

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 80-05

MAY, 1980

APPROVED:

R. Saunders

MANAGER

8006170

517

CONTENTS

<u>Section</u>	<u>Page</u>
Operating Data Report - Unit #1	1
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	11
Facility Changes Requiring NRC Approval	12
Facility Changes That Did Not Require NRC Approval	12
Tests and Experiments Requiring NRC Approval	15
Tests and Experiments That Did Not Require NRC Approval	15
Other Changes, Tests and Experiments	16
Chemistry Report	17
Description of All Instances Where Thermal Discharge Limits Were Exceeded	18
Fish Kill Investigation	19
Fuel Handling	21
Procedure Revisions That Changed the Operating Mode Described In The FSAR	23
Description of Periodic Tests Which Were Not Completed Within The Time Limits Specified In Technical Specifications	24
Inservice Inspection	25
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

<u>Section</u>	<u>Page</u>
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #2 - Mechanical Maintenance	31
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #1 - Electrical Maintenance	35
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #2 - Electrical Maintenance	37
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #1 - Instrument Maintenance	41
Maintenance of Safety Related Systems During Outage or Reduced Power Periods - Unit #2 - Instrument Maintenance	43
Health Physics Summary	45
Procedure Deviations reviewed by Station Nuclear Safety and Operating Committee after Time Limits Specified in T.S.	46

OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 08 JUN 80
COMPLETED BY O.J. COSTELLO
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	50130 TO 53180
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	144.0	3647.0	65231.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	487.8	1504.0	40255.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	182.6	3731.5
14. HOURS GENERATOR ON-LINE	481.2	1491.6	39396.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	183.6	3736.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1130680.0	3569020.0	91283892.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	337905.0	1123560.0	29804058.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	319190.0	1066000.0	28292899.0
19. UNIT SERVICE FACTOR	64.7 %	40.9 %	60.4 %
20. UNIT AVAILABILITY FACTOR	64.7 %	45.9 %	66.1 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	55.4 %	37.7 %	56.0 %
22. UNIT CAPACITY FACTOR (USING DER NET)	52.2 %	35.6 %	52.8 %
23. UNIT FORCED OUTAGE RATE	35.3 %	15.0 %	66.3 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	9/15/80 - S/G REPLACEMENT OUTAGE	REFUELING = 1 YEAR	

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

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

OPERATING DATA REPORT

DOCKET NO. 50-281
DATE 05 JUN 80
COMPLETED BY C.J. COSTELLO
TELEPHONE 804-357-3184

OPERATING STATUS

- 1. UNIT NAME SURRY UNIT 2
- 2. REPORTING PERIOD 50180 TO 53180
- 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

NOTES

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	3647.0	82111.0
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	75194083.0
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	54.7 %
20. UNIT AVAILABILITY FACTOR	0.0	0.0	54.7 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	51.0 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	48.1 %
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 01/10/80

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

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-280
 UNIT NAME Surry Unit 1
 DATE _____
 COMPLETED BY _____
 TELEPHONE _____

REPORT MONTH MAY, 1980

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
80-7	5-1-80	F	260.9	D	1	80-018			Continuation of shutdown for piping restraint modification and turbine rotor inspection which began 2-19-80.
80-8	5-11-80	F	2.1	G	3				Reactor trip caused by feed flow/steam flow mismatch with Lo S/G level signal while feeding S/G's in manual during escalation of power
80-9	5-12-80	F	0	G	4				Inadvertant boration of primary system when "B" mixed bed demineralizer was placed in service without verifying boron concentration of effluent was equalized with primary system boron concentration. Inadvertant boration caused $\Delta\phi$ to remain outside target band for greater than one hour in a 24 hour period necessitating power reduction to $\leq 50\%$ power until ϕ within target band for 24 hours.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-281
 UNIT NAME Surry Unit 2
 DATE _____
 COMPLETED BY _____
 TELEPHONE (804) 357-3184

REPORT MONTH MAY, 1980

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
80-5	5-1-80	S	744	D	1				Continuation of shutdown for refueling & steam generator replacement, which began on 2-4-79. Work still underway on piping restraint modifications required prior to unit recovery.

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

141

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO.1

MONTH: MAY, 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 6-1-80
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MAY 80

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	17	696.8
2	0.0	18	699.8
3	0.0	19	697.0
4	0.0	20	701.0
5	0.0	21	701.8
6	0.0	22	688.0
7	0.0	23	687.5
8	0.0	24	690.1
9	0.0	25	689.5
10	0.0	26	685.5
11	4.7	27	688.9
12	462.3	28	684.2
13	438.8	29	680.3
14	674.6	30	675.8
15	687.5	31	666.1
16	699.5		

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 6-1-80
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MAY 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

MAY, 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

- May 1 - This reporting period begins with the unit at cold shutdown for piping restraint modifications and turbine rotor inspection.
- May 10 - Exceed 350^oF/450 psig on primary system at 2215.
- May 11 - The reactor was critical at 1547 and the generator was on-the-line at 2055. A reactor trip/turbine trip caused by feed flow/steam flow mismatch in coincidence with a low level in "C" S/G occurred at 2106 while feeding S/G's. The reactor in manual was critical 2132 and the generator on the line at 2300. Commenced power escalation.
- May 12 - At 0700 reactor power was leveled off and held at 96% due to sodium carry over in the main steam system. At 1220 the control room operator placed the "B" mixed bed demineralizer in service after flushing without having determined that the boron concentration (C_B) of the effluent was equalized with the primary system C_B . At this time the primary C_B was 315 ppm and the demineralizer effluent C_B was 1076 ppm. This inadvertant boron addition initiated a rapid power reduction from 95% to 80%. While stabilizing plant parameters at 80% power the axial flux difference (AFD) deviated from the target band for greater than one hour. A power reduction to 50% was commenced at 1250 and at 1325 the AFD returned to the target band. Power reached 50% at 1440.
- May 13 - Commenced power increase at 1325. Power reached 100% at 1845.
- May 14 - At 1033, while attempting to return the "B" H. P. drain pump to service after maintenance, the pump discharge flange developed a severe leak. At 1148 a power reduction was commenced to allow securing the "A" H. P. drain pump to facilitate isolation of the leaking pump discharge flange. The power reduction was stopped at 1215 at 92%. At 1632, after leaking flange was isolated and maintenance personnel had tightened the flange bolts, the "A" H. P. drain pump was restarted and a power increase was begun. Power reached 100% at 1845.
- May 15 - An inadvertant boration occurred at 1220 due to leakage of boric acid past MOV-1350. This resulted in a power decrease to 88%. A dilution and power increase was commenced and power reached 100% at 2030.
- May 20 - At 1425 the chemist report the "A" boric acid storage tank (BAST) C_B was 13.1%. This is greater than T.S. limit of 13.0% and a power reduction to hot shutdown began at 1438. AT 1514 the C_B of the "A" BAST was determined to be 12.7% after the addition of 216 gallons of primary grade water and unit was returned to 100% power.

MAY, 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

- May 26 - Unit power was reduced to 96% at 1855 due to decreasing condenser vacuum. Unit power was returned to 100% at 2115 after condenser vacuum returned to normal.
- May 31 - Power was reduced to 95% at 1835 to reduce sodium carryover in the main steam system. At 2240 power was increased to 97%. This reporting period ends with the unit at reduced power due to sodium carryover in the main steam system.

UNIT 2

- May 1 - This reporting period begins with the unit at refueling shutdown with the core loaded and the reactor vessel head removed.
- May 3 - Reactor vessel head in place.
- May 9 - Reactor vessel head bolted down.
- May 26 - Type "A" test on containment completed satisfactorily.
- May 31 - This reporting period ends with the unit at cold shutdown with maintenance, piping restraint modifications and design changes continuing.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

MAY, 1980

The Nuclear Regulatory Commission issued, on May 16, 1980, amendment No. 58 to the Operating License for Surry Power Station Unit No. 2, which was designated as Technical Specification Change No. 65. The change is a result of our request to revise the Unit 2 specifications to reflect a tube plugging limit to 3% for the new steam generators. Of significance are the following changes:

1. The limit for the heat flux hot channel factor, $F_Q(z)$, has been raised to 2.19.
2. A curve of normalized operating envelope $K(z)$, has been added for Unit 2.
3. The limits for nuclear enthalpy rise hot channel factors, $F_{\Delta H}^N$ | $\begin{matrix} \text{LOCA} \\ \text{Rod} \end{matrix}$ and $F_{\Delta H}^N$ | $\begin{matrix} \text{LOCA} \\ \text{Assm} \end{matrix}$, have been raised to 1.55 and 1.476, respectively.
4. Deletion of power distribution monitoring requirements.

