

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

August 15, 1983

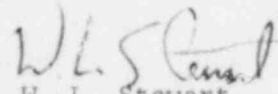
Mr. N. M. Haller, Director
Office of Management and Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 470
NO/WDC:acm
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Dear Mr. Haller:

Enclosed is the Monthly Operating Report for Surry Power Station Unit Nos. 1 and 2 for the month of July, 1983.

Very truly yours,


W. L. Stewart

Enclosure (3 copies)

cc: Mr. R. C. DeYoung, Director (12 copies)
Office of Inspection and Enforcement

Mr. James P. O'Reilly (1 copy)
Regional Administrator
Region II

Mr. D. J. Burke
NRC Resident Inspector
Surry Power Station

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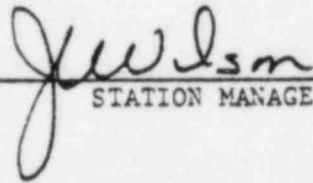
VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 83-07

APPROVED BY:

A handwritten signature in cursive script, appearing to read "J. Wilson", is written over a horizontal line.

STATION MANAGER

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OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 03 AUG 83
COMPLETED BY **Vivian Jones**
TELEPHONE 804-357-3184

OPERATING STATUS

- | | | | |
|---|---|-----------|-------------|
| 1. UNIT NAME | SURRY UNIT 1 | | |
| 2. REPORTING PERIOD | 70183 TO 73183 | | |
| 3. LICENSED THERMAL POWER (MWT) | 2441 | ----- | |
| 4. NAMEPLATE RATING (GROSS MWE) | 847.5 | NOTES | |
| 5. DESIGN ELECTRICAL RATING (NET MWE) | 788 | | |
| 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE) | 811 | | |
| 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE) | 775 | | |
| 8. IF CHANGES OCCUR IN CAPACITY RATINGS
(ITEMS 3 THROUGH 7) SINCE LAST
REPORT, GIVE REASONS | N/A | | |
| | | | |
| 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY
(NET MWE) | N/A | | |
| 10. REASONS FOR RESTRICTIONS, IF ANY | N/A | | |
| THIS MONTH YR-TO-DATE CUMULATIVE | | | |
| 11. HOURS IN REPORTING PERIOD | 744.0 | 5087.0 | 92975.0 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 739.8 | 1995.4 | 55907.1 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 3765.2 |
| 14. HOURS GENERATOR ON-LINE | 734.0 | 1871.1 | 54725.8 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 3736.2 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 1763203.7 | 4270026.7 | 126950626.6 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 558260.0 | 1351195.0 | 40957238.0 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 529108.0 | 1277817.0 | 38838280.0 |
| 19. UNIT SERVICE FACTOR | 98.7% | 36.8% | 58.9 %/o |
| 20. UNIT AVAILABILITY FACTOR | 98.7% | 36.8% | 62.9 %/o |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 91.8 %/o | 32.4 %/o | 53.9 %/o |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 90.2 %/o | 31.9 %/o | 53.0 %/o |
| 23. UNIT FORCED OUTAGE RATE | 1.3 %/o | 1.1 %/o | 22.3 %/o |
| 24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS
(TYPE, DATE, AND DURATION OF EACH) | FALL MAINTENANCE-10 DAYS-11-11-83
SNUBBER INSPECTION-5DAYS-8-26-83 | | |
| | | | |
| 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 03 AUG 83
 COMPLETED BY Vivian Jones
 TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	70183 TO 73183
3. LICENSED THERMAL POWER (MWT)	2441 -----
4. NAMEPLATE RATING (GROSS MWE)	847.5 NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A
10. REASONS FOR RESTRICTIONS, IF ANY	N/A

THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	5087.0	89855.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	4100.2	56774.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	4061.6	55905.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	9666490.1	130907836.2
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	3087795.0	42570514.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	2927496.0	40348417.0
19. UNIT SERVICE FACTOR	0.0	79.8 %	62.2 %
20. UNIT AVAILABILITY FACTOR	0.0	79.8 %	62.2 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	74.3%	57.9%
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	73.0%	57.0%
23. UNIT FORCED OUTAGE RATE	0.0	1.4 %	14.5 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	FALL MAINTENANCE - 10 DAYS 09-23-83		

