

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 82-10

OCTOBER, 1982

APPROVED BY: _____

Jewell

STATION MANAGER

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OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 08 NOV 82
COMPLETED BY VIVIAN JONES
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	100182 TO 103182
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	847.5 NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A
10. REASONS FOR RESTRICTIONS, IF ANY	N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	745.0	7296.0	86424.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	361.0	6449.2	52483.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3731.5
14. HOURS GENERATOR ON-LINE	351.5	6368.4	51443.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	741532.8	15066119.3	119399385.7
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	243505.0	4742120.0	38561333.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	230100.0	4492802.0	36570038.0
19. UNIT SERVICE FACTOR	47.2 %	87.3 %	59.5 %
20. UNIT AVAILABILITY FACTOR	47.2 %	87.3 %	63.9 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	39.9 %	79.5 %	54.6 %
22. UNIT CAPACITY FACTOR (USING DCR NET)	39.2 %	78.1 %	53.7 %
23. UNIT FORCED OUTAGE RATE	13.8 %	4.1 %	23.3 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	2-1-83	74 DAYS-REFUELING	10YR.

25. IF SHUT DOWN AT END OF REPORT PERIOD,

ESTIMATE DATE OF STARTUP

26. UNITS IN TEST STATUS

(PRIOR TO COMMERCIAL OPERATION)

FORECAST ACHIEVED

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

OPERATING DATA REPORT

DOCKET NO. 50-281
 DATE 08 NOV 82
 COMPLETED BY VIVIAN JONES
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	100182 TO 103182
3. LICENSED THERMAL POWER (MWT)	2441
4. NAMEPLATE RATING (GROSS MWE)	847.5
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	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 N/A
 (NET MWE)

10. REASONS FOR RESTRICTIONS, IF ANY N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	745.0	7296.0	83304.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	731.7	6727.8	51588.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	729.2	6654.4	50766.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1747538.5	15341007.6	118638293.5
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	575340.0	4950865.0	38628044.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	545597.0	4680612.0	36609327.0
19. UNIT SERVICE FACTOR	97.9 %	91.2 %	60.9 %
20. UNIT AVAILABILITY FACTOR	97.9 %	91.2 %	60.9 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	94.5 %	82.8 %	56.7 %
22. UNIT CAPACITY FACTOR (USING DER NET)	92.9 %	81.4 %	55.8 %
23. UNIT FORCED OUTAGE RATE	2.1 %	2.8 %	15.6 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	FALL MAINTENANCE- 12-3-82 8 DAYS		

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

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

FORECAST ACHIEVED

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Oct. 82

DOCKET NO. 50-280
 UNIT NAME Surry 1
 DATE 11-5-82
 COMPLETED BY Vivian Jones
 TELEPHONE (804) 357-3184x477

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
82-22	10-01-82	S	337.4	A	3				While reducing power for a scheduled maintenance outage the reactor tripped on a steam flow feed flow mismatch coincident with low level in "C" S/G. The low level was a result of feed control system problems and was corrected prior to startup.
82-23	10-16-82	F	17.2	A	3				A faulty power mismatch card in the circuitry for excore detector N-42 resulted in a turbine runback, "B" feed flow control valve failed to respond quickly enough and the reactor tripped on a high level in "B" S/G. The reactor safety injected due to a low Tave following the trip in coincidence with the high steam line

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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

⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Oct. 82

DOCKET NO. 50-280
 UNIT NAME Surry 1
 DATE 11-5-82
 COMPLETED BY Vivian Jones
 TELEPHONE (804) 357-3184x477

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
82-24	10-17-82	F	0.0	A	4	82-111/03L-0			flow channels which had been placed in trip for instrument dept. maintenance. N-42 was repaired, "B" feed flow control valve was exercised prior to startup.
82-25	10-23-82	F	38.9	A	3	82-116/03L-0			Dropped rod P-8 resulting in turbine runback. Loose electrical connection was determined to be cause and was repaired. Rod was retrieved and unit was returned to full power. "B" feed flow control valve failed closed during power reduction resulting in a "B" S/G low level trip. The reactor had been in the process of being shutdown for repair of 1-DG-14 when it tripped. 1-DG-14 was repaired

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 B-Maintenance or Test
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 E-Operator Training & License Examination
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 G-Operational Error (Explain)
 H-Other (Explain)

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 Method:
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⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Oct. 82

DOCKET NO. 50-280
UNIT NAME Surry 1
DATE 11-5-82
COMPLETED BY Vivian Jones
TELEPHONE 357-3184x477

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
									and the feed back arm on the positioner for "B" feed flow control valve was repaired prior to startup.

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Reason:
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B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

⁵
Exhibit I - Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Oct. 82

DOCKET NO. 50-281
 UNIT NAME Surry 2
 DATE 11-5-82
 COMPLETED BY Vivian Jones
 TELEPHONE 357-3184x477

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
82-36	10-10-82	F	15.8	A	3	82-063/03L-0 82-064/03L-0			The inverter supplying VBIII failed. This resulted in a turbine runback, reactor trip and safety injection. The inverter was repaired prior to unit startup.
82-37	10-20-82	S	0.0	H	1				Reduced power to load follow on orders of the system operator.
82-38	10-31-82	F	0.0	G	1	82-059/03L-0			Reduced power in anticipation of shutdown required by Technical Specifications due to dilution of boron concentration in boric acid storage tank and boron injection tank. The cause was a primary grade water valve not fully closed following a sluice batching evolution. The valve was

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 Reason:
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 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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

⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Oct. 82

DOCKET NO. 50-281
 UNIT NAME Surry 2
 DATE 11-5-82
 COMPLETED BY Vivian Jones
 TELEPHONE 357-3184x477

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
									closed fully and the boron concentration increased prior to cessation of power decrease and return to full power.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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⁵
 Exhibit I - Same Source

(9/77)

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: Oct. 1982

<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: OCT. 1982

<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 11-1-82
COMPLETED BY VIVIAN H. JONES

AVERAGE DAILY UNIT POWER LEVEL

MONTH: OCTOBER 82

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	672.5	17	176.1
2	0.0	18	488.7
3	0.0	19	740.8
4	0.0	20	737.6
5	0.0	21	740.1
6	0.0	22	729.8
7	0.0	23	68.8
8	0.0	24	25.6
9	0.0	25	526.4
10	0.0	26	737.6
11	0.0	27	739.8
12	0.0	28	744.4
13	0.0	29	745.0
14	0.0	30	743.9
15	0.0	31	773.2
16	197.5		

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 11-1-82
COMPLETED BY VIVIAN H. JONES

AVERAGE DAILY UNIT POWER LEVEL

MONTH: OCTOBER 82

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	753.4	17	747.5
2	749.1	18	750.8
3	751.8	19	756.4
4	752.4	20	741.0
5	752.6	21	759.0
6	754.1	22	759.5
7	754.0	23	691.9
8	750.7	24	755.1
9	752.2	25	760.4
10	294.9	26	761.3
11	590.0	27	759.5
12	752.9	28	761.5
13	752.5	29	762.4
14	753.6	30	759.8
15	753.0	31	727.8
16	749.1		

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

OCTOBER, 1982

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 ONE

October 1 This reporting period begins with the unit at 100% power.

2000 - Commenced decreasing power at 150 MWe per hour in preparation for shutdown for maintenance outage.

2400 - The reactor tripped on a steam flow - feed flow mismatch coincident with low level in "C" S/G signal due to feed control system problems.

October 2 0136 - Commenced cooldown of the reactor coolant system (RCS).

0445 - The RCS temperature and pressure are less than 350°F/450 PSIG.

1105 - The reactor is at cold shutdown (RCS temperature < 200°F).

October 3 0805 - The RCS has been taken solid for cooldown prior to depressurization and draindown.

October 6 0821 - Secured "A" reactor coolant pump (RCP) and commenced depressurizing RCS.

October 7 0040 - RCS level at mid nozzle. Secured draining system.

October 13 1303 - Fill and vent of the RCS is complete.

1830 - RCS temperature and pressure at 190°F/340 PSIG.

2200 - RCS chemistry in specification. Commenced drawing a pressurizer bubble.

October 14 2125 - Containment hogging secured with containment partial pressure at 9.0 PSIA.

2200 - RCS temperature exceeded 200°F.

October 15 0430 - RCS temperature exceeded 350°F.

1147 - Completed 100 PSIG over pressure walkdown of RCS and reduced pressure to 2235 PSIG.

1903 - The reactor is critical.

October 16 0124 - The generator is on the line.

0259 - Reactor power at 35% and secondary chemistry in specification. Commenced power increase at 3% per hour.

1418 - A faulty power mismatch card in excore detector N-42 circuitry caused a spurious dropped rod turbine runback. The "B" S/G main feed regulation valve did not respond in time to prevent a turbine trip/reactor trip on "B" S/G high level.

1420 - The reactor safety injected on a high steam line flow coincident with low Tave signal. The instrument department had channel III on all three main steam lines in trip by procedure for replacement of a faulty transmitter on the B main steam line. The cooldown to less than 543° F following the reactor trip caused the SI logic matrix to be completed.

October 17 0553 - The reactor was critical.

0730 - The generator was on the line.

0841 - Decreased rate of power increase to 3% per hour.

1832 - Dropped rod P-8 causing a turbine runback.

1836 - The plant is stable at 215 MWe/35% power.

2110 - Reset the NI (excore detector) rod stop to 81% and the high flux (overpower) trip to 85% power due to a greater than 2% flux tilt.

October 18 0213 - Retrieved rod P-8 IAW AP 1-4. The cause of the dropped rod was determined to be a loose connection where the cable attached to the control rod drive mechanism.

0227 - Started increasing power at 3% per hour.

1153 - NI rod stop and over power trip reset to normal operating values.

2200 - The unit reached 100% power.