- 12 -
FACILITY CHANGES REQUIRING
NRC APPROVAL

MAY, 1980

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

The following facility changes were implemented during the month of May:

- | <u>Design Changes</u> | <u>Unit</u> |
|---|-------------|
| 1. <u>DC/79-S37 ASCO Solenoid Valve Replacement</u> | 1 |
| <p>This modification precipitated by IE Bulletin 79-01 provided for the replacement of solenoid valves presently installed with others which are environmentally qualified.</p> <p><u>Summary of Safety Evaluation</u></p> <p>Since this design change merely replaces the present valves with identical ones having an environmental qualification, no new safety considerations have been surfaced beyond those previously addressed.</p> | |
| 2. <u>D/C-79-58 Reactor Coolant System Subcooling Monitor System</u> | 2 |
| <p>In an effort to meet requirements of TMI 2 NUREG 0578 Section 2.1.3 b and subsequent NRC clarification, two subcooling meters have been installed on the main control board to provide indication of reactor coolant margin to saturation conditions.</p> <p><u>Summary of Safety Evaluation</u></p> <p>This system will provide the operator with an indication of the reactor coolant system margin to saturation conditions. It does not effect the operation of any safety related equipment, therefore there are no safety problems created with this modification.</p> | |
| 3. <u>D/C-79-59 High Range Radiation Monitor</u> | 2 |
| <p>To conform with section 2.1.8 b of NUREG 0578 resulting from TMI, additional high range effluent monitors have been located in the service building, auxiliary building, and main steam valve house.</p> <p><u>Summary of Safety Evaluation</u></p> <p>These instruments will provide assurance that the necessary monitoring capabilities for anticipated release paths are available during or after an accident. In such case the modification would have no effect on the operation of safety related equipment.</p> | |

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

(Continued)

MAY, 1980

4. D/C-79-85 Replacement of Diesel Fire Pump Starting Contactors 1,2

This modification initiated in response to IE Circular 79-13 replaced the components which were determined to be defective with the new 217588 magnetic switch.

Summary of Safety Evaluation

This design change has no adverse effect upon the safety considerations of the fire protection system since the modification provides for the replacement of a switch with another which will improve the reliability of the system.

5. D/C-80-06 Replacing Westinghouse BFD Relays in Safety Related Systems 1

In response to I.E. Bulletin 79-25 BFD relays used in engineered safeguards systems logic were checked to assure proper performance. This design change replaced those relays which were determined to be substandard.

Summary of Safety Evaluation

While this design change will improve system reliability, no changes to Technical Specifications (Section 3.7 Instrumentation Systems) have been made nor will the protection logic specified in Section 7.2 of the FSAR be altered.

6. D/C-80-19 Interim Modifications Providing Relief to Service Water Temperature Restrictions 1

A number of hardware modifications were installed to upgrade the performance of the containment spray and recirculation spray systems. The overall effect of this design change is to insure adequate net positive suction head is available in case of a Design Basis Accident.

Summary of Safety Evaluation

This design change will not affect any station operating procedure or the operation of safety related equipment. It should be noted that a change is required to a periodic test in order to account for the difference in pump discharge flow.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

(Continued)

MAY, 1980

7. D/C-80-35 Diverse Insolation Signals To Containment Trip Valves I

In response to section 2.1.4 of NUREG-0578 which addresses the possible consequences of depending solely on containment high pressure signals to isolate non-essential penetrations, diverse signals were supplied to non-essential containment trip valves.

Summary of Safety Evaluation

This modification involved the deletion of outputs from the CLS system, replacing them with Safety Injection Signal outputs. This is the only change in the operation of the Engineered Safeguards System. Station Operating and Testing Procedures are to be updated to reflect this change. This design change improves the containment isolation system and has no effect on the operation of the other safety systems or safety related equipment.

8. D/C-80-38 Addition of Isolation Valve To 3"-BR-163-154 1,2

The Boron Recovery Tanks vent through line 3"-BR-163-154 to the Gaseous Waste Disposal System. This portion of the system is Seismic Class I and the Boron Recovery Tank vents are non-seismic. The installation of this manual isolation valve is required to provide a seismic boundary to isolate the non-seismic piping should the need arise.

Summary of Safety Evaluation

This modification will have no adverse effect on safety related equipment and will enhance the reliability of the system.

9. D/C-80-29 Condenser Air Ejector Containment Isolation
Valve Relocation I

This modification relocates isolation valve TV-SV-102 closer to the containment in line 6"-AJA-4-121, installing a new valve at the old location. This was done to reduce the extent of seismic analysis required to insure the adequacy of containment isolation design for this line.

Summary of Safety Evaluation

This design change involves only the relocation of an existing valve maintaining the system process thus constituting no safety hazard.

- 15 -
TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

MAY, 1980

None during this reporting period.

TEST AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

None during this this reporting period.

MAY, 1980

None during this reporting period.

CHEMISTRY REPORT

MAY, 1980

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	6.66E-1	1.93E-2	2.71E-1	2.81E-2	5.44E-4	4.57E-2
Suspended Solids, ppm	7.3	0.0	1.0	2.4	0.0	0.2
Gross Tritium, $\mu\text{Ci/ml}$	6.60E-2	1.34E-2	3.55E-2	-	-	-
Iodine-131, $\mu\text{Ci/ml}$	2.53E-2	8.93E-4	6.98E-3	-	-	-
I-131/I-133	0.6673	0.1672	0.2707	-	-	-
Hydrogen, cc/kg	44.6	5.4*	33.11	-	-	-
Lithium, ppm	1.30	0.10**	0.68**	0.10	0.10	0.10
Boron-10, ppm +	516.46	26.66	192.59	441.196	405.132	421.43
Oxygen-16, ppm	2.3	0.000	0.400	0.06	0.05	0.05
Chloride, ppm	0.05	0.05	0.05	0.06	0.05	0.05
pH @ 25°C	7.50	5.29	6.06	5.59	4.72	5.03

+ Boron-10 = Total Boron x 0.196

NON-RADIOACTIVE CHEMICAL
RELEASES, POUNDS
T.S. 4.13.A.67

Phosphate	<u>162</u>	Boron	<u>1088</u>
Sulfate	<u>379</u>	Chromate	<u>1.27</u>
50% NaOH	<u>350</u>	Chlorine	<u>-0-</u>

Remarks: #1 Rx @ 5-11-80 2131 **#1A(217) MIXED BED Flushed and put in Service on
5-19-80 *Notified Supervisor of Operations to Increase Press on VCT

#2 Refueling completed 5-9-80 @2 Rx @ COLD SHUTDOWN

(1) These levels of chemicals should present no major adverse environmental impact.

- 18 -
DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

MAY, 1980

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

May 13 through 19	*	Exceeded 15 ^o F ΔT across station
May 23, 1980	*	Exceeded 15 ^o F ΔT across station
May 25, 1980	*	Exceeded 15 ^o F ΔT across station
May 26, 1980	*	Exceeded 15 ^o F ΔT across station
May 27, 1980	*	Exceeded 15 ^o F ΔT across station
May 28, 1980	*	Exceeded 15 ^o F ΔT across station
May 29, 1980	*	Exceeded 15 ^o F ΔT across station
May 30, 1980	*	Exceeded 15 ^o F ΔT across station
May 31, 1980	*	Exceeded 15 ^o F ΔT across station

*Indicates dates where station ΔT was less than 15.0^oF across the station for sometime during the day.

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

On May 28 or 29, 1980 a fish die-off which occurred was investigated. The die-off does not appear to be related to any temperature effect but a natural occurrence.

FISH KILL INVESTIGATION

MAY, 1980

On the morning of May 29, 1980, a commercial fisherman reported seeing, "...thousands of dead menhaden floating out of the discharge canal". He had observed the fish while tending trot lines located at the Surry Power Station discharge groin sometime during the night of May 28-29, 1980.

An investigation was initiated immediately to determine the validity and extent of the reported fish kill. Intake and discharge temperatures were determined for the night in question, beach and water surveys were conducted, and individual specimens were examined.

A total of 65 dead menhaden were located in an area from 100 yards upstream from the discharge groin to a point one mile downstream. Of this total 34 were found in the slack water inside the groin and 31 were floating in the water near shore throughout the remainder of the area. None of these fish were found on the beach which seems to indicate the fish had died recently. Also, none of the fish were in the flowing water of the discharge canal indicating the reported fish kill was not occurring at the time the surveys were conducted.

Menhaden (*Brevoortia tyrannus*) was the only species observed. All specimens ranged in length from 100mm to 140mm which indicates they were age I fish. None of the 20 specimens examined showed any signs of mechanical damage which rules out the power station screens and culling by fishermen as the cause of death.

Observations were made periodically throughout the evening of May 29, and the early morning hours of May 30, 1980, to watch for any reoccurrence of the reported fish kill. Only two dead fish were observed during the entire night even though the ΔT° across the station and the maximum water temperature were approximately the same as when the dead fish were observed by the fisherman.

Observations during the hours of darkness revealed a possible explanation for the discrepancy between the fisherman's report of "thousands" of dead fish and the small numbers found in our surveys. Foam generated in the turbulence of the Unit 1 discharge breaks into small cohesive patches about the size of the dead menhaden observed. With the use of artificial lighting at night it is extremely difficult to differentiate between the foam and dead fish without moving to within a couple feet of the object observed. When the light was cast across the canal it appeared as if a fish kill was in progress.

Additional beach surveys were conducted on May 30, and June 2, 1980, but no dead fish were found.

Conclusions

Evidence indicates a minor Menhaden die-off occurred in the station discharge canal during the evening of May 28 or the morning of May 29, 1980.

FISH KILL INVESTIGATION

(continued)

A die-off is indicated as opposed to a fish kill directly related to the operational effects of Surry Power Station. The dead fish were exclusively age I menhaden and did not include any age 0 menhaden which are extremely abundant in the river. This pattern has been observed in other natural die-offs of menhaden which have occurred frequently elsewhere in the river. Also, live menhaden were observed in the discharge canal in very large numbers after the reported fish kill. Operational and water temperature conditions during these observations were almost identical to those occurring during the period when the fish kill was reported to have occurred.

