL CONSTRAINT	INSTALLED CONSTRAINT	1	010211507	141
01/09/80	CC	HX	1-CC-E-1A	CHECK FOR TUBE LEAKS TARET	CLEANED WATER BOX	1	908130700	4296
01/09/80	CC	HX	1-CC-E-1A	DEVELOPED LEAK WHILE OUT OF SERVICE	PLUGGED TUBE	1	911110800	1344
01/09/80	PR	BASEPLAT	HGR-12	REGROUT BASEPLATE	REGROUTED	1	912141404	168
01/09/80	PR	SPRG HGR	HGR-1	REPLACE MISSING STUD	REPLACED MISSING STUD	1	912141414	168
01/09/80	CC	PIPING	18-CC-8/10	INSTALL CONSTRAINT DC79-S32A	INSTALLED CONSTRAINT	1	912161600	557
01/09/80	CC	PIPING	18-CC-8/10	DC 79-S32A INSTALL RESTRAINT A216B	INSTALL CONSTRAINT	1	912181551	315
01/09/80	PR	SNUBBER	1-RC-HSS-162	REMOVE 12 IN SNUBBER	TORQUED CAPSCREWS	1	912231330	95
01/09/80	PR	SNUBBER	1-RC-HSS-163	REMOVE 12 IN SNUBBER	TORQUED CAPSCREWS	1	912231331	95
01/09/80	PR	SNUBBER	1-RC-HSS-166	REMOVE 12 IN SNUBBER	FUNCTIONAL TESTED HSS-REPLACED IT	1	912231332	407
01/09/80	PR	SNUBBER	1-RC-HSS-167	REMOVE 12 IN SNUBBER	TORQUED CAPSCREWS	1	912231333	95
01/09/80	PR	SNUBBER	1-RC-HSS-170	REMOVE 12 IN SNUBBER	TORQUED CAPSCREWS	1	912231334	95
01/09/80	PR	SNUBBER	1-RC-HSS-171	REMOVE 12 IN SNUBBER	TORQUED CAPSCREWS	1	912231335	95
01/09/80	CC	PIPING	8-CC-32	DC79-S32A INSTALL CONSTRAINT	INSTALLED CONSTRAINT	1	912281406	216
01/09/80	CC	PIPING	18-CC-236	DC79-S32A REMOVE U-BOLTS	INSTALLED CONSTRAINT	1	912281407	215
01/11/80	CC	PIPING	12-CC-27	INSTALL CONSTRAINT	COMPLETED	1	001031321	70
01/11/80	BR	PIPING		REMOVE BLIND FLANGE	REMOVED BLANK FLANGE	1	001111909	3
01/11/80	CV	PUMP	1-CV-P-1B	FLOW RATE LESS THAN DESIRED	REPLACED PUMP	1	910290700	15

DEPT TOTAL

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Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