October 19 1215 - RCS leakrate greater than 1 GPM unidentified. Started 4 hour clock for shutdown.

1315 - Determined 1-DG-14 source of RCS leakage and it was safe to continue operation.

1452 - Unidentified leakage <1 GPM. Stopped 4 hour clock for shutdown.

SUMMARY OF OPERATING EXPERIENCE
PAGE 3

October 20 0654 - "A" Containment vacuum pump declared inoperable.

0743 - "B" Containment vacuum pump declared inoperable.
Started 6 hour clock for shutdown.

1022 - "B" Containment vacuum pump returned to
service. Stopped 6 hour clock for shutdown.

October 22 1125 - RCS leakrate >1 GPM unidentified. Started 4
hour clock for shutdown.

1520 - Temporary repairs completed on 1-DG-14.
Unidentified RCS leakrate <1 GPM. Stopped 4 hour
clock for shutdown.

1740 - RCS leakrate >1 GPM unidentified. Started 4
hour clock for shutdown.

2107 - RCS leakrate >1 GPM identified. The
source of leakage is 1-DG-14, a diaphragm valve
in the valve packing gland leakoff collection line.

2138 - Started reducing power at 140 MWe per hour to
reduce dose levels in loop rooms for personnel looking
for source of packing gland leakoff.

October 23 0222 - Stopped power decrease at 35%.

0525 - Started unit shutdown to hot shutdown.

0557 - "B" main feed flow control valve failed closed.
The cause was later discovered to be a problem with the
feedback arm on the positioner.

0558 - The reactor tripped on steam flow feed flow
mismatch coincident with a low level in "B" S/G.

October 24 0508 - 1-DG-14 has been repaired.

1720 - The reactor was pulled critical and went critical
below the low insertion limit. The controls were
immediately driven in to shut the reactor down.

1824 - After having added a total of 200 gallons of
boric acid to the RCS, the reactor was taken critical
at well above the low insertion limit.

2054 - The generator was placed on the line.

2158 - Reduced rate of power increase to 3% per hour.

SUMMARY OF OPERATING EXPERIENCES

PAGE 4

October 25 2130 - The unit reached 100% power.

October 31 This reporting period ends with the unit
at 100% power.

UNIT TWO

October 1 This reporting period begins with the unit at
100% power.

October 10 0923 - Turbine ranback on a spurious dropped rod
signal due to a loss of Vital Bus - III (VBIII).
The loss of VBIII was caused by an electrical fault
in its associated inverter.

0925 - The reactor tripped on an overpower ΔT (OPAT)
trip trip signal. The Δ flux was depressed due to
rod insertion following the turbine runback. This
caused a reduction in the OPAT trip setpoint and the
subsequent trip. The unit safety injected on a
high steam line flow coincident with a low Tave
signal. The loss of VBIII caused one spurious high
steam flow signal on each main steam line and the
cooldown following the reactor trip provided the
low Tave signal.

1553 - The inverter for VBIII has been repaired and
returned to service.

2142 - The reactor was taken critical.

October 11 0113 - The generator was placed on the line.

0939 - The unit reached 100% power.

October 20 0112 - Started reducing power to load follow on
orders of the system operator.

0232 - Stopped reducing power at 79%/650 MWe on
orders of the system operator.

0313 - Started increasing power on orders of the
system operator.

0345 - Stopped increasing power at 87%/700 MWe on
orders of the system operator.

0423 - Started increasing power on orders of the
system operator.

0518 - The unit reached 100% power.

SUMMARY OF OPERATING EXPERIENCES

PAGE 5

October 31

1425 - The primary grade water supply valve to the "D" boric acid transfer pump suction was found cracked open. The valve had not been closed completely following the previous sluice batching evolution. The valve was immediately closed fully.

1459 - The chemist reported the boron concentration in "C" Boric Acid Storage Tank was less than the Technical Specification minimum. Started 6 hour clock for shutdown.

1510 - The chemist reported the boron concentration in the boron injection tank was less than the Technical Specification minimum.

1734 - Started power reduction at 150 MWe per hour in anticipation of shutdown.

1948 - Stopped power reduction at 50% power. The boron concentration in "C" BAST and the BIT have been verified at greater than the Technical Specification minimum. Commenced increasing power.

2215 - Stopped increasing power at 76%/635 MWe on orders of the system operator.

2349 - Started increasing power on orders of the system operator. This reporting period ends with the unit at 83% power and increasing.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

OCTOBER, 1982

The Nuclear Regulatory Commission, on October 5, 1982, issued Amendment Nos. 80 and 81 to the Operating License for Surry Power Station Unit Nos. 1 and 2 respectively. The changes have been designated as Technical Specification change No. 90.

These amendments revise the Technical Specifications related to the degraded voltage protection system. These Technical Specifications require the operability of voltage sensing channels, establish setpoints for degraded voltage and loss of power, and require periodic testing and calibration.

Accordingly, the paragraph 3.B of the Operating License for Unit 1 and 2, respectively, is amended as follows:

(Unit 1) "B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 80, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

(Unit 2) "B. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 81, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

FACILITY CHANGES REQUIRING
NRC APPROVAL

OCTOBER, 1982

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

OCTOBER, 1982

	<u>Unit</u>
DC 81-05	1 & 2

Fuel Building Television Monitoring System

This design change installed two closed circuit television cameras in the Fuel Building. This system would enable the shift supervisor in the control room to monitor activity in the Fuel Building.

SUMMARY OF SAFETY ANALYSIS

Installation of a closed circuit television system does not affect the operation of any safety related equipment.

DC 81-46	2
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RWST Narrow Range Level Monitoring System

This design change replaced the existing non-safety related RWST level switches with a non-safety related RWST Narrow Range Level Monitoring System. The new system monitors the span just below the dome bend line and the bottom of the overflow line. This change will aid the operators in maintaining the RWST within Technical Specifications.

SUMMARY OF SAFETY ANALYSIS

This modification does not affect system operations or the operation of the RWST. The margin of safety is increased by alerting the operator to a potential violation of the Technical Specifications.

DC 82-17	1
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Auxiliary Feedwater Motor Driven Pump Bypass Indication

This design change modified the Auxiliary Feedwater Motor Driven Pump Circuitry so that the green indicating light located on the benchboard in the Main Control Room is on when the pumps are locked out. Also, the Auxiliary Feedwater Pump overload trip annunciator was modified to include a pump lockout condition.

SUMMARY OF SAFETY ANALYSIS

The implementation of the Auxiliary Feedwater Motor Driven Pump bypass indication package does not affect the operation of any safety-related equipment. This modification will provide the operator with indication and alarm when the pumps are locked-out or taken out of service in the pull-to-lock position.

Unit

DC 82-28 Short Term Loose Parts Monitoring System 1

This design change provides on an interim basis, the ability to monitor the primary system and secondary side of the steam generators for the presence of loose circulating parts and other foreign objects. The system is designed to provide an interim solution only and as such, is intended to be replaced by a permanent system providing more extensive monitoring coverage and read-out capability.

SUMMARY OF SAFETY ANALYSIS

The modification installed does not affect the integrity, design, safety analysis, or function of the components affected.

DC 80-74 Manual Lineup of Condenser Air Ejector Vent 1 & 2

This design change provides an additional path for the air ejector vent to discharge through Ventilation Vent #2. This meets the requirements of NUREG-0578 Section 2.1.8.b since Ventilation Vent #2 will have a high range effluent monitor installed under Design Change DC 80-64A.

SUMMARY OF SAFETY ANALYSIS

This modification provides greater flexibility in system operation under high radiation or loss of normal effluent monitoring. The condenser air ejector discharge line modification allows the operator more latitude in the operation of this system.

TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

OCTOBER, 1982

None during this reporting period.

TESTS AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

<u>Special Test No.</u>	<u>Title</u>	<u>Unit</u>	<u>Date Completed</u>
ST-147	Feed Reg. Valve Closure on Low TAVG	1	10-14-82
ST-149	Hydrostatic Test of Suction Lines to Containment Spray System	1	10-19-82
ST-146	Condensate Polisher Performance	2	10-21-82
ST-148	Safety Analysis	1	10-21-82
ST-52	RCS Flow Measurement Data	1	10-28-82

OTHER CHANGES, TESTS AND EXPERIMENTS

OCTOBER, 1982 :

None during this reporting period.

SURRY POWER STATION

CHEMISTRY REPORT

CORRECTED COPY

Sept. 19 82

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	3.85 ⁰	2.49 ⁰	2.98 ⁰	(A) 5.01 ⁻¹	1.78 ⁻¹	2.67 ⁻¹
Suspended Solids, ppm	0.1	0.1	0.1	0.1	0.1	0.1
Gross Tritium, $\mu\text{Ci/ml}$	2.92 ⁻¹	8.64 ⁻²	1.58 ⁻¹	2.01 ⁻¹	1.71 ⁻¹	1.90 ⁻¹
Iodine-131, $\mu\text{Ci/ml}$	2.10 ⁻¹	6.76 ⁻²	9.73 ⁻²	4.91 ⁻³	9.83 ⁻⁴	2.25 ⁻³
I-131/I-133	1.8218	.5867	.9837	1.6538	.3442	.8066
Hydrogen, cc/kg	32.2	(B) 24.6	28.6	39.9	25.6	32.0
Lithium, ppm (C)	1.20	.67	.87	1.45	.97	1.22
Boron-10, ppm +	57.04	41.55	49.03	117.40	103.10	109.90
Oxygen-16, ppm	.000	.000	.000	.000	.000	.000
Chloride, ppm	<.05	<.05	<.05	<.05	<.05	<.05
pH @ 25°C	7.17	6.90	7.05	6.85	6.62	6.72

+ Boron-10 = Total Boron x 0.196

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

Phosphate	(D)	Boron	772. (D)
Sulfate	(D)	Chromate	0.0 (D)
50% NaOH	(D)	Chlorine	(D)

REMARKS: (A) High activity level due to secured let-down flow(for 40 hrs) prior to this sample. (B) Unable to sample hot leg for 10 days prior to this sample; recommended increase in VCT pressure. (C) Five separate lithium additions unit 1; two separate additions unit 2. (D) The levels of these chemicals should create no adverse environmental impact.