The die-off can be termed minor relative to the large natural die-offs observed elsewhere in the river. A die-off on June 14, 1979 investigated by this office and the State Water Control Board found several thousand fish per mile which is much larger than the 65 fish per mile found in this investigation. Fish from the June, 1979 die-off were found on several miles of beach whereas this investigation did not find any fish beyond one mile downstream from the groin.

PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE FSAR

MAY, 1980

None during this reporting period.

- 24 -
DESCRIPTION OF PERIODIC TESTS WHICH WERE NOT
COMPLETED WITHIN THE TIME LIMITS
SPECIFIED IN TECHNICAL SPECIFICATIONS

MAY, 1980

PT-24.6 Fire Protection, Halon 1301 System (Records Vault) was not conducted on Unit No. 1 when scheduled (4-13-80). This monthly test requires that the fire suppression system be checked for proper operation. The test was conducted on April 23, 1980 three days beyond the 25% grace period permitted by Technical Specification 4.0.

PT-34 Electrical Penetration Leakage Test was not conducted on Unit No. 2 when scheduled (5-9-80). This weekly test to verify the integrity of the containment electrical penetrations was conducted on May 13, 1980 two days beyond the 25% grace period established by Technical Specification 4.0.

MAY, 1980

None during this reporting period.

REPORTABLE OCCURRENCES PERTAINING TO
ANY OUTAGE OR POWER REDUCTIONS

MAY, 1980

LER 80-026/01T-0 Delta Flux out of Band longer than one hour

Date of Occurrence: May 12, 1980

Date Report Submitted: May 22, 1980

LER 80-030/01T-0 Excessive Boric Acid in "A" Boric Acid Storage
 Tank and No. 1 Boron Injection Tank

Date of Occurrence: May 20, 1980

Date Report Submitted: Due June 3, 1980

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

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

REFSERVDT	SYS	COMP	MARKNO	SUMMARY	WKTFRF	U	MK	TOTDMMTM
05/01/80	CC	PIPING	6-CC-159	DC 19-S32C INSTALL SPRING HANGER	COMPLETED	1	003260947	255
05/01/80	CC	PIPING	6-CC-159	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004041000	333
05/01/80	CH	PIPING	4-CH-194	DC 19-S32C REMOVE CONSTRAINT	REMOVED CONSTRAINT	1	004081121	5
05/01/80	CH	PIPING	3-CH-2	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004141322	65
05/01/80	CH	PIPING	3-CH-81	DC 19-S32C INSTALL SUPPORT	COMPLETED	1	004141325	255
05/01/80	BD	PIPING	3-WGCB-3	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004150131	65
05/01/80	BR	PIPING	2-BR-11	D/C 19-S32C REMOVE SUPPORT	REMOVED SUPPORT	1	004190104	29
05/01/80	CH	PIPING	3-CH-19	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004230100	184
05/01/80	VS	FILTER	1-VS-F-42	CHANGE PREFILTERS	CHANGED PREFILTER	1	004300858	34
05/01/80	VS	FILTER	1-VS-F-41	CHANGE PREFILTERS	CHANGE PREFILTER	1	004300859	34
05/01/80	VS	FILTER	2-VS-F-41	CHANGE PREFILTER	CHANGE PREFILTER	1	004300900	34
05/02/80	SI	PIPING	3-SI-10	DC 19-S32C INSTALL STRAP	COMPLETED	1	003251247	219
05/02/80	SS	VALVE	TV-SS-104A	LEAK THRU BADLY WHEN SHUT	INSTALLED VALVE	1	004021305	587
05/02/80	SI	PIPING	10-SI-106	DC 19-S32C MODIFY CONSTRAINT	COMPLETED	1	004040858	219
05/02/80	CH	PIPING	3-CH-19	DC 19-S32C MODIFY CONSTRAINT	COMPLETED	1	004041536	208
05/02/80	BD	PIPING	3-WGCB-2	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004041539	208
05/02/80	CH	PIPING	3-CH-11	DC 19-S32C INSTALL STRAP CONSTRAINT	COMPLETED	1	004090833	69
05/02/80	CH	PIPING	3-CH-69	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004141100	89
05/02/80	CH	PIPING	3-CH-10	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004141109	89
05/02/80	BD	PIPING	3-WGCB-1	D/C 19-S32C REMOVE SUPPORT	REMOVED SUPPORT	1	004230118	46
05/02/80	BD	PIPING	3-WGCB-1	D/C 19-S32C REMOVE SUPPORT	REMOVED SUPPORT	1	004230119	47
05/02/80	CH	PIPING	3-CH-1	D/C 19-S32C REMOVE SUPPORTS	REMOVED SUPPORT	1	004230123	46
05/02/80	CH	PIPING	3-CH-11	D/C 19-S32C INSTALL GUSSETT	INSTALLED GUSSETT	1	004240901	24
05/02/80	FW	PIPING	6-WA-FD-50	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004260812	71
05/02/80	CC	VALVE	TV-CC-110A	ADJUST LIMITS	REPAIRED PROBLEM WITH VALVE	1	004261100	47
05/02/80	CC	VALVE	TV-CC-110B	ADJUST LIMITS	REPAIRED PROBLEM WITH VALVE	1	004261101	47
05/02/80	CC	VALVE	TV-CC-110C	ADJUST LIMITS	REPAIRED PROBLEM WITH VALVE	1	004261102	47
05/02/80	RC	VALVE	PCV-1455C	FORW LEAKS BY SEAT	REPAIRED LEAK	1	004302115	24
05/03/80	SS	VALVE	TV-SS-104B	REPLACE LEAKS THRU ON 16.4	INSTALLED NEW VALVE	1	004021306	11
05/04/80	CH	PUMP	1-CH-P-2A	USES EXCESSIVE OIL	REPAIRED OIL LEAK	1	002111205	244
05/04/80	CH	PIPING	1-CH-12	DC 19-S32C INSTALL SWAY STRUT	COMPLETED	1	004041403	257
05/04/80	CH	PIPING	1-CH-13	DC 19-S32C INSTALL SWAY STRUT	COMPLETED	1	004041404	406
05/04/80	CH	PIPING	3-CH-19	DC 19-S32C INSTALL SWAY STRUT	COMPLETED	1	004041533	257
05/04/80	CC	PIPING	3-CC-39	DC 19-S32C INSTALL STRAP CONSTRAINT	INSTALLED STRAP	1	004081122	98
05/04/80	CS	PIPING	6-CS-31	DC 19-S32C INSTALL STRAP	INSTALLED STRAP	1	004090832	101
05/04/80	CH	PIPING	3-CH-11	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004141116	138
05/04/80	BD	PIPING	3-WGCB-1	DC 19-S32B INSTALL SUPPORT	COMPLETED	1	004141130	313
05/04/80	CH	PIPING	1-CH-91	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004161041	257
05/06/80	GW	PIPING	6-GW-18	DC 19-S32C MODIFY SUPPORT	COMPLETED	1	003211454	499
05/06/80	BD	PIPING	3-WGCB-1	DC 19-S32C INSTALL SWAY STRUTS	COMPLETED	1	004040851	306
05/06/80	SI	PIPING	3-SI-12	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004040854	497
05/06/80	CC	PIPING	8-CC-15	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004141327	362
05/06/80	CC	PIPING	8-CC-153	DC 19-S32C INSTALL SUPPORT	COMPLETED	1	004141332	362
05/06/80	CH	PIPING	4-CH-89	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004150140	187
05/06/80	CC	PIPING	10-CC-67	D/C 19-S32A INCREASE WELD	COMPLETED	1	004170143	85
05/06/80	CC	PIPING	6-CC-158	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004181450	306
05/06/80	BD	PIPING	1-WGCB-60	D/C 19-S32C REMOVE SUPPORTS	REMOVED SUPPORTS	1	004230121	141