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

DOCKET NO. 50-280

UNIT NAME Surry I

DATE August 4, 1983

COMPLETED BY Vivian Jones

TELEPHONE (804) 357-3184

REPORT MONTH July

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
83-08	7-7-83	S	0.0	H.	1				Reduced power to load follow on orders of system operator
83-09	7-8-83	S	0.0	H	1				Reduced power to load follow on orders of system operator
83-10	7-9-83	S	0.0	H	1				Reduced power to load follow on orders of system operator
83-11	7-15-83	F	5.9	A	3				Reactor trip caused by the loss of "B" main feed pump
83-12	7-15-83	F	4.1	A	3				Reactor trip caused by "B" S/G high high level due to excessive leakage of "B" feed regulating valves

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 July

DOCKET NO. 50-281
 UNIT NAME Surry II
 DATE August 4, 1983
 COMPLETED BY Vivian Jones
 TELEPHONE (804) 357-3184

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
83-12	06-30-83	S	744.0	C	3				Continuation of shutdown for refueling which commenced 06-30-83.

¹
 F: Forced
 S: Scheduled

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

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

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

⁵
 Exhibit I - Same Source

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: July, 1983

<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: July, 1983

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NOEM DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL						

DOCKET NO 50-280
UNIT SURRY I
DATE 8-1-83
COMPLETED BY Vivian H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JULY 83

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	739.2	17	732.5
2	738.5	18	730.7
3	738.7	19	728.8
4	739.2	20	726.4
5	735.8	21	722.3
6	740.0	22	724.5
7	676.8	23	728.5
8	533.7	24	727.3
9	673.1	25	729.0
10	740.3	26	727.8
11	742.1	27	728.4
12	744.0	28	730.4
13	739.8	29	731.6
14	739.3	30	729.9
15	438.5	31	729.4
16	510.0		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 % LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

DOCKET NO 50-281
UNIT SURRY II
DATE 8-1-83
COMPLETED BY Vivian H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JULY 83

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

July, 1983

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

July 1	0000	This reporting period begins with the unit at 100% power.
July 7	0043	Commenced power decrease, load following
	0233	Holding power at 60% Reactor power
	0510	Commenced power increase
	0800	Unit is at 100% power
July 8	0035	Commenced power decrease, load following
	0320	Holding power at 60% reactor power
	0500	Commenced power increase
	0716	Unit is at 100% power
July 9	0125	Commenced power decrease, load following
	0320	Holding power at 60% reactor power
	0600	Commenced power increase
	0845	Unit is at 100% power
July 15	1414	Rx trip, caused by loss of "B" main feed pump
	1619	Rx critical
	2008	Generator on the line
	2013	Rx trip, caused by "B" S/G hi-hi level
	2218	Rx critical
July 16	0021	Generator on the line
	0145	Holding power at 34% for chemistry
	0530	Commenced power increase
	1430	Unit is at 100% power
July 31	2400	This reporting period ends with the unit at 100% power

SUMMARY OF OPERATING EXPERIENCE

July, 1983

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 TWO

July 1	0000	This reporting period begins with the unit shutdown for refueling at 500°F while setting safeties
	1200	Rx coolant system < 350°/450 psig on RHR
	1605	Rx coolant system <200°F
July 13	0405	RCS loops drained
July 20	0715	RCS head lifted
	1930	Control rods unlatched
July 21	1942	Commenced fuel off-load
July 24	0630	Reactor vessel is defueled
July 28	1818	Commenced fuel on-load
July 31	2400	This reporting period ends with the unit at refueling Shutdown, core on-load in progress.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

None during this reporting period.

FACILITY CHANGES REQUIRING
NRC APPROVAL

July, 1983

None during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

July, 1983

DC 81-53 Containment Grab Sample Dedicated Penetration

Unit 1 & 2

This design change installed the supply and return tubing from the containment to the Containment Atmospheric Sampling Panel (CASP). The CASP shall be installed in accordance with DC 80-31. The separate Containment Atmospheric Sampling System will fulfill the requirements for NUREG-0737, Section II.B.3.

Summary of Safety Analysis

The modification does not affect normal operation or the operation of any safety related equipment under seismic or accident conditions.

DC 82-16B Replacement 5KV Electrical Penetrations

Unit 2

This design change replaced the 9th existing penetration with a new Conax penetration. The other 8 were reported in May, 1982. The design of these replacement penetrations utilizes ceramic bushings at the pressure boundary and requires no compound. The lack of maintainability of the old connectors and the difficulty in procurement of replacement components resulted in the decision to replace the penetrations with those of a proven and qualified design.