SURRY POWER STATION

CHEMISTRY REPORT

October 19 82

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	9.11 ^o (A)	8.02 ⁻¹ (A)	1.07 ^o (A)	4.20 ⁻¹	1.61 ⁻¹	2.67 ⁻¹
Suspended Solids, ppm	0.1	0.1	0.1	0.1	0.1	0.1
Gross Tritium, $\mu\text{Ci/ml}$	1.89 ⁻¹	1.57 ⁻²	8.59 ⁻²	3.00 ⁻¹	1.33 ⁻¹	2.37 ⁻¹
Iodine-131, $\mu\text{Ci/ml}$	6.83 ^o (A)	2.44 ⁻² (A)	9.06 ⁻¹ (A)	1.65 ⁻¹	8.80 ⁻⁴	1.38 ⁻²
I-131/I-133	.9256	.2845	.4630	2.3439	.2704	.7288
Hydrogen, cc/kg	33.7	2.4 ^(B)	13.0 ^(B)	44.4	22.5	31.0
Lithium, ppm	1.07	.25 ^(C)	.83 ^(C)	1.50 ^(D)	.67	1.23
Boron-10, ppm +	302.62	35.48	147.98	195.02	92.32	106.82
Oxygen-16, ppm	3.5 ^(B)	.000	.290 ^(B)	.000	.000	.000
Chloride, ppm	<.05	<.05	<.05	<.05	<.05	<.05
pH @ 25°C	7.24	6.24	6.64	6.86	6.50	6.80

+ Boron-10 = Total Boron x 0.196

NON-RADIOACTIVE CHEMICAL (E)

RELEASES, POUNDS

T.S. 4.13.A.6

Phosphate	-	Boron	868
Sulfate	-	Chromate	0.0
50% NaOH	-	Chlorine	-0-

REMARKS: (A) Values reflect suspected failed fuel (B) Values reflect transient conditions due to #1 unit startups & shutdowns-added 3½ gals N₂H₄ to #1RX to establish chemistry O₂(C) Values reflect transient conditions-1215g LiOH added to #1RCS @ 1555 on 10-19-82; 990g LiOH added to #1RCS @ 1350 on 10-26-82 (D)#2 RCS cation BED placed in service for lithium removal @ 2200 on 10-6-82 out of service 10-7-82 @ 0355 - added 810g LiOH @ 2320 on 10-11-82- 10-1-82 # unit #1 Rx

SURRY POWER STATION

CHEMISTRY REPORT

OCTOBER 1982

T.S.6.6.3.d

Remarks(Cont.): rampdown for outage #1 Rx trip 10-1-82 @ 2400
unit #1 Rx critical @ 1903 on 10-15-82 on-line 10-16-82 @0124- #1 Rx trip @ 1420
10-16-82(safety injection) 2nd safety injection 1515 on 10-16-82- #1 Rx critical @
0553 on 10-17-82-on line @ 0730- 10-17-82- runback to 35% due to a dropped rod @ 1832
10-17-82-commenced ramp up @ 3%/hr @ 0227 10-18-82 - #1 Rx ramping down due to leaks
@ 2157 10-22-82 #1 Rx trip from ~ 30% Pwr @ 0558 10-23-82, #1 Rx critical @ 1824 10-24-82-
on line @ 2054 10-24-82 - 10-10-82 @ 0925 #2 Rx trip-lost vital bus & blew feed pump
suction flange - Safety Injection - 10-10-82 @ #2 Rx critical - 10-20-82 @0112 #2 Rx
Pwr. reduction to 79% - load follow - 10-31-82 @ 1734 started ramping #2 Rx back
@ 150 Mgwatts per hour - due to boric acid conc. problems to 50% Pwr.(E) The levels
of these chemicals should create no adverse environmental impact.

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

OCTOBER, 1982

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

October 1, 1982	-	Exceeded 15 ⁰ F ΔT across station *
18	-	Exceeded 15 ⁰ F ΔT across station *
19	-	Exceeded 15 ⁰ F ΔT across station *
20	-	Exceeded 15 ⁰ F ΔT across Station *
21	-	Exceeded 15 ⁰ F ΔT across Station *
25	-	Exceeded 15 ⁰ F ΔT across Station *
26	-	Exceeded 17.5 ⁰ F ΔT across Station *
27	-	Exceeded 15 ⁰ F ΔT across Station *
28	-	Exceeded 15 ⁰ F ΔT across Station *
29	-	Exceeded 15 ⁰ F ΔT across Station *
30	-	Exceeded 15 ⁰ F ΔT across Station *
31	-	Exceeded 15 ⁰ F ΔT across Station *

*Indicates dates where station ΔT was less than or equal to 15.0⁰F across station for some time during the day.

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

The temperature change at the station discharge exceeded 3⁰F per hour on October 10, 1982 due to a Unit 2 reactor trip. The temperature change at the station discharge exceeded 3⁰F per hour on October 16, 1982 due to a Unit 1 reactor trip. These events were allowable in accordance with Technical Specification 4.14.B.1. There were no reported instances of adverse environmental impact.

FUEL HANDLING

UNIT 1 - OCTOBER, 1982

DATE SHIPPED/RECEIVED	NO. OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL
10-21-82	12	LMOANI/3.6%	<2.5 MR/HR
		LMOAMB/3.6%	<2.5 MR/HR
		LMOAN4/3.6%	<2.5 MR/HR
		LMOAMA/3.6%	<2.5 MR/HR
		LMOAMT/3.6%	<2.5 MR/HR
		LMOAN5/3.6%	<2.5 MR/HR
		LMOAMX/3.6%	<2.5 MR/HR
		LMOANS/3.6%	<2.5 MR/HR
		LMOAN3/3.6%	<2.5 MR/HR
		LMOAMR/3.6%	<2.5 MR/HR
		LMOAMW/3.6%	<2.5 MR/HR
		LMOAMD/3.6%	<2.5 MR/HR
10-28-82	12	LMOAM9/3.6%	<2.5 MR/HR
		LMOAM7/3.6%	<2.5 MR/HR
		LMOAM2/3.6%	<2.5 MR/HR
		LMOAMU/3.6%	<2.5 MR/HR
		LMOAMV/3.6%	<2.5 MR/HR
		LMOAN2/3.6%	<2.5 MR/HR
		LMOAMY/3.6%	<2.5 MR/HR
		LMOAMC/3.6%	<2.5 MR/HR
		LMOAM6/3.6%	<2.5 MR/HR
		LMOAN6/3.6%	<2.5 MR/HR
		LMOANO/3.6%	<2.5 MR/HR
		LMOAM8/3.6%	<2.5 MR/HR

FUEL HANDLING

UNIT 2 - OCTOBER, 1982

[illegible]

PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE FSAR

OCTOBER, 1982

None during this reporting period.

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

OCTOBER, 1982

None during this reporting period.

INSERVICE INSPECTION

OCTOBER, 1982

None during this reporting period.

REPORTABLE OCCURRENCES PERTAINING TO
ANY OUTAGE OR POWER REDUCTIONS

OCTOBER, 1982

See Unit Shutdowns and Power Reductions noted on pages 4 and 6.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