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

RET/REV/DPT	SYS	COMP	MARKNO	SUMMARY	WKT/PERF	U	MK	TOT/DWNTM
05/06/80	CH	PIPING	3-CH-1	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004260813	169
05/06/80	RM	PUMP		REBUILD SHOP SPARE	RENEWED VANES ADJUSTED PUMP	1	005052110	12
05/06/80	RM	PUMP		REBUILD SHOP SPARE	RENEWED VANES AND ADJUSTED PUMP	1	005052115	12
05/07/80	SI	VALVE	1-SI-22B	BLOCK CHECK VALVE SHFT	INSTALLED AND REMOVED BLOCK	1	004150911	499
05/07/80	SI	VALVE	1-SI-229	BLOCK CHECK VALVE SHFT	INSTALLED AND REMOVED BLOCK	1	004150912	499
05/07/80	RM	PUMP	RM-RM-159/160	REBUILD SHOP SPARE	RENEWED NEW VANES IN VACUUM PUMP	1	005022100	36
05/08/80	GW	PIPING	4-GW-50	DC 19-S32C INSTALL STRUT	COMPLETED	1	003260948	432
05/08/80	SI	PIPING	10-SI-106	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004040855	432
05/08/80	CC	PIPING	6-CC-19	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004041001	504
05/08/80	CH	PIPING	3-CH-19	DC 19-S32C INSTALL SWAY STRUT	COMPLETED	1	004041531	360
05/08/80	RH	PUMP	1-RH-P-1B	HIGH VIBRATION	REPAIRED PUMP	1	004061610	150
05/08/80	SI	PIPING	10-SI-105/106	DC 19-S32C MODIFY CONSTRAINT	COMPLETED	1	004081128	240
05/08/80	CH	PIPING	3-CH-22	DC 19-S32C INSTALL STRUT CONSTRAINT	COMPLETED	1	004081131	240
05/08/80	CC	PIPING	3-CC-121	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004140947	240
05/08/80	AS	PIPING	6-AS-4	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004141015	504
05/08/80	CH	PIPING	3-CH-3	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004141320	408
05/08/80	CH	PIPING	3-CH-81	DC 19-S32C INSTALL SUPPORT	COMPLETED	1	004141321	408
05/08/80	CH	PIPING	3-CH-19	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004141323	408
05/08/80	CH	PIPING	3-CH-2	DC 19-S32C INSTALL SUPPORT	COMPLETED	1	004141326	240
05/08/80	CC	PIPING	6-CC-120	D/C 19-S32C INSTALL SUPPORT	COMPLETED AS PER SKETCH	1	004141328	312
05/08/80	SI	PIPING	3-SI-58	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004150737	312
05/08/80	RL	PIPING	3-RL-6	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004150738	240
05/08/80	BD	PIPING	3-WGCB-2	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004150739	240
05/08/80	SI	PIPING	3-SI-12	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004150741	240
05/08/80	SI	PIPING	3-SI-147	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004170740	360
05/08/80	CC	PIPING	6-CC-19	D/C 19-S32C INSTALL SUPPORT	COMPLETED	1	004221421	216
05/08/80	FV	PUMP	1-FV-P-3A	OIL LEAK ON INBOARD	INSPECTED DRGS	1	005020510	20
05/08/80	RM	PUMP	RM-159/160	DRAWING OVERLOAD AMPS	INSPECTED PIPING	1	005021610	27
05/08/80	RL	PIPING	3-RL-6	D/C 19-S32C INSTALL SUPPORT MOD.	COMPLETED	1	005061332	48
05/08/80	BS	OTHER		PINS FOR INTERLOCK MISSING	PUT BOTH PINS ON DOOR	1	005061550	27
05/08/80	BR	PUMP	1-BR-P-1A	SEAL LEAKS PROFUSELY	REPAIRED LEAK	1	012160712	432
05/09/80	CH	MOV	MOV-CH-1350	VALVE LEAKS THROUGH	REPAIRED LEAK	1	001242119	33
05/09/80	SI	INSTR	FI-1934	FLOW METER INDICATE HI	INSTALLED NEW FLOW METER	1	002260810	55
05/09/80	SI	PIPING	12-SI-5	DC 19-S32C MODIFY CONSTRAINT	COMPLETED	1	004040856	456
05/09/80	SI	PIPING	12-SI-1	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004040857	456
05/09/80	CS	PIPING	6-CS-31	DC 19-S32C INSTALL CONSTRAINT	COMPLETED	1	004041535	456
05/09/80	RS	PIPING	4-RS-15	DC 19-S32C INSTALL SPRING HANGER	COMPLETED	1	004090831	240
05/09/80	SI	PIPING	10-SI-106	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004141144	264
05/09/80	SI	PIPING	10-SI-107	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004161042	264
05/09/80	DG	PIPING	2-DG-42	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004170741	240
05/09/80	DG	PIPING	2-DG-42	D/C 19-S32C SUPPORT MOD.	COMPLETED	1	004170742	240
05/09/80	CC	HX	1-CC-R-1A	CLEAN AND CHECK FOR LEAKS	CLEANED HEADERS NO LEAKS	1	005061448	58
05/09/80	DG	VALVE	1-DG-11	BODY TO BONNET LEAK	REPLACED DIAPHRAGM+ORINGS	1	005071402	21
05/09/80	IA	COMPRESS	1-IA-C-2A	UNLOADER AIR LINE HAS SEPARATED	REPAIRED AIR LINE	1	005071420	11
05/09/80	PR	SPRG HGR		REWELD CUT PIPE HANGER	REWELD PIPE HANGER	1	005090915	4
05/10/80	CH	PUMP	1-CH-P-2A	PUMP IS FROZEN	REPAIRED PUMP	1	005060600	41
05/11/80	CH	PUMP	1-CH-P-2.1	SUCTION FLANGE LEAK	REPAIRED LEAK	1	005102330	7

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

REFSERVDT	SYS	COMP	MARKNO	SUMMARY	WKTFR	J	MR	TOTDWNTRM
05/12/80	DG	VALVE	1-DG-10	BODY TO BONNET LEAK	REPAIRED LEAK	1	004301545	264
05/12/80	DG	VALVE	1-DG-14	LEAKS AROUND BONNET	REPAIRED LEAK	1	005021150	216
05/12/80	CH	PIPING	1-CH-229-152	LINE PLUGGED	CUT LINE UNPLUGGED SAME AND REWELD	1	005100845	46
05/13/80	BR	VALVE	1-BR-236	1-BR-236 LEAKS BY	REWORKED VALVE	1	004241001	13
05/13/80	FP	PUMP	1-FP-2-2	GOVERNOR ON ENGINE FOR FIRE PMP	RESET GOVERNOR	1	005130931	2
05/14/80	BR	PUMP	1-BR-7-1B	INSTALL COUPLING	INSTALLED COUPLING	1	004021545	997

DEPT TOTAL								22178

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

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

REFSEAVDT	SYS	COMP	MARKNO	SUMMARY	WKFEEF	J	MR	TOTDWNTRM
05/01/80	CC	VALVE	2*CC*154	CHECK VALVE DOES NOT STOP FLOW	CLEANED IN VALVE	2	0011/1230	161
05/01/80	VS	FILTER	2*VS*E*42	CHANGE PREFILTER	CHANGE PREFILTERS	2	004300851	34
05/01/80	SI	PUMP	2*SI*P*1A	DISCHARGE FLANGE LEAKING	REPLACED GASKET	2	912051412	2499
05/03/80	SI	VALVE	2*SI*225	LEAKS THRU EXCESSIVELY	CLEANED VALVE	2	004140945	206
05/03/80	RC	VALVE	2*RC*160	VALVE LEAKS THROUGH	LAPPED DISC + SEAT	2	004251035	71
05/03/80	SI	VALVE	2*SI*226	VALVE LEAKS THROUGH	REPAIRED PIN CLIP	2	004251036	41
05/03/80	VA	VALVE	2*VA*9	VALVE LEAKS THRU	LAPPED DISC+SEATS	2	004251037	118
05/03/80	RS	VALVE	2*RS*23	LEAKS THRU	CLEANED LINE	2	005211802	58
05/04/80	PH	OTHER		MANUFACTURE AND INSTALL A GUARD	INSTALLED GUARD ON MANIPULATOR CRANE	2	005020807	46
05/05/80	RS	VALVE	MOV*RS*255A+B	INSTALL BLANK FLANGE	INSTALLED BLANK	2	003191114	1104
05/05/80	RS	VALVE	MOV*RS*256A	INSTALL SPECTACLE FLANGES	INSTALLED BLANK	2	003191125	1104
05/05/80	RS	VALVE	MOV*RS*256B	INSTALL TEST SPECTACLE FLANGE	INSTALLED BLANKS	2	003191144	1104
05/05/80	MS	VALVE	2*MS*157	POWER OPERATED RELIEF VALVE	LAPPED DISC + SEAT	2	004101435	65
05/05/80	MS	VALVE	RV*MS*201C	VALVE LEAK THROUGH	REPLACE PILOT VALVE+DISC	2	004141111	72
05/05/80	MS	VALVE	RV*MS*201A	VALVE LEAK THROUGH	REPLACED PILOT VALVE+DISC	2	004141112	72
05/08/80	VS	MOV	MOV*VS*200A	REPACK-LEAK ON IT 16.4	ADJUSTED PACKING	2	004021620	838
05/08/80	VS	MOV	MOV*VS*200A	LEAKS THRU ON IT 16.4	NO LEAKS	2	004021700	838
05/09/80	BD	VALVE	TV*BD*200D	BODY TO BONNET LEAK	LAPPED SEAT + LAPPED	2	0030/1002	122
05/09/80	BD	VALVE	TV*BD*200C	LEAKS THRU	REPAIRED	2	0030/1003	1509
05/09/80	BD	VALVE	TV*BD*200A	LEAKS THRU	REPAIRED	2	0030/1004	285
05/09/80	FW	MOV	MOV*FW*251A	MOV LEAKS BY	REPACKED VALVE	2	004090913	71
05/09/80	FW	MOV	MOV*FW*251B	MOV LEAKS BY	REPACKED VALVE	2	004090914	71
05/09/80	FW	MOV	MOV*FW*251C	MOV LEAKS BY	REPACKED VALVE	2	004090915	71
05/09/80	FW	MOV	MOV*FW*251E	MOV LEAKS BY	REPACKED VALVE	2	004090917	71
05/09/80	FW	MOV	MOV*FW*251F	MOV LEAKS BY	REPACKED VALVE	2	004090918	71
05/09/80	BD	VALVE	TV*BD*200B	EXCESSIVE LEAKAGE	LAPPED DISCSEAT	2	004260958	122
05/09/80	RM	VALVE	2*RM*4	LINE TO VALVE PLUGGED WITH SOLDER	REPLACED VALVE	2	004290900	73
05/09/80	FW	VALVE	2*MOV*FW*251F	DISASSEMBLE LIMITORQUE FOR INSPECT.	UNSTUCK	2	004291230	211
05/09/80	MS	VALVE	2*MS*170C	REWORK SEAT AND REPACK	REPACKED VALVE	2	912030100	73
05/09/80	MS	VALVE	2*MS*167	REWORK SEAT AND REPACK	REPACKED VALVE	2	912030103	73
05/09/80	MS	VALVE	2*MS*168C	REWORK SEAT AND REPACK	REPACKED VALVE	2	912030113	73
05/09/80	MS	VALVE	2*MS*169C	REWORK SEAT AND REPACK	REPACKED VALVE	2	912030114	73
05/12/80	CV	PUMP	2*CV*P*10	NO BOLTS ON PUMP	REPLACE BELT	2	005070401	3
05/13/80	RS	HX	2*RS*E*1D	IT 16.4	INSTALLED NEW MONEL DIAP	2	002290830	1777
05/13/80	MS	VALVE	2*MS*178	PACKING LEAK	FIXED LEAK	2	003180900	66
05/13/80	VS	VALVE	MOV*VS*200D	REPLACE GASKETS ON DUCTING	REPLACED GASKETS	2	003230500	123
05/13/80	CC	VALVE	2*CC*218	PACKING LEAK	REPACKED VALVE	2	003271203	157
05/13/80	RS	HX	2*RS*E*1C	REPLACE DIAPHRAGM	INSTALLED NEW DIAPHRAM	2	004171330	599
05/13/80	VS	MOV	MOV*VS*200B	SHAFT SCORED BADLY	CANCELLED	2	005091203	31
05/13/80	SI	PIPING	10*SI*214*153	REMOVE FLOW ORIFICE	REMOVED FLOW ORIFICE	2	005120824	26
05/14/80	CH	PUMP	2*CH*P*1A	PUMP CASING BOLT LEAKS	REPAIRED BOLT LEAK ON NO 4 AND 10	2	001041753	2670
05/14/80	BS	OTHER		REPAIR INNER DOOR OF EQUIP HATCH	ADJUSTED DOORS	2	004241013	139
05/15/80	EE	VALVE		OIL LEAK AT MECHANICAL FILTER	TIGHTENED PIPE COUTLING	2	005110147	12
05/16/80	VS	MOV	MOV*VS*200A	REMOVE SPOOL	A TESTED VALVE SAT	2	005031624	264
05/16/80	FR	SPRG HGR		COLD SETTING 5809 HOT 4931	PUT IN SPRING HANGER	2	005080929	120
05/16/80	FR	SPRG HGR		COLD SETTING 5348 HOT 4403	PUT IN SPRING HANGER	2	005080931	120
05/17/80	MS	SV/AV	SOV*MS*206C3	VALVE DOES NOT OPEN	FIXED VALVE	2	003260800	21