Summary of Safety Analysis

This modification does not affect station operations or the operations of safety related equipment. The replacement of the penetrations enhances the containment pressure boundary, as well as the operation of the Reactor Coolant Pumps and Residual Heat Removal Pumps.

DC 82-30 Replacement of Station Battery Chargers

Unit 1 & 2

This design change installed replacement battery chargers. Documentation is provided to demonstrate that the equipment will function in the environment (both atmospheric and seismic) that it operates in and that it can provide the indicated load.

Summary of Safety Analysis

The station battery chargers were replaced during a refueling outage to minimize the impact on station operation and safety. The FSAR will be changed to reflect the increased capacity of the new units (300 AMPS versus 200 AMPS).

DC 83-11 Replacement Diesel Generators Battery Racks

Unit 1 & 2

This design change replaced the emergency diesel generator batteries to ensure proper response. The old batteries had approached their useful life, were at reduced voltage level, and required excessive maintenance.

Summary of Safety Analysis

The modification enhances the operation of the emergency power system by providing a more reliable battery output to flash the field of the emergency diesel generator responding to an emergency start signal.

Unit

D/C 82-44

Incore Thermocouple (T/C)
Replacement

1

During reinstallation of the reactor vessel head, one of the thermocouple columns was damaged and subsequently removed. A bottom mounted integrated flux thimble thermocouple was added to restore lost temperature detection.

Summary of Safety Analysis

The modification does not affect normal station operation nor the operation of any safety related equipment.

TESTS AND EXPERIMENTS REQUIRING
NRC APPROVAL

None during this reporting period.

TESTS AND EXPERIMENTS THAT
DID NOT REQUIRE NRC APPROVAL

None during this reporting period.

OTHER CHANGES, TESTS AND EXPERIMENTS

None during this reporting period.

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
CHEMISTRY REPORT

July 19 83

T.S. 6.6.3.d

*(A)

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	6.78E-1	9.64E-2	4.45E-1	2.65E-1	2.24E-3	3.65E-2
Suspended Solids, ppm	0.0	0.0	0.0	0.5	0.5	0.5
Gross Tritium, $\mu\text{Ci/ml}$	1.88E-1	7.15E-2	1.22E-1	-	-	-
Iodine ¹³¹ , $\mu\text{Ci/ml}$	3.13E-2	1.41E-3	3.90E-3	9.74E-2	1.39E-5	5.76E-3
I ¹³¹ / I ¹³³	0.35	0.08	0.15	-	-	-
Hydrogen, cc/kg	47.1	(B) 23.0	31.6	25.0	3.9	11.2
Lithium, ppm	1.90	1.31	1.55	1.91	0.96	1.44
Boron-10, ppm*	169	129	151	445	203	373
Oxygen, (D.O.), ppm	0.005	0.005	0.005	3.80	0.005	2.10
Chloride, ppm	0.02	0.02	0.02	0.02	0.02	0.02
pH @ 25°C	6.92	6.54	6.67	6.32	4.73	5.18

* Boron-10 = Total Boron x 0.196

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

(C)

Phosphate —	Boron . 831
Sulfate —	Chromate 6.0
50% NaOH —	Chlorine 0.0

REMARKS: *(A) Unit 2 shut-down for refueling outage.

(B) Operations notified; recommended increase in VCT pressure. (C) The levels of these chemicals should produce no adverse environmental impact.

The following Lithium additions were made to Unit 1: 340 gms. on 7/8; 275 gms. on 7/12 325 gms. on 7/13; 600 gms. on 7/16.

The Primary Cation Bed was placed in service for Lithium removal from Unit 1 on the following dates: 7/1, 7/3, 7/5, 7/18, 7/19, 7/25, 7/28, 7/31.

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

None during this reporting period.

UNIT I

[illegible]

UNIT II
July, 1983

UNIT II

July, 1983

-20-

PROCEDURE REVISIONS THAT CHANGED THE
OPERATING MODE DESCRIBED IN THE FSAR

July, 1983

None during this reporting period.