MECHANICAL MAINTENANCE

UNIT 1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTSSEVDT	SYS	COMP	MARK#0	SUMMARY	WKPFRF	U	MR	TOTIWNTH
10/04/82	FW	FAN	1-GW-P-1A	FAN OUTPUT LOW CHECK + REPAIR	VOID NO PROBLEM AT THIS TIME	1	205121612	0
10/06/82	MS	VALVE	1-MS-80	BODY TO BONNET LEAK FURMANITE	REPLACED VALVE 1MS80 AND 3 3/4 PIPK	1	204161120	0
10/06/82	MS	VALVE	1-MS-339	BODY TO BONNET LEAK	PATCHED LEAK IN BODY	1	205071101	0
10/06/82	MS	VALVE	1-MS-342	REPLACE VALVE	REPLACED VALVE	1	206171153	0
10/06/82	MS	VALVE	1-MS-83	BODY TO BONNET LEAK	REPLACED VALVE 1MS83	1	207010541	0
10/06/82	MS	VALVE	1-MS-151	BODY TO BONNET LEAK	REPLACED BONNET GASKET	1	207010543	0
10/06/82	MS	VALVE	1-MS-338	REPLACE VALVE	VALVE DETERIORATED BEYOND REPAIR REF	1	209271138	0
10/07/82	MS	VALVE	1-MS-115	REPAIR TO ORIGINAL HAS BEEN FURMANIT	REMOVED BONNET CLEANED INSPECTED	1	207021410	0
10/07/82	MS	VALVE	1-MS-112	REPAIR TO ORIG FURMANITED BODY TO BO	RENEWED BONNET GASKET AND REPACKED	1	207221647	0
10/07/82	MS	VALVE	1-MS-152	REPAIR FURMANITED BODY TO BONNET	REMOVED BONNET CLEANED VALVE INSPECT	1	207231630	0
10/07/82	RC	PIPING	1-RC-36	INSTALL FLANGE	VOID DONE ON MRS1210051201	1	210051808	0
10/07/82	RC	PIPING	1-RC-104	INSTALL FLANGE	VOID DONE ON MR S1210051201	1	210051809	0
10/07/82	SS	VALVE	HCV-SS-102B	VALVE FROZEN	VOID VALVE TAGOUT	1	210071022	0
10/08/82	MS	VALVE	1-MS-166	VALVE HAS BODY TO BONNET LEAK	REPLACED GASKET	1	204230315	0
10/08/82	CS	FLANGE	1-CS-F3-3	REPAIR FLANGE LEAK	REPLACED BOTH GASKETS	1	204261121	0
10/08/82	MS	VALVE	1-TV-MS-101A	REPACK RIGHTSIDE OF VALVE	REPACKED VALVE	1	207071421	0
10/08/82	BD	VALVE	1-BD-26	VALVE LEAKS BY SEAT AND HAS PIPECAP	REPLACED VALVE 1BD26 AND 6IN PIPK	1	207221412	0
10/08/82	BD	VALVE	1-BD-7	VALVE LEAKS BY SEAT	LAPPED SEATING SURFACES	1	207221415	0
10/08/82	BD	VALVE	1-BD-38	HANDWHEEL HAS BEEN TWISTED OFF OF VA	REPLACED VALVE 1-BD-38	1	207290715	0
10/08/82	MS	VALVE	TV-MS-101B	REPACK VALVE	REPACKED VALVE	1	207311737	0
10/08/82	MS	VALVE	PCV-MS-102A	OVERHAUL LEAKS THROUGH	CUT VALVE OUT REPAIR	1	208050900	0
10/08/82	MS	VALVE	PCV-MS-102B	OVERHAUL LEAKS THROUGH	CUT VALVE OUT REPAIR	1	208050901	0
10/08/82	MS	VALVE	1-MS-341	REPLACE VALVE	VALVE AND PIPE ON EACH SIDE	1	209271132	0
10/08/82	MS	VALVE	1-MS-7	REPLACE VALVE	VALVE AND NIPPLE DETERIORATED BEYOND	1	209271134	0
10/08/82	SI	VALVE	1-SI-94	BODY TO BONNET LEAK	VOID AS PER G RANK	1	210041516	0
10/08/82	BR	COMPRESS	1-BR-C-1A	SUCTION AND DISC FLANGE LEAKS	REROUTED PIPE TO CLEAR BOLTS	1	210050545	0
10/08/82	SW	VALVE	1-SW-1383	VALVE WILL NOT OPERATE	CLEANED UP GEAR BOX ON VALVE	1	210072114	0
10/08/82	SW	VALVE	2-SW-1301	VALVE WILL NOT OPERATE	CLEANED UP GEAR BOX ON VALVE	1	210072115	0
10/08/82	CH	PUMP	2-CH-P-1A	ZINC PLUG BAD ON SW SIDE	REPLACED ZINC	1	210072144	0
10/09/82	CH	PUMP	1-CH-P-1B	PUMP LEAKS	VOID WORK TO BE COMPE ON MR120924161	1	210072330	0
10/10/82	MS	VALVE	SOV-MS-102A	VALVE LEAKS	VOID WKPFRF ON MR1208050900	1	202270545	76
10/10/82	MS	VALVE	SOV-MS-102B	VALVE LEAKS	VOID WORK COMP ON MR 1208050901	1	202270546	76
10/10/82	MS	VALVE	N/A	REPLACE DRAIN VALVE	FREED FROZEN VALVE STEM CLEANED PACK	1	209271235	0
10/11/82	CH	VALVE	1-CH-101	REPLACE BOLTING	VOID WK COMPLETED ON MR 1012021304	1	010231708	0
10/11/82	CH	VALVE	1-CH-183	REPLACE BOLTING	VOID COMP ON MR101021826	1	01021307	0
10/11/82	CH	HX	1-CH-E-4	REPAIR TUBE LEAK	VOID NO PROBLEM AT THIS TIME	1	101091230	0
10/11/82	CH	ORIFICE	FE-1-122	REPLACE WORN FLOW ORIFICE	VOID BYPASS AROUND FCV 1122 BAD	1	202010922	0
10/11/82	FW	PIPING	MKS-10171	HANGER SPRING IS BROKEN	VOID REF MR 1202172207 FOR REPAIR	1	202180555	0
10/11/82	CH	INSTR		SIGHTGLASSES NEED CLEANING	VOID NO PROBLEM	1	204081011	0
10/11/82	FW	VALVE	1-FW-9	REPAIR VALVE	REPLACED VALVE	1	204161506	0
10/11/82	FW	PIPING	1-FW-71	REPAIR OR REPLACE VALVE	REPLACED VALVE	1	205040809	0
10/11/82	RS	VALVE	1-RS-17	LEAK ON TOP FLANGE	TIGHTENED FLANGE	1	205251225	0
10/11/82	RS	VALVE	1-RS-23	VALVE HAS NO PIPE CAP	INSTALLED PIPE CAP	1	205251232	0
10/11/82	BD	VALVE	FE-BD-102A	REPAIR TO ORIGINAL FURMANITED BODY T	VOID VALVE TO BE REPLACED	1	206161900	0
10/11/82	CH	VALVE	RV-1382A	BENCH TEST	VOID NO INDICATED LEAK	1	206290411	0
10/11/82	MS	VALVE	1-MS-81	REPAIR TO ORIG FURMANITED BODY TO BO	REPLACED VALVE	1	207021531	0
10/11/82	CH	MOV	MOV-CH-1275C	PACKING LEAK	REPACKED WITH 7 RINGS GARLOCK 98	1	207030509	0

UNIT1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RKTSKRVDT	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	MR	TOTLWNTM
10/11/82	CH	MOV	MOV-CH-1275A	PACKING LEAK	NEEDS PACKING ADDED OR RXPACK	1	207030545	0
10/11/82	MS	VALVE	1-MS-74	BONNET HAS A HOLE IN IT	REPLACED VALVE CLEAN AND PIPE	1	207080631	0
10/11/82	MS	VALVE	1-MS-145	REPAIR TO ORIG FURMANITED BODY TO RO	RENEWED BONNET AND PACK VALVE	1	207221652	0
10/11/82	MS	VALVE	1-MS-113	REPAIR FURMANITED PACKING GLAND	RENEWED BONNET GASKET AND REPACED	1	207231626	0
10/11/82	BD	PIPING	2-WGCB-110	REPAIR LEAK ON 1-BD-K-1C HAS BEEN PU	TORQUED STUDS TO 150 FT LBS	1	208061021	0
10/11/82	RC	VALVE	1-RC-89	PACKING LEAK	REPACED	1	210041513	0
10/11/82	RC	TANK	N/A	LEAKS AT FLANGE	REPLACED RUPTURE DISC	1	210041514	0
10/11/82	SI	VALVE	1-SI-85	BODY TO BONNET LEAK	REPLACED COVER GASKET	1	210041517	0
10/11/82	RC	VALVE	1-RC-55	PACKING LEAK	ADJUSTED PACKING	1	210041518	0
10/11/82	RC	VALVE	1-RC-58	PACKING LEAKS	ADJUSTED PACKING	1	210041519	0
10/11/82	RC	VALVE	1-RC-18	PACKING LEAK	ADJUSTED PACKING	1	210041533	0
10/11/82	SI	VALVE	1-SI-236	BODY TO BONNET LEAK	VOID VALVE CANNOT BE LEAKING	1	210041630	0
10/11/82	FW	VALVE	1-FW-67	VALVE LEAKS	VALVE HAS SEAL WELDED	1	210061030	0
10/11/82	VS	LOUVERS	N/A	LOUVERS MECHANICALLY BINDING	CLEANED AND LUBRICATED	1	210061137	0
10/11/82	BH	VALVE	MOV-1700	PACKING LEAK	REPACED VALVE	1	210061302	0
10/11/82	SI	VALVE	1-SI-339	PACKING GLAND LEAK	ADJUSTED PACKING	1	210061401	0
10/11/82	SI	VALVE	1-SI-336	PACKING GLAND LEAK	ADJUSTED PACKING	1	210061404	0
10/11/82	RC	VALVE	1-RC-68	PACKING LEAK	ADJUSTED PACKING 6 FLAT	1	210061442	0
10/11/82	RC	VALVE	HCV-1556H	PACKING LEAK	ADJUSTED PACKING 6 FLAT	1	210061443	0
10/11/82	RC	VALVE	1-RC-49	PACKING LEAK	REPACED VALVE	1	210061444	0
10/11/82	RC	ALVE	1-RC-537	PACKING LEAK	ADJ-STED PACKING	1	210061445	0
10/11/82	RC	VALVE	HCV-1557A	PACKING LEAKS	REPACED VALVE	1	210061446	0
10/11/82	SI	VALVE	1-SI-124	PACKING LEAK	ADJUSTED PACKING	1	210061450	0
10/11/82	RC	VALVE	HCV-1556A	PACKING LEAK	ADJUSTED PACKING	1	210061459	0
10/11/82	SI	VALVE	1-SI-338	PACKING LEAK	ADJUSTED PACKING	1	210061511	0
10/11/82	RC	VALVE	PCV-1455A	VALVE LEAK THROUGH	REPLACED STEM BELLOW	1	210070904	0
10/11/82	SI	PIPING	10-SI-107-153	FLANGE LEAK	TIGHTENED BOLTING	1	210072221	0
10/11/82	CH	VALVE	PCV-1122	OVERHAUL VALVE LEAKS THRU	VOID PROB IN THE BYPASS VLV	1	210081603	0
10/11/82	RC	VALVE	1-RC-77	PACKING LEAK	REPACED VALVE	1	210081700	0
10/11/82	SI	VALVE	1-SI-341	PACKING LEAK	ADJUSTED PACKING	1	210081718	0
10/11/82	CS	FLANGE	RO-CS-102A	FLANGE LEAKS	VOID KON ON 1204261125	1	210091244	0
10/11/82	CS	FLANGE	1-CS-P-1B	REMOVE BLANK	VOID WORK TO BE COMP ON MR1210041542	1	210091245	0
10/11/82	CS	FLANGE	1-CS-P-1A	REMOVE BLANK	VOID WORK TO BE COMP ON MR1210050301	1	210091246	0
10/11/82	CS	PUMP	1-CS-P-1B	REMOVE BLANK FLANGE	VOID WORK TO BE COMPLETED ON MR 5121	1	210110948	0
10/11/82	CS	PUMP	1-CS-P-1A	REMOVE BLANK FLANGE	VOID WORK TO BE COMPL ON MR 51210050	1	210110949	0
10/12/82	SI	VALVE	1-SI-91	REPLACE STUDS	REPLACED BOLTING AS PER DC 79-05	1	109300839	0
10/12/82	MS	VALVE	1-MS-157	FURMANITED	RENEWED BONNET GASKET AND REPACED	1	203101537	0
10/12/82	MS	VALVE	1-MS-143	REPAIR VALVE	RENEWED BONNET GASKET AND REPACED	1	206150835	0
10/12/82	MS	VALVE	1-MS-343	REPLACE VALVE	REPLACED VALVE ELBOW AND PIPE NIPPLE	1	206171206	0
10/12/82	CH	VALVE	1-CH-163	PACKING LEAK	REPACED VALVE	1	207030457	0
10/12/82	BD	VALVE	1-BD-5	VALVE LEAKS BY SEAT	LAPPED SEATING SURFACES RENEWED BOLT	1	207221406	0
10/12/82	BD	VALVE	1-BD-17	VALVE LEAKS BY SEAT	LAPPED SEATING SURFACES RENEWED	1	207221408	0
10/12/82	SS	PIPE	3/8-SS-171-I-C	SWAGE LOC FITTING LEAK UPSTREAM TV-S	TIGHTENED FITTINGS	1	209041039	0
10/12/82	CH	MOV	MOV-1370	BODY TO BONNET FLANGE LEAK	REPLACED GASKET	1	209041041	0
10/12/82	MS	VALVE	1-MS-346	REPLACE VALVE AND ELBOW	VALVE PIPE NIPPLES AND ELBOWS DETERI	1	209271136	0
10/12/82	MS	VALVE	N/A	REPLACE VALVE	VALVE AND NIPPLE DETERIORATED BEYOND	1	209271236	0
10/12/82	SI	VALVE	1-SI-79	BODY TO BONNET LEAK	LIFTED VALVE COVER AND	1	210041031	0