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

RETSE/RVDT	SYS	COMP	MARKNO	SUMMARY	WKT/PERF	U	MK	TOTDWTM
05/11/80	RC	VALVE	PCV-2455C	OVERHAUL VALVE	MACHINED PLUG AND LAPPED TO SEAT	2	005041510	285
05/11/80	RC	VALVE	PCV-2456	OVERHAUL VALVE	MACHINED PLUG AND LAPPED TO SEAT	2	005041511	205
05/11/80	RC	VALVE	PCV-2455C	DIAPHRAGM LEAKING AIR	TIGHTENED BOLTS	2	005161230	/
05/11/80	RC	VALVE	PCV-2456	DIAPHRAGM LEAKING AIR	TIGHTENED BOLTS	2	005161231	/
05/18/80	FH	OTHER		AIR HOSE NEEDS TO BE REPLACED	REPLACED HOSE	2	003310936	984
05/18/80	CV	PUMP	SPARE	REBUILD SPARE PUMP	REBUILT PUMP	2	005170145	21
05/19/80	RC	VALVE	SV-2551C	RELIEF VALVE IS MISSING	REPLACED BOLT	2	005161227	1
05/19/80	RC	VALVE	SV-2551B	RELIEF VALVE IS MISSING	REPLACED BOLT	2	005161228	1
05/19/80	RC	VALVE	SV-2551A	RELIEF VALVE IS MISSING	REPLACED BOLT	2	005161229	1
05/21/80	FW	VALVE	2-FW-3	PACKING LEAK-CONSTRUCTION DEF	ADJUSTED PACKING	2	001310925	1473
05/21/80	FW	VALVE	2-FW-6	PACKING LEAK-CONSTRUCTION DEF	ADJUSTED PACKING	2	001310926	9
05/21/80	DG	VALVE	TV-DG-208A	LEAKS THRU ON IT 16.4	LAPPED PLUG SEAT RING NEW GASKETS	2	005160926	33
05/21/80	BS	OTHER		EQUALIZING VALVE ON INNER DOOR	REPLACE ORINGS	2	005190901	18
05/21/80	BS	OTHER		PERSONNEL HATCH DOOR	INSTALLED HANDLE	2	005192258	18
05/21/80	CH	VALVE	RV-2203	BLANK FLANGE INLET TO RELIEF VALVE	BLANK INSTALL	2	005201210	29
05/21/80	CH	VALVE	2-CH-315	REMOVE BLANK FLANGE FROM VALVE	REMOVED FLANGE	2	005201211	29
05/21/80	SI	MOV	MOV-2860B	WATER IN GEAR	CLEANED GREASED	2	005201600	6
05/21/80	CC	VALVE	TV-CC-209A	BENT SHAFT-WILL NOT SHUT	NO MECH REPLACED SHAFT	2	005201727	8
05/22/80	FW	VALVE	2-FW-500	PACKING LEAK-CONSTRUCTION DEF	ADJUSTED PACKING	2	001310927	1
05/22/80	SW	PIPING	24-WS-133-10	REMOVE EXPANSION JOINT	REPAIRED MANUAL SHAFT	2	003051417	401
05/22/80	RS	HX	2-RS-E-1D	INSPECT	COMPLETED	2	004290905	456
05/22/80	RS	HS	2-RS-E-1C	INSPECT FOR TRASH	COMPLETED	2	004290906	456
05/22/80	VS	MOV	MOV-VS-200B	REPACK-PACKING LEAKS ON IT 16.4	REPACKED	2	005091200	240
05/22/80	VS	MOV	MOV-VS-202	REPACK-PACKING LEAKED ON IT 16.4	REPACKED	2	005091202	240
05/22/80	VS	MOV	MOV-VS-200D	PACKING LEAKED ON IT 16.4	REPACKED	2	005151045	144
05/22/80	VS	MOV	MOV-VS-201	PACKING LEAKED ON IT 16.4	REPACKED	2	005151046	144
05/22/80	RC	PIPING	2-RC-43	PIPING LEAK ON LINE	INSTALLED COUPLING IN LINE	2	005161700	54
05/22/80	BS	OTHER		LOCK PINS NOT INSTALLED	INSTALLED LOCK PINS	2	005192259	10
05/23/80	SI	VALVE	MOV-2860A	HIGH AMPS	GREASED LIMITORQUE	2	004291055	46
05/23/80	CG	VALVE	2-CG-24	SPECTACLE FLANGES	INSTALLED AND REMOVED BLANKS	2	005131135	223
05/23/80	BS	OTHER		CONTAINMENT LINER TEST CHANNELS	INSTALLED PIPE PLUGS	2	005192256	9
05/24/80	FH	OTHER		REMOVE DILLON LOAD CELL	REMOVED GAUGE	2	005230954	1
05/21/80	CV	VALVE	TV-CV-250B	LEAKS THRU ON IT 16.4	-VOID	2	003211546	0
05/21/80	RC	PIPING	3/8-SS-308-1CN	SAMPLE LINE BROKEN	INSTALLED NEW LINE	2	005161616	19
05/21/80	BS	OTHER		GRIND STUD OFF LINER	REMOVED STUD FASTEN TO CONT WALL	2	005221153	117
05/21/80	SI	PUMP	2-SI-P-1A	LOOSEN SEISMOGRAPHIC RESTRAINT	LOOSENE RESTRAINT AND REPLACED	2	005230959	68
05/21/80	SI	PUMP	2-SI-P-1B	LOOSEN SEISMOGRAPHIC RESTRAINT	LOOSENE RESTRAINTS AND REPLACED	2	005230951	68
05/21/80	RS	PUMP	2-RS-P-2B	LOOSEN SEISMOGRAPHIC RESTRAINTS	LOOSENE RESTRAINT AND REPLACED	2	005230952	68
05/21/80	RS	PUMP	2-RS-P-2A	LOOSEN SEISMOGRAPHIC RESTRAINTS	LOOSENE RESTRAINTS AND REPLACED	2	005230953	68
05/21/80	CR	OTHER		REMOVE VENT PLATES OR VENT POLAR CR	OPENED INSPECTION PLATES+REPLACED	2	005230955	65
05/28/80	TR	SNUBBER	2-RS-HSS-104	SNUBBER NEED OIL	REPLACED SNUBBER	2	005150825	145
05/28/80	RC	INSTR	TE-2-453	REMOVE SHEARED PIPE NIPPLE	REMOVED BROKEN NIPPLE	2	005211758	2
05/28/80	BS	OTHER		REPAIR TEST CHANNEL	TAPED HOLE INSTALLED PLUG	2	005251536	6
05/29/80	RC	VALVE	2-RC-70	PACKING LEAKING	TIGHTEN PACKING	2	002090800	3
05/29/80	SW	VALVE		BOTH FLANGES LEAK	TIGHTENED FLANGES	2	003051241	20
05/29/80	RC	VALVE	2-RC-96	VALVE HAS PACKING LEAK	TIGHTEN PACKING	2	004080619	3
05/29/80	SI	VALVE	HCV-2851A	PACKING LEAK	CLEANED VALVE ADJUSTED PACKING	2	004150402	5