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

Unit 1 PT 17.5 Containment Subsurface Drainage Pump

Performance was not completed within the grace period
(4-19-83 \pm 7 days). The test was completed on 4-27-83
with all results acceptable.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

MECHANICAL MAINTENANCE

THURSDAY 5 AUG 83 4 4150 AM PAGE 3

MAINTENANCE OF SAFETY RELATED SYSTEMS CONTINUED
UNIT 1

DEPT. MCH

DATE/TIME	SYS COMP	MATERIAL	SIGNATURE	WORK	NR
07/07/83	CH	1-CH-PL-5	CHANGE FILTER HIGH AP	PANCAILED MOOLS AND	306130615
07/07/83	LA	1-1A-614	REMOVES OLD INSTRUMENT	REMOVED OLD INSTRUMENT	305310909
07/09/83	CH	1-CH-352	FLANGE LEAK	FURNISHED FLANGE	306171218
07/09/83	LV	1-LV-P-6A	PUMP DOES NOT PUMP	CLEANED OUT PMP SUCTION TRP	306300863
07/09/83	PM	RT-RMS-109	PUMP WILL NOT PUMP	REPLACED PUMP-BELT	307040627
07/16/83	CH	1-CH-PL-5	FABRICATE AND INSTALL NEW HANDLE	INSTALLED NEW HANDLE	307010950
07/16/83	PP	24	DOOR NEEDS CO2 BLOW CHAIN	INSTALLED CHAIN	307050550

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

MECHANICAL MAINTENANCE

TUESDAY, 2 AUG 83 8 9150 AM PAGE 6

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING DOWNS OR MINOR PERFORMANCES

DEPT. HECT

DATE	RETSERVDT	STS COMP	WORKING	SUMMARY	WORKER	MR
01/02/83	RS	SHUTTERS	N/A	VISUAL INSPECTION INACCESSIBLE	AS FOUND COMPLETE	300131503
01/03/83	BD	PIPING	TV-BD-200A+V	REDUCERS REQUIRES MACHINING	MACHINED 12 3/2 BELL END	305150902
01/04/83	CM	VALVE	2-CH-1	VALVE WONT OPER	COMPLETED	307021510
01/07/83	MS	VALVE	2-MS-56	WELD NIPPLE	REPLACED VALVE AND	305101100
01/07/83	MS	VALVE	2-MS-12	ADJUST PACKING	ADJUSTED PACKING	305231054
01/08/83	MS	VALVE	N/A	LEAKS AT FLANGE	REPAIRED STEAM LEAK	305061933
01/09/83	CM	VALVE	2-CH-1	ADJ PACKING	ADJUSTED PACKING	305230813
01/09/83	MS	VALVE	2-MS-95	ADJUST PACKING	ADJUSTED PACKING	305231018
01/09/83	AS	VALVE	N/A	TEST MAIN STEAM SAFETY	PERFORMED PT ON SAFETY	306131281
01/11/83	CM	VALVE	2-CH-3	ADJ PACKING	TIGHTEN PACKING	305230818
01/11/83	MS	VALVE	2-MS-125	ADJUST PACKING	REPACKED VALVE	305231031
01/16/83	MC	PIPING	N/A	HOOUP LEVEL INDICATOR ROSE	INSTALLED VENT RIGS	307090412
01/16/83	CH	LAGGING	2-CH-8-2	REMOVE LAGGING	REMOVE ALL LAGGING ON PIPING	307061424
01/16/83	CC	PIPING	2-CC-836	REMOVE REDUCER FROM OFF	REMOVED PIPE THREADED SECTION	307072169
01/16/83	MS	VALVE	2-MS-120	CHAIN VALVE OFF	TIGHTENED LUGS+PULLY	306231221
01/16/83	MS	VALVE	2-MS-137	ADJUST PACKING	COMPLETED	305231125
01/16/83	CM	VALVE	2-CH-2	ADJ PACKING	REMOVED 3 RINGS	305230818
01/16/83	MS	VALVE	2-MS-170	REPACK VALVES	ADJUSTED PACKING	305230951
01/16/83	MS	VALVE	2-MS-169	REPACK VALVE	REPACKED VALVE	305230950
01/16/83	MS	VALVE	2-MS-168	REPACK VALVE	REPACKED VALVE	305230967
01/16/83	MS	VALVE	2-MS-167	REPACK VALVE	ADJUSTED PACKING	305230945
01/16/83	MS	VALVE	2-MS-132	REPACK VALVE	REPACKED VALVE	305230943
01/18/83	MS	VALVE	2-MS-131	ADJUST PACKING	REPACKED VALVE	305231035
01/18/83	MS	VALVE	2-MS-131	CHAIN VALVE OFF	PREED AND REPACKED VALVE	306231220
01/22/83	CH	VALVE	2-CH-294	VALVE LEAKS BY	NO PROBLEM FOUND	307061759
01/24/83	CV	VALVE	2-CV-168	PACKING LEAK	ADJUSTED PACKING GLAND	307080532
01/25/83	MS	VALVE	2-MS-7	VALVE IS MISSING	REMOVED BONNET	306231223
01/24/83	MS	VALVE	2-MS-158	CHAIN VALVE OFF	COMPLETED	306231222
01/24/83	SV	PUMP	2-SV-P-10A	PACKING LEAKS	REPACKED PUMP	306210345
01/24/83	RC	GEN	2-RC-8-1C	INSTALL DRAIN ON CHANNEL HEAD	REMOVED BLANK + CONNECTED	307141607
01/24/83	CV	PUMP	2-CV-P-1B	REPAIR PUMP	REPLACED PUMP	307122343
01/24/83	CH	VALVE	2-CH-276	BUILD UP BORIC ACID NEST	VALVE CLEANED	307120337
01/24/83	CH	VALVE	MOV-2270A	BUILD UP OF BORIC ACID NEST	VALVE CLEANED	307120336
01/24/83	CS	MOV	2805B	PACKING LEAK	ADJUSTED PACKING	307120132
01/24/83	EE	EDG	EE-8G-2	PERFORM PMS	PERFORMED PMS	307082507
01/24/83	SV	PIPING	N/A	CAGE LINE	UNPLUGGED CAGE LINE	307100510
01/24/83	CH	PIPE	N/A	ELBOW PIPING IS LEAKING	TIGHTENED ELBOW	307101049
01/24/83	EE	EDG	EE-8G-2	PERFORM PMS	PERFORMED PMS	307082506
01/24/83	RL	PIPING	N/A	INSTALL NEW GASKET FOR JOOLFIERS	MOVED JOOL FIERS	307197025
01/24/83	MS	VALVE	2-MS-159	ADJUST PACKING	COMPLETED	305231093