UNIT1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTS/REVDT	SYS	COMP	MARKNO	SUMMARY	WKPREF	U	MR	TC/IN/NTM
10/12/82	VS	LOUVERS	N/A	RECONNECT ACTUATION AFTER REPAIR	EVERYTHING IS OK	1	210061138	0
10/12/82	SI	VALVE	HCV-1850C	BODY TO BONNET LEAK	REPLACED BODY TO BONNET	1	210061447	0
10/12/82	RH	VALVE	RH-29	PACKING LEAK	ADJUSTED PACKING	1	210061611	0
10/12/82	RH	VALVE	RH-26	PACKING LEAK	ADJUSTED PACKING	1	210061612	0
10/12/82	RH	VALVE	RH-27	PACKING LEAK	ADJUSTED PACKING	1	210061614	0
10/12/82	SS	VALVE	HCV-SS-102C	VALVE FROZEN	CLEANED TIGHTENED AND	1	210061635	0
10/12/82	BD	VALVE	FE-BD-102A	REPLACE FLOW ORIFICE ISOL VLV	VALVES DETERIORATED BEYOND REPAIR	1	210071547	0
10/12/82	BD	VALVES	FE-BD-102B	REPLACE FLOW ORIFICE ISOL VALVES	VALVES DETERIORATED BEYOND REPAIR	1	210071549	0
10/12/82	BD	VALVE	FE-BD-102C	REPLACE FLOW ORIFICE ISOL VLV	VALVES DETERIORATED BEYOND REPAIR	1	210071151	0
10/12/82	RC	VALVE	RC-1591	PACKING LEAK	ADJUSTED PACKING	1	210081347	0
10/12/82	MS	VALVE	N/A	BODY TO BONNET LEAK	CLEANED OUT FURMANITE	1	210091337	0
10/12/82	MS	VALVE	1-MS-10	STEM PACKING LEAK	REPACKED VALVE	1	210091338	0
10/12/82	RC	RV	PCV-1455C	VALVE STROKES ONLY ~ 1/4	ADJUSTED STROKE ON VALVE	1	210110326	0
10/12/82	CH	HT	FT-1113	REMOVE FT-1113	UNPLUGGED LINE	1	210112209	0
10/13/82	CS	PUMP	1-CS-P-1A	MKCH SEAL	REPAIRED IN + OUT BOARD SEALS	1	201131025	0
10/13/82	CH	VALVE	1-CH-119	BROKEN VALVE STEM	VOID NO PROB WITH VALVE	1	201170330	0
10/13/82	MS	VALVE	TV-MS-109	REPAIR BODY TO BONNET LEAK	RENEWED BONNET GASKET AND REPACKED	1	204281302	0
10/13/82	CH	PIPING	3-CH-252-1502	INSTALL SHIM	NO WORK REQUIRED	1	207061255	0
10/13/82	CH	PIPING	3-CH-252-1502	INSTALL SHIM	NO WORK REQUIRED	1	207061257	0
10/13/82	CH	PIPING	3-CH-252-1502	INSTALL SHIM	NO WORK REQUIRED	1	207061259	0
10/13/82	CS	PIPING	2 1/2"-CS-95-	INSTALL SHIM PER ATTACHED SKETCH	ADD SHIM	1	207061305	0
10/13/82	FW	PIPING	6-WAPD-150-601	D/C 79-S32A INSTALL MODIFICATION	INSTALLED HGR STARP	1	208110752	0
10/13/82	GW	PIPING	6-GW-20-154	D/C 79-S32A INSTALL SHIM	NO WORK REQUIRED	1	208131012	0
10/13/82	FW	PIPE	FT-FW-100A	FLANGE LEAK ON FLOW XMITTER	TIGHTEN UP THE ISOLATION	1	209021530	0
10/13/82	RC	VALVE	PCV-1455C	BLOWN DIAPHRAM	REPLACED GAGE GASKETS	1	210021200	0
10/13/82	MS	VALVE	NRV-MS-101A	OPEN AND INSPECT	REBUILT BONNET STEM	1	210030822	0
10/13/82	RC	VALVE	PCV-1456	OPEN AND INSPECT	REPLACED PLUG AND GAGE	1	210071111	0
10/13/82	RC	VALVE	MOV-1535	OVERHAUL	INSPECTED AND CLEANED	1	210071112	0
10/13/82	MS	MANWAY	N/A	REPAIR LEAK ON MANWAY	VOID WORK ON 1210130924	1	210130920	0
10/14/82	CH	PIPING		MOV 1350 LINK PLUGGED	CLEANED INTERNALS + LAPPED SEAT	1	202040811	0
10/14/82	SI	VALVE	1-SI-175	PACKING LEAK	REPACKED VALVE	1	202071834	0
10/14/82	CH	VALVE	1-CH-150	VALVE LEAKS BY	CLEANED AND RECAPPED	1	207030617	0
10/14/82	CH	VALVE	1-CH-153	VALVE LEAKS BY THRU PIPE CAP	CLEANED AND RECAPPED	1	207030630	0
10/14/82	CH	VALVE	1-CH-154	OVERHAUL VALVE	INSTALLED CAP	1	207201217	0
10/14/82	SY	PERS HAT	1	INSTALL OPERATING INSTRUCTIONS	FABRICATED AND INSTALLED OPER INSTRU	1	207221001	0
10/14/82	CS	VALVE	MOV-CS-102A	OVERHAUL LEAKS THROUGH	CUT SEAT + DISC GOOD	1	208111232	0
10/14/82	HSS	SNUBBERS	PT 30A-2	VISUAL INSPECTION	PERFORMED GF SAT	1	209230950	0
10/14/82	CH	TRANSMIT	FT-1110	REPLACE DETERIORATED FLANGE	REPLACED FLANGE AND	1	209240917	0
10/14/82	CH	PUMP	1-CH-P-1A	OIL LEAK AT UNION	REPLACED UNION	1	209261900	0
10/14/82	CS	PUMP	1-CS-P-1B	INSTALL A BLANK FLANGE	INSTALLED AND REMOVED	1	210041542	0
10/14/82	CS	PUMP	1-CS-P-1A	PLACE BLANK FIG ON DISCH FLANGE PMP	INSTALLED AND REMOVED	1	210050301	0
10/14/82	FW	PUMP	1-FW-P-3A	FW LEAK UPSTREAM OF LUBE OIL COOLER	REPAIRED LEAK ON 3/4 PIPE	1	210050528	0
10/14/82	BS	STRUCTUR	N/A	REMOVE CONCRETE SLAB	COMPLETED	1	210061155	0
10/14/82	CS	MOV	MOV-CS-102A	VALVE LEAKS BY	INSPECTED VALVE SEATS	1	210100800	0
10/14/82	CH	VALVE	HCV-1310A	ADJUST PACKING	ADJUSTED PACKING	1	210111301	0
10/14/82	CH	VALVE	HCV-1311	ADJ PACKING	ADJUSTED PACKING	1	210111305	0
10/14/82	MS	VALVE	HCV-MS-104	REINSTALL VALVE CORRECTLY	VALVE INSTALLED INCORRECTLY DUE TO M	1	210120823	0