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

RETSEAVDT	SYS	COMP	MARKNO	SUMMARY	WRTFR	U	MR	TOTDWTM
05/29/80	SI	VALVE	2-SI-142	PACKING + BODY TO BONNET LEAK	CLEANED VALVE TIGHTEN PACKING	2	004150408	6
05/29/80	KC	VALVE	2-KC-91	VALVE HAS PACKING LEAK	TIGHTEN PACKING	2	005131301	3
05/29/80	KC	VALVE	2-KC-99	VALVE HAS PACKING LEAK	TIGHTEN PACKING	2	005131305	3
05/29/80	KC	VALVE	2-KC-98	VALVE PACKING LEAKS	TIGHTEN PACKING	2	005131306	3
05/29/80	VS	FILTER	2-VS-FL-1A	IODINE FILTER NEEDS TO BE CHANGED	CHANGED PREFILTERS	2	908240510	13
05/29/80	VS	FILTER	2-VS-FL-1B	IODINE FILTER	REPLACED PREFILTERS	2	908240512	21
05/30/80	SI	VALVE		DEFICIENCY PUNCH LIST	CLEANED VALVES ADJUSTED PACKING	2	002191441	48
05/30/80	DG	VALVE	TV-DG-208B	LEAKS THRU	LAPPED VALVE 100 PERCENT SEAT/PENG C	2	003241601	168
05/30/80	DA	VALVE	TV-200B	DISC SEPARATED FROM STEM	LAPPED SEAT AND DISC TO 100PERCENT	2	004091316	168
05/30/80	SI	VALVE	RV-2859	LEAKING ON INLET FLANGE	TIGHTENED BOLTS	2	005211310	30
05/30/80	ES	PIPING		BOLT LOOSE ON EXHAUST EXPANSION JOINT	REPLACED BOLT AND NUT	2	005281543	2
05/31/80	SW	VALVE		CHECK VALVES IN SERVICE WATER LINES	TIGHTENED BOLTS	2	004151511	15

DEPT TOTAL

24421

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

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

RET/SERV DT	SYS	COMP	MARKNO	SUMMARY	WKF/FR	U	HR	TOT/DW/NTM
05/01/80	CH	HT	CKT2FNL9	REPLACE HEAT TAPE	REPLACED WITH NEW ECONO-WRAP HT TAPE	1	004091000	353
05/01/80	CH	HT	CKT2FNL8	REPLACED HEAT TAPE	REPLACED WITH NEW ECONO-WRAP HT TAPE	1	004091001	353
05/01/80	SS	VALVE	TV-SS-102B	CHECK LIMIT SWITCH	ADJUSTED SWITCHES OPERATES SAT	1	004261300	33
05/01/80	SW	MOV	MOV-SW-106B	VALVE DOES NOT OPEN FULLY	ADJ. LIMIT SWITCH	1	004261847	55
05/01/80	CL	OTHER	CR-CLS-1A10	REPLACE RELAY	REPLACED RELAY	1	004292117	50
05/01/80	CL	OTHER	CR-CLS-1A11	REPLACE RELAY	REPLACED RELAY	1	004292118	50
05/01/80	SI	INSTR	2-SI-AK	REPLACE DEFECTIVE RELAY	REPLACE BFD RELAY OPERATED SAT	1	004300600	41
05/02/80	CS	INSTR	C-G-5	RWST LO-LO LEVEL ALARM	REPLACED SWITCH	1	004151506	101
05/02/80	CL	OTHER	3/4 CLS-1A	REPLACE 3/4 CLS-1A RELAY	REPLACED RELAY	1	004300340	57
05/02/80	SI	MOV	MOV-SI-1862A	DISCONNECT ELECTRICALLY	MOV READY FOR SERVICE	1	302280815	9399
05/06/80	SS	VALVE	TV-SS-103	TV-SS-103 WILL NOT OPEN	TESTED SAT	1	005010906	30
05/06/80	EE	DIESEL	EDG 1	SMOKE COMING FROM GOVERNOR	REPLACED MOTOR TESTED SAT	1	005020200	116
05/06/80	EE	DIESEL	EDG 3	COULD NOT CONTROL SPEED	TESTED DIESEL SAT	1	005020800	39
05/06/80	RH	INSTR	MOV-RH-100	REPAIR LEVEL SWITCHES	CLEANED AND READJUSTED	1	005021012	109
05/07/80	RM	PMP MTR	1-RM-RMS-159	MOTOR RUNS HOT	REPLACED MOTOR	1	004300748	160
05/07/80	SS	VALVE	TV-SS-104B	VALVE POSITION INDICATION	REMOVED SHORT BETWEEN NC AND NO CONT	1	005050500	8
05/08/80	RM	PMP	RM-RMS-159/160	CHECK MOTOR	REPLACED MOTOR OPERATES SAT	1	005052205	63
05/09/80	RH	PMP MTR	1-RH-P-1A	REPLACE UPPER MTR RADIAL BRG	BEARINGS REPLACED	1	004041330	836
05/09/80	RH	PMP MTR	1-RH-P-1B	DISCONNECT+RECONNECT MTR FOR MECH	MOTOR BACK IN SERVICE	1	004061611	51
05/09/80	RC	PMP MTR	1-RC-P-1C	DISCONNECT AND INSPECT MOTOR	COMPLETED AS PER ABOVE PROCEDURES	1	004081335	696
05/09/80	CS	INSTR	C-G-4	RWST HI-HI LEVEL ALARM	REPLACED SWITCH	1	004151505	264
05/09/80	SI	HT	FNLCKT24D	LOW AMP READING	CIR REPAIRED	1	005031443	0
05/09/80	SI	HT	FNLCKT24C	LOW AMP READING	CIR REPAIRED	1	005031444	137
05/09/80	SI	HT	FNL2CKT22A	LOW AMP READING	CIR REPAIRED	1	005031445	113
05/09/80	SI	HT	FNL2CKT24C	LOW AMP READING	CIR REPAIRED	1	005031446	137
05/09/80	RH	INSTR	1-RH-P-1A	SIGHT GLASS DIRTY	REMOVED CLEANED AND REPLACED SIGHTGL	1	005041335	14
05/09/80	SW	PUMP	1-SW-P-1B	REPLACE BAD BATTERIES	REPLACED BATTERIES AND TESTED	1	005060935	45
05/09/80	SI	HT	FNL1+2CKT24D	REMOVE HT	TAPE REPLACED CIRCUIT BACK IN SERVIC	1	005070900	51
05/09/80	DA	VALVE	TV-DA-100A	CHECK OPERATION LIMIT SWITCHES	ADJUSTED LIMITS CYCLED SAT	1	005070912	21
05/10/80	SS	VALVE	TV-SS-104B	LINE UP LIMIT SWITCHES	OPERATED SATISFACTORY	1	005061534	36
05/11/80	CH	VALVE	MOV-CH-1350	ADJ. LIMIT SWITCHES	REPLACED TORQUE SWITCH	1	005081235	187
05/13/80	CL	OTHER	H	CHANGE OUT BFD RELAYS	COMPLETED SAT	1	005021430	722
05/13/80	CL	OTHER	A	CHANGE OUT BFD RELAYS	COMPLETE+SAT	1	005021432	249
05/13/80	CH	HT	FNLBCKT21A	REPLACE THERMOSTATS	REPLACED THERMOSTAT	1	005081300	85
05/13/80	SI	INSTR	LC-495-A-2X	STEAM GEN LO LO LEVEL	DISCONNECTED AND REMOVED DEFECTIVE R	1	005091325	84
05/13/80	SW	VALVE	MOV-SW-102B	WATER IN MOV	MOV CLEAN DRY AND BACK IN SERVICE	1	005091612	81
05/13/80	CS	MOV	MOV-CS-101C	CHECK POSITION LIMITS	RESET LIMITS ADJUSTED LIMIT SAT OF	1	005100303	70
05/13/80	CS	MOV	MOV-CS-101D	CHECK POSITION LIMITS	TESTED SAT	1	005100653	67
05/13/80	CH	HT	FNLBCKT30	REMOVE HEAT TRACING	TESTED SAT	1	005100930	75