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MAINTENANCE ON SAFETY RELATED SYSTEMS DURING OUTAGE ON REDUCED POWER PERIOD

DEPT 403-21

DATE/TIME	STS COMP	MARNO	SUMMARY	WRTDR	MR
01/24/83	AS	2-MS-151	ADJUST PACKING	COMPLETED	305231041
01/24/83	AS	2-MS-154	ADJUST PACKING	COMPLETED	305231039
01/24/83	AS	2-MS-153	ADJUST PACKING	COMPLETED	305231133
01/24/83	AS	2-MS-155	ADJUST PACKING	ADDED R2 RINGS GARLON	305231045
01/24/83	AS	2-MS-139	ADJUST PACKING	ADJUSTED PACKING	305231153
01/24/83	AS	2-MS-141	ADJUST PACKING	COMPLETED	305231151
01/24/83	AS	2-MS-98	REPACK VALVE	INSTALL NEW PACKING	305230932
01/24/83	AS	2-MS-131	REPACK VALVE	REPACKED VALVE	305230942
01/24/83	AS	2-MS-130	REPACK VALVE	REPACKED VALVE	305230939
01/24/83	AS	2-MS-129	REPACK VALVE	INSTALLED NEW PACKING	305230936
01/24/83	AS	2-MS-99	REPACK VALVE	TIGHTENED PACKING	305230933
01/24/83	AS	N/A	INSTALL LOCK NUT ON VALVE	INSTALLED AND SET KEY	305242317
01/24/83	AS	2-MS-155	THE VALVE IS VERY HARD TO TURN	LUBRICATED VALVE STEM	305141444

01/26/83 RL FILTR 2-RL-P-2 FILTER DIRTY REPLACED FILTERS WITH NEW ONES 307230219

01/26/83 CH VALVE PCV-2113A REPAIR PACKING LEAK TIGHTENED PACKING GLAND 306161827
01/26/83 CH TRANSM FT-2113 REPAIR FLANGE LEAK TIGHTENED BOLTS 306161820