UNIT2- 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RPTSERV	SYN	COMP	MARKNO	SUMMARY	WHERE	U	MR	TOTDWNTH
01/03/80	RS	PUMP	2-RS-P-10	PUMP SMOK? WHEN RUNNING	ADJUSTED DEFLECTOR DISK	2	001021400	25
01/03/80	CS	VALVE	2-CS-FL-1A	FILTER BONNET LEAKING	CHANGED GASKET	2	912051401	512
01/03/80	CS	VALVE	2-CS-FL-1B	BONNET OF FILTER LEAKING	CHANGED GASKET	2	912051402	512
01/03/80	RS	PIPING	4-RS-114-153	BOLTING CORRODED	NO PROBLEM	2	912051416	513
01/03/80	RS	PIPING	F1-RS-257A	BOIT FLANGE	NO PROBLEM	2	912101120	513
01/03/80	RS	PUMP	2-RS-P-2A	DISCHARGE FLANGE BOLTING	NO PROBLEM	2	912101122	514
01/05/80	RC	VALVE	2-RC-17	REPACK VALVE	REPACKED VALVE	2	001041747	6
01/07/80	FE	DIESEL	2	ADD OIL TO DIESEL SUMP	ADDED OIL TO MAIN SUMP	2	001070810	7
01/09/80	SI	VALVE	RV-SI-201	DIAPHRAM IS RUPTURED	REPAIRED	2	904052220	936
01/09/80	RS	PUMP	2-RS-P-2B	WRONG SIZE BOLT'S	REPLACED STUDS	2	912051417	154
01/09/80	RS	PIPING	10-RS-102-153	BOLT MISSING ON SPRING HANGER	REPLACED MISSING BOLT	2	912101121	154
01/12/80	IA	VALVE	2-IA-516	CAP BLOWN OFF PIPING	REPAIRED AIR LINE	2	001111042	28
01/14/80	RC	SG	2-RC-E-1C	OPEN PRIMARY MANWAYS	REMOVED+REINSTALLED MANWAYS	2	912101124	158
01/15/80	DG	VALVE	2-DG-94	VALVE LEAKS THRU B TO B LEAK	REPAIRED	2	001021300	9
01/18/80	DA	VALVE	TV-DA-200A	VALVE LEAKING PT 16.4	REPAIRED VALVE	2	001021303	72
01/18/80	SI	INSR	2948	SIGHT GLASS BROKEN	REPLACED	2	910081422	1637
01/21/80	SI	PIPING	FE-2943	ORIFACE LEAKS	REPAIRED	2	908221513	61
01/21/80	SI	VALVE	2-SI-6	REPACK	ADJUSTED PACKING	2	912050741	61
01/21/80	SI	VALVE	2-SI-6B	REPACK	REPACKED	2	912050744	61
01/22/80	CC	PUMP	1-CC-P-1C	CHECK AXIAL PLAY ON PUMP	ADJUSTED THRUST BEARING	2	001210736	8
01/22/80	SI	VALVE	2-SI-4	REPACK	REPACKED VLV	2	912050740	90
01/22/80	SI	VALVE	2-TV-2884A	REPACK	REPACKED VLV	2	912050746	114
01/22/80	SI	VALVE	2-TV-2884C	REPACK	REPACKED VLV	2	912050747	114
01/23/80	DG	VALVE	2-DG-1	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM+ORING	2	902161001	3
01/23/80	CH	VALVE	2-CH-241	VALVE LEAKS	RESTORED VLV TO GOOD CONDITION	2	912102235	120
01/24/80	SI	PUMP	2-SI-P-1B	PULL PUMP AND CLEAN	CLEANED SUCTION CAN	2	001151010	118
01/24/80	FW	MOV	MOV-FW-251F	REMOVE STEM NUT FOR MEASUREMENT	COMPLETED	2	001181431	67
01/24/80	CH	VALVE	FCV-2186	LEAK AT VALVE BODY TO BONNET	COMPLETED	2	904211747	91
01/24/80	SI	VALVE	2-SI-5	REPACK	NO PACKING	2	912050742	132
01/24/80	SI	VALVE	2-SI-77	REPACK	REPACKED VLV	2	912050743	132
01/24/80	SI	VALVE	2-SI-315	REPACK	REPACKED VLV	2	912050745	132
01/24/80	SI	PIPING	F1-2934	FLANGE LEAK	RENEWED FLANGE GASKET	2	912050748	132
01/24/80	CH	MOV	MOV-CH-2287C	PACKING LEAKING	REPACKED	2	912051403	145
01/24/80	SI	PIPING	FE-2940	FLANGE LEAK	REPAIRED	2	912051422	40
01/25/80	CH	PUMP	2-CH-P-1B	INBOARD SEAL LEAKS	COMPLETE PAPER WORK LOST	2	020172890	0
01/25/80	CH	VALVE	2-CH-374	REPLACE DIAPHRAGM	REPLACED BONNET ASSY	2	902161317	67
01/25/80	LM	VALVE	2-RN-3	LEAKS THRU ON PT 16.4	OVERHAULED VALVE	2	912170820	360
01/28/80	CC	VALVE	2-CC-93	REPAIR PIPE CAP THREADS ON VALVE	REPAIRED PIPE THREADS	2	001171305	101
01/28/80	FW	PUMP	2-FW-P-3A	OUTBOARD PUMP PACKING BURNED UP	REPACKED	2	911050725	2016
01/28/80	CH	MOV	MOV-CH-2278B	BONNET LEAKING ON VALVE	RENEWED BONNET GASKET	2	912051404	74
01/29/80	CC	VALVE		CHECK VALVE LOOSE	CLEANED CK VLV	2	001152355	120
01/29/80	CH	VALVE	2-CH-204	REPLACE DIAPHRAGM	REPLACED DIAP+GASKET+ORING	2	902161310	39
01/29/80	SI	VALVE	2-SI-24	PACKING LEAKING	COMPLETED	2	912051408	312
01/30/80	DA	PIPING	2-DA-53	INSTALL TEST FLANGE	FABRICATED FLANGE/REMOVED AFTER TEST	2	001021304	514
01/30/80	CH	VALVE	2-CH-408	THREADS AT END OF PIPE GALLED	CLEANED+DRESSED THREADS	2	001241445	12
01/30/80	BS	OTHER	117	PLUG GALLED IN SPARE PENETRATION	REMOVED PLUG	2	001260731	12
01/31/80	BS	OTHER	57	2 PLUGS GALLED IN SPARE PENETRATION	REMOVED PLUGS	2	001260730	23