DEPT TOTAL

15146

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

JUNIT2
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSEVDT	SYS	COMP	MARKNO	SUMMARY	WKTFRF	J	MR	TOTDWRFM
05/01/80	CH	HT	PNL 8+9CKT23	FULL FILTER HEAD	COMPLETE	2	00427146	65
05/01/80	SI	MOV	MOV-SI-2860A	MOV TMS	TMS COMPLETE	2	901251502	9/02
05/01/80	SI	MOV	MOV-SI-2863A	MOV TMS	BREAKER PERFORMED SAT	2	901251506	10255
05/01/80	SI	MOV	MOV-SI-2861D	MOV TMS	MOV TMS COMPLETE	2	901251510	9999
05/01/80	SI	FMP MTR	2-SI-P-1A	DISCONNECT + RECONNECT FOR MECH	MOTOR PERFORMED SAT	2	912071400	3485
05/02/80	RM	VALVE	TV-RM-200C	CHANGE EXISTING SOV	REPLACED SOLENOID WITH NEW STYLE	2	004080939	24
05/02/80	SS	INSTR	TV-SS-203	CONTACT DISC VALVE NEEDS ADJUSTING	TESTED SAT	2	004262150	24
05/02/80	CS	MOV	MOV-CS-202A	MOV TMS	MOV TMS COMPLETE	2	901251435	9999
05/02/80	CS	MOV	MOV-CS-202B	MOV TMS	MOV TMS COMPLETE	2	901251436	9999
05/02/80	SI	MOV	MOV-SI-2862A	MOV TMS	MOV TMS COMPLETE	2	901251504	9999
05/02/80	SI	MOV	MOV-SI-2861A	MOV TMS	MOV TMS COMPLETE	2	901251509	9999
05/02/80	SI	MOV	MOV-SI-2865B	MOV TMS	MOV TMS COMPLETE	2	902140749	9999
05/02/80	SI	MOV	MOV-SI-2865C	MOV TMS	MOV TMS COMPLETE	2	902150750	9999
05/02/80	SI	MOV	MOV-SI-2861A	DISCONNECT+RECONNECT FOR MECH	MOV READY FOR SERVICE	2	907232230	6797
05/08/80	RS	FMP MTR	2-RS-P-2B	DISCONNECT+RECONNECT FOR MECH	TESTED SAT	2	002111200	2073
05/08/80	RS	FMP MTR	2-RS-P-2A	DISCONNECT AND RECONNECT FOR MECH	TESTED SAT	2	002111201	2076
05/09/80	ETL	BREAKER	24J7	FM BREAKER	PERFORMED TMS	2	004111440	96
05/09/80	SW	VALVE	MOV-203A	REMOV AND TEST FOR LEAKAGE	ADJUST LIMIT SWITCHES	2	004181501	472
05/09/80	SI	MOV	MOV-SI-2865A	MOV TMS	MOV TMS COMPLETE	2	901251513	10625
05/13/80	CC	VALVE	HCV-2460B	CHANGE EXISTING SOV	REPLACED SOV	2	004080930	808
05/13/80	CC	VALVE	HCV-2460A	CHANGE EXISTING SOV	REPLACED SOV	2	004080931	808
05/13/80	FW	VALVE	NOV-FW-251D	VALVE OPEN WHEN SHOULD BE SHUT	VALVE OPERATES AS DESIGNED	2	004211429	26
05/13/80	MS	VALVE	NRV-MS-201A	BAD BEARING IN MOTOR	BEARING REPLACED	2	004231555	421
05/13/80	FE	OTHER	C-2	C-2 LEAKS AT CABLE VAULT INNER SEAL	STOPPED LEAK	2	004241426	171
05/13/80	FE	OTHER	D-3	D-3 LEAKS AT CABLE VAULT INNER SEAL	STOPPED LEAK	2	004241429	171
05/13/80	FE	OTHER	B-4	B-4 LEAKS AT CABLE INNER SEAL	STOPPED LEAK	2	004241430	171
05/13/80	FE	OTHER	A-5	A-5 LEAKS AT CABLE VAULT INNER SEAL	STOPPED LEAK	2	004241431	171
05/13/80	FE	OTHER	D-5	D-5 LEAKS AT CABLE VAULT INNER SEAL	STOPPED LEAK	2	004241432	194
05/13/80	FE	OTHER	A-6	A-6 LEAKS AT CABLE VAULT	STOPPED LEAK	2	004241434	171
05/13/80	FE	OTHER	E-6	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281603	194
05/13/80	FE	OTHER	A-7	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281604	171
05/13/80	FE	OTHER	C-7	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281605	171
05/13/80	FE	OTHER	E-7	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281606	171
05/13/80	FE	OTHER	A-8	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281607	171
05/13/80	FE	OTHER	C-8	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281609	171
05/13/80	FE	OTHER	D-11	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281705	171
05/13/80	FE	OTHER	D-10	LEAKS DURING PT 16.2	STOPPED LEAK	2	004291707	171
05/16/80	ETDC	INVERTER		AC LINE DOES NOT CLOSE PROPERLY	MADE NEW CATCH FOR DOOR	2	005081303	131
05/16/80	CH	HT	CKT20D PNL8	REPAIR HEAT TAPE	HT REPAIRED	2	005141458	80
05/16/80	CH	HT	CKT20D PNL9	REPAIR HEAT TAPE	HT REPAIRED	2	005141459	80
05/11/80	ETL	BREAKER	24H8	FM BREAKER	TESTED BREAKER	2	004111436	277
05/11/80	ETL	BREAKER	24J3	FM BREAKER	TEST BKR	2	004111437	252
05/11/80	ETL	BREAKER	24J4	FM BREAKER	TESTED BKR	2	004111438	240
05/11/80	CS	INSTR	LT-CS-200A	REPAIR LT-CS-200A	LT-CS-200A REPAIRED	2	004211125	591
05/11/80	BD	VALVE	TV-BD-200D	INTERMEDIATE LIGHTS	ADJUSTED LIMIT SWITCHES	2	005071403	89
05/11/80	BD	VALVE	TV-BD-200B	INTERMEDIATE LIGHTS	ADJUSTED LIMIT SWITCHES	2	005071405	44
05/11/80	CS	INSTR	LS-200B	REPAIR OR REPLACE LEVEL SWITCH	REPLACED SWITCH	2	906251010	3735

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

NETSERVDT	SYS	COMP	MARKNO	SUMMARY	WRTYRF	U	MR	TOTDWNMT
05/20/80	SW	MOV	MOV*SW*204A	DISCONNECT RECONNECT FOR MECHS	MOTOR OPERATING SAT	2	003052330	1111
05/20/80	BS	OTHER	B11	ELEC PENETRATION	STOPPED LEAK	2	003191341	208
05/20/80	EPL	BREAKER	2443	1M BREAKER	COMPLETE	2	004111431	850
05/20/80	EPL	BREAKER	2448	1M BREAKER	TESTED SAT	2	004111441	173
05/20/80	EPL	BREAKER	2449	1M BREAKER	TESTED SAT	2	004111442	821
05/20/80	CC	INSTR	T/C*CC*204C	FLEXIBLE CONDUIT	TESTED SAT	2	004111229	34
05/20/80	CH	VALVE	ICV*2111	ICV*2111 IS NOT WIRED	FOUND ICV WIRED UP	2	004211443	76
05/20/80	CH	VALVE	SOV*2258	SOV*2258 IS NOT WIRED	FOUND SOV WIRED UP	2	004211456	76
05/20/80	ETDC	BATT	2B	GROUND ON BJS	NO GROUND ON BJS	2	004241146	17
05/20/80	FE	OTHER	E*5	E*5 LEAKS AT CABLE VAULT	STOPPED LEAK	2	004241433	184
05/20/80	FE	OTHER	B*6	B*6 LEAKS AT CABLE VAULT	STOPPED LEAK	2	004241435	327
05/20/80	RS	INSTR	LT*RS*251A	FLEXIBLE CONDUIT BROKEN	COMPLETE	2	004271527	105
05/20/80	RS	INSTR	RTD*251B	FLEXIBLE CONDUIT BROKEN	COMPLETE	2	004271528	105
05/20/80	FE	OTHER	D*6	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281602	327
05/20/80	FE	OTHER	B*8	LEAKS DURING PT 16.2	STOPPED LEAK	2	004281608	327
05/20/80	FE	OTHER	E*18	LEAKS DURING PT 16.2	STOPPED LEAK	2	004291702	184
05/20/80	FE	OTHER	U*8	LEAKS DURING PT 16.2	STOPPED LEAK	2	004291703	184
05/20/80	FE	OTHER	D*10	LEAKS DURING PT 16.2	STOPPED LEAK	2	004291704	184
05/20/80	FE	OTHER	C*10	LEAKS DURING PT 16.2	STOPPED LEAK	2	004291706	184
05/20/80	FE	OTHER	A*9	LEAKS DURING PT 16.2	STOPPED LEAK	2	004291709	184
05/20/80	FE	OTHER	E*11	LEAKS DURING PT 16.2	STOPPED LEAK	2	004301006	184
05/20/80	FE	OTHER	E*10	LEAKS DURING PT 16.2	STOPPED LEAK	2	004301033	184
05/20/80	FE	OTHER	D*9	LEAKS DURING PT 16.2	STOPPED LEAK	2	004301034	184
05/20/80	FE	OTHER	E*8	LEAKS DURING PT 16.2	STOPPED LEAK	2	004301035	184
05/20/80	BD	VALVE	TV*BD*200A	WILL NOT CLOSE	ADJUSTED LIMIT SWITCHES	2	005071404	131
05/20/80	RC	VALVE	ICV*2455C	RESET LIMITS FOR VALVE	ADJUSTED LIMITS	2	005170000	90
05/20/80	RC	VALVE	ICV*2456	RESET LIMITS FOR VALVE	ADJUSTED LIMITS	2	005170001	90
05/20/80	RC	VALVE	ICV*2551B	INTERMEDIATE INDICATION WHEN VLV IS	ADJUSTED LIMITS	2	005171035	27
05/20/80	RC	MOV	MOV*RC*2535	MOV IMS	IMS COMPLETE	2	901251414	1815
05/20/80	RC	MOV	MOV*RC*2536	MOV IMS	IMS COMPLETE	2	901251415	1815
05/20/80	RC	MOV	MOV*RC*2585	MOV IMS	IMS COMPLETE	2	901251416	1671
05/20/80	RC	MOV	MOV*RC*2590	MOV IMS	IMS COMPLETE	2	901251417	1671
05/20/80	RC	MOV	MOV*RC*2591	MOV IMS	IMS COMPLETE	2	901251418	1815
05/20/80	RC	MOV	MOV*RC*2586	MOV IMS	IMS COMPLETE	2	901251419	1815
05/20/80	RC	MOV	MOV*RC*2592	MOV IMS	IMS COMPLETE	2	901251420	1815
05/20/80	RC	MOV	MOV*RC*2593	MOV IMS	IMS COMPLETE	2	901251421	1815
05/20/80	RC	MOV	MOV*RC*2587	MOV IMS	IMS COMPLETE	2	901251422	1671
05/20/80	RC	MOV	MOV*RC*2588	MOV IMS	IMS COMPLETE	2	901251423	1671
05/20/80	RC	MOV	MOV*RC*2589	MOV IMS	IMS COMPLETE	2	901251424	1671
05/20/80	RC	MOV	MOV*RC*2595	MOV IMS	IMS COMPLETE	2	903040858	1815
05/20/80	RC	MOV	MOV*2593	DISCONNECT FOR MECH	MOTOR RETURNED TO SERVICE	2	903040859	1815
05/20/80	RC	MOV	MOV*2590	DISCONNECT FOR MECHS	MOTOR RETURNED TO SERVICE	2	903040859	1815
05/22/80	CC	VALVE	TV*CC*209A	WILL NOT OPEN FROM CONTROL ROOM	ADJUSTED LIMIT SWITCHES	2	005180940	72
05/23/80	SW	VALVE	MOV*SW*205D	DISCONNECT + RECONNECT FOR MECH	MOTOR RETURNED TO SERVICE	2	002221041	2192
05/23/80	SW	MOV	MOV*SW*205A	DISCONNECT RECONNECT FOR MECHS	MOTOR RETURNED TO SERVICE	2	003052331	1893
05/23/80	SW	MOV	MOV*SW*204C	DISCONNECT RECONNECT FOR MECHS	MOTOR RETURNED TO SERVICE	2	005190840	55
05/23/80	SI	MOV	MOV*SI*2860B	MOV IMS	COMPLETED IMS AND TESTED MOV	2	901251503	10971
05/23/80	RC	PUMP MTR	2*RC*1*1C	PUMP MOTOR IMS	DISCONNECTED MOTOR	2	901261303	11136