UNIT1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RATSAVDT	SYS	COMP	MARKNO	SUMMARY	WKPREF	U	MR	TOTLWNTM
10/14/82	FW	VALVE	MOV-FW-151F	VALVE WILL NOT GO FULLY CLOSED	DISCONNECTED RECONNECTED	1	210130601	0
10/14/82	BD	VALVE	1-BD-11	PACKING LEAK	ADJUSTED PACKING GLAND	1	210131232	0
10/15/82	RC	VALVE	MOV-1536	MOV 1536 FAILED TO RECLOCK	VOID DC 81-105	1	206181644	0
10/15/82	CH	VALVE	PCV-CH-1117	DIAPHRAM BLOWN	NO PROBLEM AT THIS TIME	1	208020825	0
10/15/82	MS	VALVE	1-MS-118	REMOVE BONNET FAB	DISASSEMBLED VALVE	1	210080755	0
10/15/82	FW	PIPING	FW-FW-100A	FLANGE LEAK AT FLOW ELEMENT	INSTALLED 2 NEW FLAX	1	210120841	0
10/15/82	CH	LINE	N/A	DISCH OF A AUX OIL PMP LEAKS	VOID WORKED ON HAND WRITTEN MR	1	210121427	0
10/15/82	FW	VALVE	MOV-151C	PACKING LEAK	REPACKED VALVE	1	210130858	0
10/15/82	RC	VENT	N/A	INSTALL BLANK FLANGES	REMOVED VENT RIGS AND INSTALLED BLAN	1	210131921	0
10/15/82	MS	VALVE	MS-86	REPACK VALVE	ADD 4 INGS AND REMOVED 1 RING GARIOC	1	210140910	0
10/16/82	MS	VALVE	1-MS-176	REPLACE CHECK VALVE	REPLACED NUTS AND WASHER	1	202230440	0
10/16/82	MS	VALVE	1-MS-178	REPLACE CHECK VALVE	REPLACED NUTS WASHERS	1	202230441	0
10/16/82	MS	VALVE	1-MS-182	REPLACE CHECK VALVE	REPLACED NUTS WASHERS	1	202230442	0
10/16/82	RH	ELEMENT	1-RHR-FE-1605	LEAKING AT FLANGE	TIGHTENED FLANGE BOLTS	1	210061555	0
10/17/82	BD	VALVE	TV-BD-100F	REPAIR TO ORIGINAL VALVE HAS BEEN FU	RENEWED SEAT RING PLUG STEM CAGE	1	207021510	0
10/17/82	SI	VALVE	1-SI-243	BODY TO BONNET LEAK	RENEWED COVER GASKET	1	210061440	0
10/17/82	SI	VALVE	1-SI-242	VALVE MUST BE OPEN FOR PT 18.11	RENEWED COVER GASKET	1	210111650	0
10/18/82	FW	VALVE	1-FW-43	CHECK VALVE HAS BODY TO BONNET LEAK	WELDED UP CRACK IN WELD	1	210061031	0
10/18/82	MS	PUMP	1-FW-T2	BLANK FLANGE REQUIRED	MANUFACTURED BLANK FLANGE	1	210061140	0
10/18/82	SI	VALVE	1-SI-241	BODY TO BONNET LEAK	RENEWED COVER GASKET TORQUED	1	210081658	0
10/18/82	VS	CHILLER	1-VS-K-4A	BAD ZINC PLUG	REPLACED ZINCS	1	210082320	0
10/18/82	RC	STEAM GR	1-RC-K-1C	UPPER MANWAY LEAKS	MADE WELD REPAIR TO	1	210130924	0
10/18/82	HSS	SHUBBER	1-HSP-HSS-20	ADJUST PIPE BRACKET	ADJUSTED SHUBBER TO	1	210131812	0
10/18/82	FW	MOV	MOV-FW-151F	MOV WILL NOT CLOSE	REMACHINED SEAT RING	1	210140101	0
10/18/82	BD	VALVE	1-BD-24	ADJUST PACKING TO STOP LEAK	ADJUSTED PACKING	1	210141320	0
10/18/82	RC	VALVE	1-RC-99	ADJUST PACKING	WIPED SEALING PACKS	1	210141400	0
10/18/82	BS	MANWAY	N/A	EMERGENCY MANWAY IN LEAKS	WIPED SEALING PACKS	1	210141402	0
10/18/82	SW	PIPE	1-SW-P-104	PIPE HAS HAIR LINE CRACK	PATCHED UP CRACK IN PIPE	1	210141541	0
10/18/82	MS	HANGER	1-MS-104	SPRING HANGER MISSING	HOOKED UP SPRING HANGER	1	210150100	0
10/18/82	HSS	SHUBBERS	1-HSS-HSP-24A	REPAIR AS NECESSARY	FLACED UNION IN LINE	1	210150222	0
10/18/82	RC	VALVE	N/A	VALVE LEAKS	ADJUSTED PACKING	1	210151230	0
10/18/82	FW	VALVE	MOV-FW-151F	VALVE HAS SLIGHT PACKING LEAK	ADJUSTED PACKING	1	210151232	0
10/18/82	FW	VALVE	MOV-FW-151F	VALVE HAS PACKING LEAK	ADJUSTED PACKING	1	210151234	0
10/18/82	RC	VALVE	1-RC-11	VALVE HAS SLIGHT PACKING LEAK	ADJUSTED PACKING	1	210151235	0
10/18/82	FW	VALVE	FCV-1488	FRV STEM ADJUSTMENT IS NECESSARY]	ADJUST VALVE STEM	1	210160345	0
10/18/82	CH	VALVE	1-CH-91	BODY TO BONNET LEAK	TIGHTENED BONNET NUTS	1	210161800	0
10/24/82	GW	VALVE	1-GW-80	LEAKS THRU	CLEANED AND RESEATED	1	210200440	0
10/25/82	MS	VALVE	1-MS-151	PACKING LEAK	FURMANITED PACKING LEAK	1	210150400	0
10/25/82	CV	PUMP	1-CV-P-14	LOW FLOW 2SCFM	REPLACED PUMP WITH NEW ONE	1	210171201	0
10/25/82	MS	VALVE	1-MS-106	FURMANITE PACKING GLAND	FURMANITED PACKING GLAND	1	210180951	0
10/25/82	CV	PUMP	1-CV-P-1B	NO FLOW OUT OF PUMP	REPLACED BELT	1	210200654	0
10/25/82	CH	PIPING	MOV-CH-1350	REPLACE TEMPORARY LAGGING	REINSULATED PIPE ** VALVES	1	210200814	0
10/25/82	SD	VALVE	RO-SV-105A	GASKET LEAK	VOID NO LEAK	1	210210350	0
10/25/82	GW	PIPING	FI-SW-100A	FLOW METER BROKE	REPLACE SIGHT GLASS	1	210220122	0
10/25/82	IA	COUPLING	TV-MS-101B-R	IA TO TV-MS-101B HAS A COUPLING LEAK	TIGHTENED UNION	1	210230643	0
10/25/82	RC	VALVE	MOV-1536	PACKING LEAK	ADJUSTED PACKING	1	210231130	0
10/25/82	RC	VALVE	MOV-1535	PACKING LEAK	ADJUSTED PACKING	1	210231135	0

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

MECHANICAL MAINTENANCE

EXPT-MECH

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UNIT2-11/02/82

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

DATE/REVDT	SYS	COMP	MARKNO	SUMMARY	WKPREF	U	MR	TOTLWNTM
10/11/82	MS	VALVE	TV-MS-201A	CHECK + REPLACE RUPTURE DISK	REMOVED PLATE CHECKED	2	210101912	0
10/11/82	MS	RUPTURE	2-MS-201B	CHECK + REPLACE	REMOVED PLATE CHECKED	2	210101919	0
10/11/82	MS	RUPTURE	TV-MS-201C	CHECK + REPLACE AS NECESSARY	REMOVED PLATE CHECKED	2	210101930	0
DEPT TOTAL								0