DEPT=KPCN

4 FEB 80 \* 2:19 PM PAGE 2

UNIT 2 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSFVLP	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTH
02/01/80	GW	PIPING		DRILL HOLE IN PIPE	COMPLETED	2	001211525	196
02/01/80	GW	PIPING		DRILE HOLE IN PIPE	COMPLETED	2	001211526	196
DEPT TOTL								
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Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

DEPT=FLPC

4 FEB 80 \* 2:09 PM PAGE 3

UNIT 1- 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSEALVT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDNTM
01/03/80	CH	INSR	PCV-1113A	GREEN LIGHT WILL NOT CLEAR IN OPEN	READJUSTED LIMIT SW	1	911141537	1144
01/03/80	SI	INSTR	PC-456DXD	RELAY OPERATES SLUGGISHLY	RELAY REPLACED AND OPERATE SAT	1	912311101	24
01/07/80	CH	HT	PWL 8+9	CHECK HT ON LINE 1-CH-357	CIRCUITS CHECKED OK	1	001021130	7
01/07/80	RC	PMP MTR	1-RC-P-1A	DISCONNECT MOTOR	TESTED SAT	1	912191430	456
								*****
DEPT TOT D.								1631

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

DEIT=ELFC

4 FEB 80 \* 2:19 PM PAGE 3

UNIT 2 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTSP/VDI	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWTM
01/08/80	FE	MISC	2-EE-DG-2	RADIATOR FAN LOUVERS	TESTED SAT	2	912302250	144
01/14/80	FE	BUS	2J	GROUND INDICATED ON 2J SWBD	TESTED SAT	2	907150130	4016
01/14/80	RPL	BUS	2H	GROUND INDICATED ON 2H SWBD	CLEARED	2	907150135	4016
01/14/80	EPDC	BATT	2A2	ONE LIGHT DIM ON GROUND	CLEARED	2	912131201	116
01/16/80	CC	VALVE	TV-CC-209	DISCONNECT SOV FOR MECH	RECONNECTED+CYCLED SAT	2	909121650	3768
01/23/80	SW	MOV	MOV-SW-205C	MOV FMS	PERFORMED AS PER EMP-P-MOV-45	2	901251533	8256
01/23/80	FE	BATT	2B2	BATTERY CHARGER SHORTED	CHARGER CHECKED SAT	2	911190700	1560
01/24/80	VS	FAN MTR	2-VS-F-1A	FAN MOTOR FMS	FOUND LOUVERS BLOCKED OPEN	2	901261004	8016
01/24/80	VS	FAN MTR	2-VS-F-1B	FAN MOTOR FMS	FOUND LOUVERS BLOCKED OPEN	2	901261005	8016
01/24/80	VS	FAN MTR	2-VS-F-1C	FAN MOTOR FMS	WORK TO BE COMPLETED ON S2911020055	2	901261006	8016
01/24/80	RC	VALVE	HCV-RC-2557B	CONNECT SOV	COMPLETED AS PER EMP-C-SOV-38	2	911201330	1032
01/24/80	RC	VALVE	HCV-RC-2556D	CONNECT SOV	RENEWED AS PER EMP-SOV-38	2	911201332	1032
01/25/80	RP	OTHR	PWL 2-3	REMOVE TEMPORARY CABLE	COMPLETED CONDUIT INSTALLED	2	908091131	361
01/28/80	FW	PUMP	2-FW-P-3B	REPLACE START SWITCH	TESTED SAT	2	001160213	240
DEIT TOTAL								***** *****



Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

DETT=1687

4 FEB 80 \* 2:09 PM PAGE 4

UNIT1- 2/04/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

REFEPRVD	SYZ	COMP	MARKNO	SUMMARY	WKPRF	U	MR	TOTDWN7M
01/02/80	RC	VALVE	FCV-RC-1-490	OVERHAUL C FFED REG VALVE	REBUILT POSITIONER	1	912191500	127
01/02/80	RC	INSTR	FCV-1-455C/456	IMPLEMENT DC-79-553	COMPLETED AS PER PROCEDURE 79-553	1	912221000	269
01/02/80	RR	VALVE	FCV-1605	VALVE DOES NOT GO FULLY SHUT	ADJUSTED F/P	1	912301025	52
01/02/80	RR	VALVE	HCV-1758	CHECK BAILEY POSITIONER	ADJUSTED F/P	1	912310032	52
01/03/80	BR	PUMP	1-BR-P-6.1	PUMP DOES NOT TRIP	REMOVED JUMPER+TESTED SAT	1	001012320	21
01/07/80	RM	MONITOR	RM-IR-108	RESET ALARM	RESET ALARM AND ALARM POINTS	1	001060300	12
01/09/80	NI	MISC	NR-1-47	INDICATING WITH UNIT SHUTDOWN	REPLACED BALANCE MOTOR GEAR/BEARING	1	001040738	96
01/09/80	FP	INSTR		CAL GAGE	CHECKED OUT SAT	1	001041305	96
01/09/80	RC	INSTR	PI-1-459	PI-1-459 INDICATING LOW	CALIBRATED TRANSMITTER	1	001000640	24
01/09/80	CH	INSTR	FCV-CH-1122	CONTROLLER WILL NOT REGULATE	CONTROLS NORMAL	1	001081745	2
01/11/80	RS	INSTR	LI-RS-1518	SUMP LEVEL INDICATION IS ERRATIC	SPURIOUS ERRATIC INDICATION	1	001081755	6
01/11/80	MS	VALVE	HCV-MS-104	CHECK CONTROLLER	RESET FAP OUTPUT	1	001090905	48
01/11/80	CV	INSTR	PI-CV-101A	CAL XMITTER	TIGHTENED CONNECTION	1	001090946	24
01/11/80	CV	INSTR	PI-CV-101B	CAL XMITTER	OPERATING NORMALLY	1	001090947	24
01/11/80	GM	MONITOR	RM-GM-102	CORRECT SETPOINT	ADJUSTED ALARM SETPOINT	1	001110451	9

DETT TOT H.

862

Maintenance of Safety Related Systems During  
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

DEFT=INST

4 FEB 80 \* 2:19 PM PAGE 4

UNIT2- 2/01/80  
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVD	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	MR	TOTDWNTH
01/09/80	FE	INSTR		RECORDER NOT WORKING READING LOW	ADJUSTED ZERO	2	001041241	24
01/17/80	RM	MONITOR	RM-SV-211	CA SET POINT	HI ALARM SETTING CHECKED SAT	2	001170230	4
01/25/80	RM	MONITOR	RM-RMS-261	NO RESPONSE TO CHECK SOURCE	CLEANED METER	2	001240235	24
01/29/80	CH	INSTR	LI-115	READING 6 PER-TANK IS DRAINED	ADJUSTED INDICATOR	2	001260732	28
01/29/80	CH	INSTR	PI-117	READING 5 PER-TANK DEPRESSURIZED	ADJUSTED INDICATOR	2	001260733	28
02/01/80	RM	INSTR	RR-200	BROKE	CONTACT ARM DISCONNECTED+RECONNECTED	2	001310646	24
								****
DEFT TOTAL								132

HEALTH PHYSICS

JANUARY, 1980

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

JANUARY, 1980

None during this reporting period.