01/27/83 CH VALVE 2-CH-78 REPAIR LEAKAGE REPLACED WITH NEW BONNET/DIAPHRAM 306161825
01/27/83 CH VALVE 2-CH-276 REPAIR LEAKAGE TIGHTENED BOLTS 306161828
01/28/83 SI VALVE TV-2884C REPAIR TRIP VALVE REPACKED BOTH VALVES 306161830
01/28/83 SI VALVE TV-2884A REPAIR PACKING LEAK REPACKED BOTH VALVES 306161832
01/28/83 RC VALVE 2-RC-126 VALVE LEAK REPACK VLV 5 RINGS 306300920
01/28/83 SI COUPL SI-162 INDICATOR IS LEAKING APPLIED THREAD DOPE TO REPAIR INTERLOCK HANDLE 307091300
01/28/83 IA SOLENOID N/A HANDLE ON PIN BROKEN REPACKED 307220100
01/28/83 AS VALVE 2-MS-127 ADJUST PACKING REPACKED VALVE 305231037
01/28/83 AS VALVE 2-MS-123 ADJUST PACKING REPACKED VALVE 305231034
01/28/83 AS VALVE 2-MS-92 ADJUST PACKING REPACKED VALVE 305231025
01/28/83 AS VALVE 2-MS-46 ADJUST PACKING REPACKED VALVE 305231023
01/28/83 AS VALVE 2-MS-91 ADJUST PACKING REPACKED VALVE 305231021
01/28/83 CH VALVE 2-CH-6 VALVE HAS BODY TO BONNET LEAK LAPPED SEAT CHANGED 305192358
01/28/83 MS VALVE 2-MS-378 REPAIR TO ORIGINAL REPACKED 2-MS-378 304261230
01/28/83 SI VALVE 2-SI-10 LINE OR VALVE IS PLUGGED VENT UNPLUGGED PIPE 304201130
01/28/83 AS VALVE 2-MS-343 STEEL BROKEN ON VALVE 2-MS-343 REPLACE 2-MS-343 212121237
01/28/83 CH VALVE 2-CH-5 VALVE HAS BODY TO BONNET LEAK REPACKED DIAPHRAM 212221730
01/28/83 CH VALVE 2-CH-7 OUTFLOW LEAKS THROUGH LAPPED SEAT 301041402

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REMOVED POWER PERIODS

DEPT: MECH

DATE	REQ/SERV	SYS	COMP	MARNO	SUMMARY	WTRPT	MR
07/28/83	CH	VALVE	2-GR-11		OVERHAUL LEAKS THROUGH	LAPPED BODIED BEAMS	3010M1401
07/28/83	MS	VALVE	2-MS-377		REPAIR TO ORIGINAL PURNITE	REPLACED VALVE AND LIFTING	301101508
07/30/83	CS	PUMP	2-CS-P-3		ES 83-03 REPLACE CAP SCREWS	COMPLETED	301111423
07/30/83	SV	PIPE	PT-SW-201C		PIPE IS CRACKED	FIXED PIPE	212291726
07/30/83	PV	VALVE	2-PV-15		LEAKS BY	REPLACED VALVE	305080444
07/30/83	MS	VALVE	2-MS-97		REPACK VALVE	REPACKED VALVE	305230929
07/30/83	BD	VALVE	2-BD-2		ADJUST PACKING OR REPACK	ADJ PACKING	305231215
07/30/83	BD	VALVE	2-BD-1		ADJUST PACKING OR REPACK	ADJ PACKING	305231214
07/30/83	BD	VALVE	2-BD-53		ADJUST PACKING OR REPACK	ADJ PACKING	305231311
07/30/83	BD	VALVE	2-BD-24		ADJUST PACKING OR REPACK	ADJ PACKING	305231225
07/30/83	BD	VALVE	2-BD-22		ADJUST PACKING	ADJ PACKING	305231224
07/30/83	BD	VALVE	2-BD-21		ADJUST PACKING	ADJ PACKING	305231222
07/30/83	BD	VALVE	2-MS-11		ADJUST PACKING	ADJ PACKING	305231218
07/30/83	BD	VALVE	2-BD-4		ADJUST PACKING OR REPACK	ADJ PACKING	305231217
07/30/83	SI	VALVE	2-SI-16		ADJUST OR REPACK VALVE	REPACKED VALVE	305250303
07/30/83	CH	VALVE	2-CH-291		REPACK VALVE	REPACKED VALVE	305250254
07/30/83	SI	FLANGE	FE-2940		FLANGE LEAK	REPLACED FLANGE GASKET	305250304
07/30/83	CH	VALVE	MOV-2373		ADJ OR REPL PACKING	ADJ PACKING	305250656
07/30/83	MC	VALVE	PCV-2455C		OVERHAUL	REMOVED STEM PLUG	306081414
07/30/83	MC	VALVE	PCV-2456		OVERHAUL	REMOVED STEM PLUGS	306081413
07/30/83	RS	DOOR	N/A		INNER DOOR HYDRAULIC MOTOR	REPAIRED INNER DOOR HYDRA	307210750
07/30/83	SI	VALVE	2-SI-71		LEAKING STEM	REPACKED VALVE	307192146
07/30/83	MS	VALVE	2-MS-143		INSTALL HANDWHEEL	INSTALL VALVE WHEEL	307231550
07/30/83	CC	VALVE	TV-CC-209B		VALVE HAS EXCESS LEAKAGE	REPLACED RUBBER LITER	307251635
07/30/83	CS	ORIFIC	MO-CS-202B		FLANGE LEAK	INSTALLED NEW GASKINS	307111751
07/30/83	CS	ORIF	MO-CS-202A		FLANGE LEAKS	DISASSEMBLED & CLEAN GASKET SURFACES	307111750
07/30/83	IA	VALVE	2-IA-104		VALVE SEAT HAS EXCESS LEAKAGE	LAP SEAT REPLACE GASKET	307081055
07/30/83	CS	VALVE	MOV-CS-202B		PACKING LEAK	REMOVED & REPLACED PACKING	307111753
07/30/83	CS	VALVE	MOV-CS-203B		PACKING LEAK	ADJUSTED PACKING	307111752
07/30/83	CV	PUMP	2-CV-P-1B		REPLACE PUMP	REPLACED PUMP	307121920
07/30/83	CH	VALVE	2-CH-444		PACKING LEAK	ADJ PACKING	307140101
07/30/83	CV	PUMP	SPARE		REBUILT COMP VAC PUMP	REPAIRED PUMP	307130450
07/30/83	FP	FLANGE	N/A		SPEC FLANGE GASKETS MISSING REFLAC	REPLACED GASKET	307080423
07/30/83	CH	VALVE	LCV-2115A		REPAIR PACKING LEAK	ADJ PACKING	306161816
07/30/83	CH	VALVE	2-CH-82		REPAIR LEAKAGE	REPLACED BONNET ASSY	306161823
07/30/83	CH	VALVE	2-CH-81		REPAIR LEAKAGE	REPLACED BONNET ASSY	206161822