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

UNIT1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RTSRVDT	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	MR	TOTLWNTM
10/04/82	RC	BREAKER	1J9PL3	BREAKER FOR PRESSURIZER	REPAIRED SCREWS ON BUS SAT	1	204150955	0
10/06/82	MS	INSTR	TG	ENGAGED GREEN INDICATING LIGHT SOCKET	INSTALL LIMIT SW TEST SAT	1	205101055	0
10/06/82	SS	VALVE	HCV-SS-101A	RED LITE ON CONSTANTLY	ADJUSTED LIMITS AND CHECKED SAT	1	205201102	0
10/06/82	SS	VALVE	HCV-SS-101C	GREEN ON CONSTANTLY NO RED IND	ADJUSTED LIMITS AND TESTED SAT	1	205201107	0
10/06/82	RC	PUMP	1-RC-P-1C	INSPECT COOLERS ON RCP MOTORS	COVERS REMOVED	1	208091454	0
10/06/82	RC	PUMP	1-RC-P-1B	INSPECT COOLERS ON RCP MOTORS	COVERS REMOVED	1	208091455	0
10/06/82	RC	PUMP	1-RC-P-1A	INSPECT COOLERS ON RCP MOTORS	COVERS REMOVED	1	208091456	0
10/06/82	RC	PMP MTR	1-RP-P-1C	16 OZ OIL SAMPLE BEARINGS	TOOK OIL SAMPLE	1	208091457	0
10/06/82	RC	PMP MTR	1-RC-P-1B	16 OZ OIL SAMPLE BEARINGS	TOOK OIL SAMPLE	1	208091458	0
10/06/82	RC	PMP MTR	1-RC-P-1A	16 OZ OIL SAMPLE BEARINGS	TOOK OIL SAMPLE	1	208091459	0
10/07/82	SI	MOV	MOV-1867C	LIMIT TORQUE SWITCH NEEDS PROPER MOU	REPLACED TORQUE SWITCH	1	204171653	0
10/07/82	SS	VALVE	HCV-SS-102B	CHECK WIRING	WORK PERFORMED ON MR 1205201104	1	205201101	0
10/07/82	APDC	WIRING	N/A	VERIFY WIRING	WIRE NUMBERS VERIFIED	1	209090722	0
10/08/82	RC	TANK		DRAIN OIL FROM A RCP	DRAINED OIL COMPLETE	1	202212243	0
10/08/82	SS	VALVE	TV-SS-103A	VALVE WILL NOT CLOSE	VALVE OPERATED SAT NO MAINT DONE	1	202220903	0
10/08/82	SI	MANUAL	HCV-1850C	HCV 1850C FAILS TO GIVE FULL OPEN	ADJUSTED LIMITS AND CYCLED VALVE SAT	1	203151455	0
10/08/82	CH	VALVE	HCV-1201	CHECK LIMIT SWITCH	ADJUSTED LIMITS AND CYCLED VALVE ST	1	207141427	0
10/08/82	DG	LXV SWIT	LS-PG-107B	PUMPS DO NOT STOP IN AUTO	LXEL SWITCH OPERATES	1	209231855	0
10/08/82	CS	MOV	1-CS-MOV-102B	DISC AND RECON FOR MECH	DISC AND RECON + CYCLED	1	209290850	0
10/08/82	CS	MOV	1-CS-MOV-102A	DISC AND RECON FOR MECH	DISCONN RECONN + CYCLED	1	209290851	0
10/08/82	NI	PENK	13B	INSPECT PENETRATION	PENK AND PLUGS AND CABLE ON 13B CHC	1	210081045	0
10/09/82	SS	SOV	CKT 17 PANKL 1	CKT 17 TRIPPED	CKT 17 NOW SAT UNDER MR 1205201105	1	202250735	0
10/09/82	SI	VALVE	HCV-1852C	SHOWS INTERMEDIATE POSITION WHEN VAL	REPLACED ADJUSTED LIMIT SWITCH	1	206030501	0
10/09/82	CH	COIL	PCV-1113A	REPLACE UNCRATIFIED COIL + CAT I COI	REPLACED UNCRATIFIED	1	209221150	0
10/09/82	MS	SOV	TV-MS-109	DISC FOR MECH	DISCONNECTED + RECONNECTED	1	210051500	0
10/09/82	RC	SOV	PCV-1455C	DISC AND RECON FOR MECH	UNBOLTED TWO LIMIT SWITCHES FROM VAL	1	210080958	0
10/09/82	RC	SOV	PCV-1455A	DISC AND RECON FOR MECH	UNBOLTED TRANSDUCER	1	210081000	0
10/09/82	CS	MOV	MOV-CS-100B	WILL NOT CLOSE	NO PROBLEM WITH VALVE	1	210081330	0
10/09/82	CS	MOV	CS-102A	ADJUST TORQUE SWITCH SETTING	ADJUSTED TORQUE SWITCH SAT	1	210090859	0
10/09/82	RC	SWITCH	PCV-1455C	ADJUST LIMITS	ADJUSTED LIMITS AND	1	210091600	0
10/10/82	RH	PUMP	1-RH-P-1B	PUMP HAS NO LUB OIL	FOUND NO OIL LEAK ON MOTOR	1	202230907	0
10/10/82	FP	ALARM	N/A	INVALID ALARM NO.1 CONT CABLE AREA	WORKED WITH S+W AND	1	209031846	0
10/10/82	MS	RAYCHRM	PT-1-474	SPLICE EXISTING RAYCHRM TRANS LOOP	CUT OUT EXISTING SPLICE	1	210071800	0
10/10/82	RC	SOV	PCV-1456	DISC AND RECON FOR MECH	PULLED SNAPLOCK SWITCHES	1	210080959	0
10/11/82	SI	VALVE	HCV-1350C	LIMIT SWITCH NEED ADJ	VOID NO VALVE	1	202260527	0
10/11/82	RS	INSTR	1-RS-E-1A-D	WATER IN SHALL ALARM WILL NOT CLEAR	WORK PERFORMED ON MR	1	210091940	0
10/11/82	RC	RELAY	PC-403BX2	REPLACE RELAY	REPLACED RELAY AND TESTED	1	210100911	0
10/11/82	CS	VALVE	1-MOV-CS-102A	RELOC DISCONNECT MOV	RECONNECTED MOV AND	1	210101126	0
10/12/82	RC	MOV	RC-1590	ADJUST SNAPLOCK	ADJUST LIMITS TEST SAT	1	203261200	0
10/12/82	CH	MOTOR	MOV-1350	DISC AND RECON FOR MECH	DISCONNECTED AND	1	208191015	0
10/12/82	VS	COMPRESS	1-VS-E-4A	INVESTIGATE 1-VS-E-4A SMOKING	WORK PERFORMED BY B Z	1	210090256	0
10/12/82	CH	HT	PT-1113	REMOVE HEAT TRACING	REMOVED AND REPLACED	1	210112208	0
10/12/82	CV	MOV	MOV-CS-102A	SET LIMIT CLOSER	ADJUST SW COMPLETE	1	210121050	0
10/13/82	RPL	BREAKER	14J9	REPAIR/REPLACE BREAKER 14J9	REPLACED 14J9 BREAKER SAT	1	204270715	0
10/13/82	CS	VALVE	MOV-CS-103A	ADJUST AGASTAT RELAY	ADJUSTED AGASTAT TESTED SAT	1	205180245	0
10/13/82	CS	VALVE	MOV-CS-103C	ADJUST AGASTAT RELAY	ADJUSTED AGASTAT AND TESTED	1	205180246	0
10/13/82	CS	VALVE	MOV-CS-103B	ADJUST AGASTAT RELAY TO OPERATE AT 2	ADJUSTED AGASTAT AND	1	208111200	0

UNIT1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RATSRVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTIWNTH
10/13/82	CS	VALVE	MOV-CS-103D	ADJUST AGASTAT RELAY TO OPERATE AT 2	ADJUSTED AGASTAT AND	1	208111204	0
10/13/82	CH	HT	PNL8 CKT 7A	LOW AMPS REPLACE HEAT TAPE	REPLACED HEAT TRACK	1	210110701	0
10/13/82	SS	VALVE	TV-SS-100A	VALVE WONT STAY SHUT	REPLACED SWITCH	1	210112042	0
10/13/82	SS	SOV	TV-SS-106A	CYCLE VALVE AND VERIFY OPERATION	CONTROL ROOM OPERATOR	1	210130756	0
10/13/82	SS	SOV	TV-SS-106B	CYCLE VALVE AND VERIFY OPERATION	CONTROL ROOM OPERATOR	1	210130757	0
10/14/82	EPL	SWITCHGR	1A1-2	GROUND INDICATED	GROUND INDICATION IS	1	209151220	0
10/14/82	RC	MOV	MOV-1536	DISC AND RECON	OPERATED MOV AND VERI-	1	209281152	0
10/14/82	EPDC	INVERTER	1-II	REMOVE + REINSTALL FOLLOW REPAIR	REMOVED AND REINSTALLED	1	210101249	0
10/15/82	AS	BREAKER	1H1-221	INSTALL HARDWARE S PER MANUFACTURES	INSTALLED HARDWARE AS PER MFGN DESIG	1	207271539	0
10/15/82	AK	BREAKER	1J1-2143	INSTALL HARDWARE AS PER MANUFACTURES	INSTALL HARDWARE AS PER MG DESIGN	1	207271549	0
10/15/82	AK	BREAKER	1H1-231	INSTALL HARDWARE AS PER MANUFACTURES	INSTALLED HARDWARE AS PER MG DESIGN	1	207271550	0
10/15/82	AK	BREAKER	1J1-211	INSTALL HARDWARE AS PER MANUFACTURES	INSTALL HARDWARE AS PER MFG DESIGN	1	207271551	0
10/15/82	MS	MOTOR	1-MS-NRV-101A	DISCON RECONNECT FOR MECH	DISC + RECON	1	208191010	0
10/15/82	MS	SOV	SOV-102B	DISC AND RECON FOR MECH	DISCONNECTED RECONNECT	1	209281148	0
10/15/82	MS	SOV	SOV-102A	DISC AND RECON FOR MECH	DISCONNECT RECONNECT	1	209281149	0
10/15/82	RC	VALVE	PCV-1455A	KLOC DISCON FOR MECH	VOID DUPLICATE MR1210081000	1	210080850	0
10/15/82	BD	SOV	BD-100A	REPLACE COIL	REPLACED SOV + TESTED	1	210100941	0
10/15/82	BD	VALVE	TV-BD-100A	ADJUST LIMIT SWITCHES	NO PROBLEM	1	210111240	0
10/15/82	RI	ANNUN	F-A9	CYCLES IN AND OUT WHEN ALARM	ALARM NOW CLEAR	1	210111302	0
10/15/82	RC	SWITCHES	PCV-1455C	REMOVE SWAPLOCK SWITCHES	REMOVED + REPLACED SWITCHES	1	210121148	0
10/15/82	CS	MOV	1-CS-102A+B	ADJUST AS NECESSARY	VOID PERF ON MR 1210121050	1	210121455	0
10/15/82	IA	VALVE	TV-IA-101A	VALVE WILL NOT OPEN	ADJUSTED LIMITS AND	1	210141101	0
10/15/82	FW	VALVE	FCV-1488	ADJUST VALVE	ADJUSTED VALVE POSITION	1	210141105	0
10/15/82	FW	VALVE	FCV-1498	ADJUST VALVE LIMIT SWITCHES	ADJUSTED VALVE POSTION	1	210141106	0
10/15/82	FW	VALVE	FCV-1478	ADJUST VALVE	ADJUSTED VALVE POSTION	1	210141107	0
10/15/82	FW	MOV	MOV-FW-150B	REPAIR OR REPLACE OVERLOAD ASSEMBLY	REPAIRED OVERLOAD ASSEMBLY	1	210150940	0
10/16/82	MS	MOTOR	NRV-MS-101B	REMOVE + REPLACE B MS-NRV MOTOR	MOTOR CLEANED BEARINGS	1	210152215	0
10/17/82	KI	ANNUN	K-B-4	NO APPARENT REASON FOR ALARM	DRIED PROBE CLEARED	1	210150118	0
10/18/82	SS	VALVE	HCV-SS-100B	ADJUST LIMITS/NO GREEN IND LITE	TESTED SAT	1	205201100	0
10/18/82	SS	VALVE	HCV-SS-100A	WIRE LIFTED TO SOV	REPLACED DIODE ASSEMBLY AND COIL	1	205201105	0
10/18/82	BD	MOTOR	1-MOV-BD-100X	DISCONNECT AND RECONNECT FOR MECH	DISCONNECT + RECONNECTED	1	209271130	0
10/18/82	FW	VALVE	MOV-FW-151E	ADJUST LIMIT SWITCH	CYCLED SAT	1	210141540	0
10/18/82	TB	CONT ROV	P-8	INVESTIGATE AND REPAIR POWER SUPPLY	INSPECTED PLUG AND	1	210171901	0
10/23/82	KPH	BREAKER	15H4	PERFORM GENERAL CLEANUP	PERFORMED GENERAL CLEANUP	1	210201402	0
10/24/82	RI	ANNUN	A-F-7	ALARM IS LOCKED IN SEAL HD TK	WORK PERFORMED ON MR	1	210111722	0