DEPT=ELEC

3 JUN 80 * 8:36 AM PAGE 6

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

RETSEAVDT	SYS	COMP	MARKNO	SUMMARY	WKTFRF	J	MR	TOTDWNTH
05/21/80	CL	OTHER	BFD-805	REPLACE DAMAGED RELAY	COMPLETED ON DC 8006	2	002131115	2506
05/21/80	IA	COMP MTR	2-IA-C-1	TRIP ON OVERLOAD	MECHANICS CORRECTED PROBLEM	2	004030855	1306
05/21/80	VS	FAN/MTR	2-VS-F-1C	REPAIR OR REPLACE ENDBELL ON MTR	TESTED SAT	2	004161115	990
05/21/80	RC	INSR	2-RC-P-1B	T/C NOT WIRED ON 2-RC-P-1B	OUT OF LIMIT CORRECTION	2	005070810	146
05/21/80	CH	HT	FWLBCKT2F	LOW AMPS	REPLACE HEAT TAPE	2	005211732	80
05/28/80	RC	PMP MTR	2-RC-P-1B	PMP MOTOR FMS	DISCONNECTED MOTOR	2	901261302	11498
05/28/80	SI	PMP MTR	2-SI-P-1D	DISCONNECT + RECONNECT FOR MECH	MOTOR HOOKED UP	2	912071401	4142
05/29/80	SS	VALVE	TV-SS-200B	WILL NOT SHUT FROM CONTROL RM	ADJUSTED LIMIT SWITCHES	2	005152312	26
05/30/80	ETL	BREAKER	24J5	FM BREAKER	COMPLETED FMS	2	004111439	528

DEPT TOTAL

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

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

RETSEVDT	SYS	COMP	MARKNO	SUMMARY	WKPFRF	J	MR	TOTLWFTM
05/01/80	GW	UNIT HTR	1-GW-HV-1	SYSTEM CONTROL ERRATIC	TIGHTENED AIR LEAKS ON POSITIONER	1	004290558	35
05/01/80	SS	INSTR	CC-SS-100-5	LEAKS WATER	TIGHTENED PACKING GLAND	1	004290610	16
05/01/80	CS	INSTR	LT-CS-100A	TRANSMITTER DRIFTED	REPLACE+CALIBRATED TRANSMITTER	1	004291120	31
05/03/80	SI	INSTR	L1-1-922	10 PERCENT BETWEEN TWO LEV TRANS	CALIBRATED TRANSMITTER	1	005010135	39
05/05/80	RC	INSTR		FAILED RTD C LOOP	REPLACED LOW LEVEL AMPLIFIER	1	005042301	3
05/06/80	CH	INSTR		C CHARGING TAMP	ADJUSTED SWITCH	1	002230115	121
05/06/80	CH	PIPING		HOLE IN LINE	REPLACED TRANSMITTER UNION	1	005031635	7
05/06/80	RC	INSTR	FI-I-014	NO RESPONSE FROM FLOW INDICATION	SHUT EQUALIZING VALVE	1	005047335	21
05/07/80	RM	MONITOR	R1-SW-116	CHECK CALIBRATION	CALIBRATED DETECTOR CLEANED SAMPLE	1	005050800	50
05/09/80	CH	INSTR	F1-122A	CALIBRATE INDICATES LOW	CHECKED ZERO FILLED TRANSMITTER	1	005070921	9
05/13/80	IA	INSTR		RESET PRESSURE SWITCH	RESET PRESSURE SWITCHES	1	005101535	58
DEPT TOTAL								408

Maintenance of Safety Related Systems During
Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

DETT=INST

3 JUN 80 * 8:36 AM PAGE 1

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

RETSERVD	SYS	COMP	MARKNO	SUMMARY	WKTFRP	J	HR	TOTLWTRM
05/01/80	RF	OTHER		PRODUCING UNSTABLE READINGS.	REPLACED POTENTIOMETER	2	004291513	22
05/05/80	RC	INSTR		INTALL NEW RTD'S	INSTALLED NEW RTDS	2	003281356	115
05/05/80	CS	INSTR		PUMP 2-CS-P-2A DISCH PRESSURE	INSTALLED NEW CAL GAUGE	2	004190875	98
05/01/80	CC	INSTR	PI-CC-221B	PI-CC-221B GAGE STJCK	REPLACED GAUGE	2	004112117	21
05/01/80	CC	INSTR	PI-CC-100	INSTRUMENT TUBING BENT	REPLACED BENT TUBING WITH NEW TUBING	2	004111639	151
05/01/80	CH	INSTR	PI-2151	GAUGE NOT WORKING	INSTALLED NEW GAUGE	2	005022305	21
05/13/80	NI	OTHER	NR-45	RED PEN HANGS UP	ADJUSTED SCREWS OF CHECK SAT	2	005080901	14
05/15/80	RC	PIPING		UNION AT FT2436 LEAKS	TIGHTENED LOOSE FITTING	2	004161440	64
05/15/80	NI	MISC	NR-45	RED PEN DOES NOT OPERATE	PEN OPERATING PROPERLY	2	005042235	40
05/15/80	VS	FAN/BLWR	2-VS-F-6C	CRD COOLER FAN DAMPER	REPLACED AIR SET	2	005051602	64
05/15/80	RC	INSTR	T-2-413	PERMISSIVE STATUS LIGHT LOOP A	CONDITION CLEARED	2	005080902	130
05/18/80	CS	INSTR	LT-CS-201	CALIBRATE LT-CS-201	CALIBRATED XMTR 4/12/80	2	005031425	62
05/20/80	AM	INSTR	RM-RMS-163	GLASS ON METER	REPLACE METER	2	005150101	106
05/20/80	RC	INSTR	LI-410	NEEDLE BENT STICKS ON COVER	REPLACED INDICATOR	2	005111520	21
05/22/80	RF	OTHER		CORRECT FT 8.2	FT COMPLETED	2	005170840	51
05/23/80	NI	MISC	NR-45	REPLACE PENS WITH FELT TIP	REPLACED PENS	2	005041900	426
05/23/80	RS	INSTR	PI-RS-201A	CALIBRATE	INSTALLED NEW CALIBRATE GAUGE	2	005151230	55
05/23/80	RS	INSTR	PI-RS-201B	CALIBRATE	INSTALLED NEW CALIBRATE GAUGE	2	005151231	55
05/23/80	CH	VALVE	HCV-2186	DOES NOT STROKE	BLEW OUT WATER INSTALLED NEW RESTRIC	2	005200105	81
05/21/80	NI	SOURCE	NI-32	ERRATIC INDICATION ON NI-32	DETECTOR OK ERRATIC DUE TO WELDING	2	004280630	681
05/21/80	CS	INSTR	LT-CS-200	CALIBRATE	CALIBRATED TRANSMITTER	2	005031433	299

DETT TOTAL

2655

MAY, 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

MAY, 1980

<u>NUMBER</u>	<u>UNIT</u>	<u>TITLE</u>	<u>DEVIATION</u>
OP4.4	2	Full Length RCC Drive Shaft Tool	Steps 4.1 through 4.1.17 Not Applicable Step 4.35 - Did not use Use 1000# scale

The above procedure was deviated on April 25, 1980 and reviewed by the Station Nuclear Safety and Operating Committee May 16, 1980.