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

THURSDAY, 2 AUG 83 8 5150 AM PAGE 4

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

DATA KIRC

ACTSERVDT	STS COMP	MARKNO	SUMMARY	UPPER	MR
01/18/83	CH	ENL 9 CK23	CIRCUIT BKA LOOSE	REPLACED BREAKER WITH	301062116
01/18/83	CH	ENL 8 CK21	CIRCUIT BKA IS LOOSE	REPLACE BREAKER	301062116

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

TUESDAY, 8 AUG 83 1 0150 AM PAGE 9

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OFFICE OR RESERVE POWER PERIODS

DEPT BLAC

REFSERVIT	STS	COMP	MARKNO	SUMMARY	VRPMP	MR
07/01/83	MC	MOV	MOV-2535	MOV WILL NOT ELEM CLOSE	REPLACED VALVE SAT	307010354
07/07/83	SS	VALV	TV-SS-2048	PLV HAS NO INDIC LIMITS	REPLACE LIFTED LEAD	307032197
07/08/83	SS	VALV	TV-SS-2048		REPLACE LEAK TEST SAT	307080046
07/10/83	PV	PUMP	2-FV-P-3A	REPLACE PLASTIC PLUGS ON MOTOR	NO PLUGS NEEDED	304070343
07/10/83	PV	PUMP	2-FV-P-3B	REPLACE PLASTIC PLUGS ON MTR	NO PLUGS NEEDED	304020342
07/16/83	RE	BREAKER	25H3	PERFORM RE-CB-E/M	PERFORMED THIS RE-CB-E/M	305241083
07/21/83	RS	HATCH	N/A	ELEC DISC+ RECON	DISC + RECON MOTOR	307211126
07/24/83	CV	PUMP	2-CV-P-1B	PUMP WILL NOT RUN	INSTALLED NEW PUMP	307190200
07/25/83	VS	MOTOR	2-VS-P-100	MOTOR BURNED UP REPLACE MOTOR	REPLACED MOTOR SAT	212191214
07/27/83	CC	SOLENOID	TV-CC-205B	DISC + RECON SOLENOID	DISC + RECON FOR MECH	307260216
07/27/83	SN	MOV	MOV-SN-204B	DISC + RECON	DISCON + RECON SAT	307051107
07/27/83	EPH	GENER	25H3	PERFORM EDP-P-H	PERFORMED EDP-P-H-72	305131247
07/27/83	EE	RELAY	N/A	PERFORM EDP-P	PERFORMED EDP-P-H-76	306131236
07/27/83	MC	PUMP	25C3	PERFORM EDP-P-H-69	PERFORMED EDP-P-H-69	305131220
07/30/83	PH	CRANE	N/A	MOVE LIGHTS	MOVED LIGHTS	307051755
07/30/83	PH	OTHER	N/A	INSPECT ELEC	VISUAL INSPECTION OF	307051738
07/30/83	RE	BREAKER	25J3	PERFORM RE-CB-E/M	COMPLETED INS	306241040
07/30/83	CR	BREAKER	25J2	PERFORM CR-CB-E/3C1	COMPLETED INS	306241358
07/30/83	CV	VALVE	TV-CV-2508	VALVE WILL NOT STAY OPEN	REPLACED LIFTED LEAD	307180106
07/30/83	SI	VALVE	MCV-2850B	SOLENOID IS BLOWING AIR	REPLACED SOLENOID	307130530
07/30/83	PV	MOTOR	2-FV-P-3B	DISCONNECT AND RECONNECT	DISC + INSPECT BEARINGS	306021043