DRIT TOTAL

0

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

DEPT=ELAC

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UNIT2-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE/RYDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTIWNTH
10/10/82	EPDC	INVERTOR	III	INVERTER FAILED	REPAIRED INVERTER AND	2	210101100	0
10/10/82	FW	PMP MTR	2-FW-P-3B	BRIDGE MEGGAR PI CURVE MOTOR	P1 CURVE SAT	2	210101905	0
10/10/82	IA	BREAKER	2-IA-C-4B	BREAKER WILL NOT RESET	RESET BKR	2	210102029	0
10/11/82	MS	VALVE	2-TV-MS-201A	INTERMEDIATE INDICATION	REPAIRED LIMIT SWITCH	2	210101935	0
DEPT TOTAL								0

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

DEPT=INST

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UNIT1-11/02/82
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

DATE/TIME	SYS	COMP	MARKNO	SUMMARY	WKPFRF	U	MR	TOTI/WNTM
10/04/82	RG	INSTR	TI-I-411B	INDICATOR BOUNCING BET 98PERC AND 10	MONITORED CIRCUITRY	1	208060133	0
10/04/82	CH	INSTR	PI-1149	REPLACE FILTER AGAGE	REPLACED AND CALIBRATED	1	209301152	0
10/04/82	CH	INSTR	PI-1148	REPLACE FILTER BP GAGE	CALIBRATED GAUGE	1	209301153	0
10/04/82	RG	INSTR	PI-1-403	ERRONEOUS INDICATION	VOID WORK UNDER MRS1209011251	1	210020351	0
10/06/82	RG	TRANSMIT	PT-1403	TRANSMITTER SPIKING CHECK AND CALIB	REPLACED AND CALIBRATE	1	209012051	0
10/07/82	RM	DETECTOR	RM-162	SPIKING HIGH	RAN CAL-RM-053 REPLACED HI AND	1	202241945	0
10/07/82	RG	INSTR	LI+RC+1459A	LEAKS ON VENT	INSTALLED NEW XMTN AND FITTINGS	1	202262220	0
10/07/82	TH	INSTR	TC-KH-103	T/C READS OPEN FROM COMP	TIGHTENED DOWN LOOSE T/C WIRE ON	1	204171305	0
10/07/82	RG	INSTR	LI-1-462	INDICATOR DRIFTING HIGH	RAN CALIBRATION CHECKED SAT	1	205130709	0
10/07/82	IA	SWITCH	1-IA-C-1A	AUTO START DROPS ON COMPRESSOR LOAD	RESET AUTO SWITCH	1	209041400	0
10/07/82	RM	MONITOR	RM-CC-106	NEEDS SETPOINT CHANGE	ADJUSTED SETPOINTS	1	210061731	0
10/08/82	RG	INDICATOR	LI-459	PRZ LEVEL INDICATOR GIVES ERRONEOUS	VOID SAME AS S120226220	1	203190501	0
10/08/82	CV	RTD	RTD-CV-101A3	RTD OPEN	REPLACED RTD AND CALIBRATED LOOP	1	204281605	0
10/08/82	DA	TRANSMIT	LT-DA-100A	TRANSMITTER HAS SHIFTED HI CHECK CAL	XMITTER CHECKED OUT	1	209012248	0
10/08/82	MS	INSTR	LI-1-495	NEEDS CALIBRATION	CALIBRATED TRANSMITTER	1	209161700	0
10/08/82	NI	PWR SUPPL	NI-42	LOSS OF DETECTOR VOLTAGE	RESET HIGH VOLTAGE	1	210080854	0
10/09/82	RM	DETECTOR	RM-MS-125	CHECK CALIBRATION	REPLACED HIGH RANGE	1	210061154	0
10/09/82	NI	RECORDER	NR-45	PENS STICKING	INSTALLED NEW WIPER	1	210090830	0
10/10/82	LO	SWITCH	SW-8	REMOVE AND REPAIR SWITCH	REPAIRED MERCURIO SW	1	210101352	0
10/10/82	CG	INSTR	PI-CC-139B	GAUGE READS HIGH	REPLACED GAUGE	1	210160718	0
10/11/82	RG	INSTR	PCV-1455A	REPLACE UNBOLTED TRANSDUCER	VOID SAME AS 1207261522	1	210081501	0
10/11/82	SI	INSTR	LI-1-928	FLUCT 15 PERC LOWER THAN OTHER CHANN	VOID SAME AS S120080508	1	210081941	0
10/12/82	SI	INSTR	LT-1-930	CHECK CALIBRATION	CALIBRATED TRANSMITTER	1	210011137	0
10/12/82	SI	INSTR	LI-1-928	ERRATIC LEVEL INDICATION	CALIBRATED TRANSMITTER	1	210080508	0
10/12/82	RG	INSTR	TS-1430	C LOOP WR TC ACTING ERRATIC	CHECKED CALI OF LOW	1	210091205	0
10/12/82	SA	INSTR	PI-EG-105	LUBE OIL PRESS GAGE IS BROKEN	REPLACED GAUGE	1	210092028	0
10/12/82	CH	VALVE	HCV-1200A	AIR LEAK ON LINE	REPLACED AIR LINE	1	210122104	0
10/13/82	CH	PUMP	1-CH-P-1B	AUX OIL PMP DOES NOT STOP	REPLACED SW PUMP STILL	1	208201504	0
10/13/82	NI	INSTR	NI-41	ALL INDICA SHOW IT IS COMING IN BEE	REPLACED N 41 DETECTOR	1	208301730	0
10/13/82	RM	DETECTOR	RM-163	CALIBRATE DETECTOR	REPLACED CIRCUIT CARDS	1	210080853	0
10/13/82	RP	INSTR	N/A	CYCLES IN AND OUT WHEN SHOULD BE LOG	FILLED REFERENCE LAG	1	210111445	0
10/14/82	RG	PCV	PCV-1455C	DOES NOT WORK IN AUTO	PERFORMED PT 2.26	1	210021201	0
10/14/82	NI	PW SUPPL	N43	REPLACEMENT SUPPLY	REPLACED PWR SUPPLY	1	210071301	0
10/14/82	FW	GAUGE	1-FW-P-3A	REPLACE OIL PRESSURE GAUGES	REPLACED GAUGE WITH	1	210141054	0
10/14/82	FW	GAUGE	1-FW-P-3B	REPLACE OIL PRESSURE GAUGES	REPLACED GAUGE WITH	1	210141056	0
10/14/82	FW	GAUGE	1-FW-P-2	REPLACE OIL PRESSURE GAUGES TO BEARI	REPLACED GAUGE WITH	1	210141057	0
10/15/82	RM	MONITOR	RM-CC-105	NEED SETPOINT CHANGE	CYCLED VLV SAT AND TORQUE SWITCH CHG	1	210061730	0
10/15/82	CV	INSTR	PI-CV-101A2	DEVIATION BETWEEN CHANNELS CALIBRATE	CALIBRATED BOTH	1	210150138	0
10/15/82	SI	INSTR	LI-928	DEVIATION BET CHANNELS CALIB	VENTED TRANSMITTER	1	210150150	0
10/15/82	SI	INSTR	LI-930	DEVIATION BET CHANNELS CALIB	VENTED TRANSMITTER	1	210150151	0
10/16/82	NI	INSTR	NI-31	INDICATIONS ERRATIC ON NR-45	VOID SAME AS AMR S1210090830	1	210120940	0
10/16/82	MS	DETECTOR	FI-1-484	DETECTOR FAILED HIGH	INSTALLED NEW TRANSMITTER	1	210150900	0
10/16/82	RM	MONITOR	RM-162	REQUIRES SETPOINT	PUT IN SET POINT	1	210160530	0
10/18/82	TB	INSTR	P-8	FIX ROD CONTROL PROBLEM	PROBLEM IS OPEN	1	210171900	0

DEPT TOTAL

0

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

DEPT=INST

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UNIT2-11/02/82

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

RETSRVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTH
10/10/82	CC	VALVE	TV-CC-209B	TV-CC-209B DID NOT CLOSE AUTO	INSTALLED NEW RELAY	2	210101101	0
10/11/82	NI	INSTR	N-43	GAIN ADJ POT ERRATIC	REPLACED GAIN POT	2	210111000	0
DSPT TOTAL								0

HEALTH PHYSICS

OCTOBER, 1982

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

OCTOBER, 1982

None during this reporting period.