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OF REACTOR POWER DEVICES

UNIT 1 INST

REF:SERVDT	STS	COMP	MARKNO	SUMMARY	WKFERR	MR
01/01/83	SW	PIPING	PLC-SW-100A	CURLYQUE PIPING	REPLACED TUBING	305310601
01/01/83	MP	IRPI	N/A	IRPI INDICATORS	CHECK CALIBRATING	306301555
01/01/83	NI	RECORDER	NR-1-47	CHANNEL TWO READS ZERO	ADJUSTED GAIN	306300535
01/08/83	PC	RECORDER	TR-1-412	RECORDER DOES NOT ADVANCE	TROUBLE SHOT RECORDER	306302230
01/15/83	VS	INSTR	PI-SW-116B	GAGE IS BROKEN	REPLACED GAGE	307132321

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

DEPT: INST

REYSERVD	SYS COMP	MAKNO	SUMMARY	WKPFR	MR	
01/02/83	FP	PANEL	N/A	CHECK FIRE PROTE PANEL	REPLACED RCN	306221131
01/03/83	RH	MONITOR	RI-RMS-264	MONITOR READS MUCH HIGHER	REPLACED DETECTOR	307040800
01/03/83	RH	MONITOR	RI-RMS-262	MONITOR READING HIGH	REPLACED DETECTOR	307036327
01/03/83	RH	MONITOR	RI-RMS-263	MONITOR READS HIGH	REPLACED DETECTOR	307030059
01/06/83	RH	MONITOR	RM-259	MONITOR INDIC HIGH THAN ACTU	FOUND PAPER OUT	307052016
01/06/83	RP	OPAT	TI-412B	OPAT CH Y FAILED TO 13	REPAIRED AND CALIBRATED	307030228
01/07/83	RH	GAUGE	2-RH-P-1B	SUCT AND DISCH GAUGE NEEDS CAL	REPLACED DISCHARGE	307021318
01/07/83	RH	GAUGE	2-RH-P-1A	SUCT AND DISCH GAUGE NEED CALAIB	REPLACED DISCHARGE	307021316
01/08/83	RC	VALVE	PCV-2456	VLV FAILS TO GIVE FULL OPEN	PT RAN AGAIN BY INST	307010640
01/09/83	RH	MONITOR	RI-RMS-259	FILTER FAULT ALARM WONT CLEAR	REATTACHED SWINCARM	307061225
01/09/83	RH	MONITOR	RI-RMS-264	MONITOR READING IRRADICALLY	PERFORMED CAL-RM-053	305081544
01/09/83	CV	INSTR	PI-CV-250	VACC PUMP RUNNING	CHECKED OPERATION	212190922
01/11/83	CH	INSTR	RCV-2-186	VLV CONTROLLER LINKAGE BROKEN	REPLACED BROKEN	307082000
01/16/83	RH	FILT	RM-259	ADVANCE FILT BUTTON	CHECKED OPERATION PERFORMED	306236614
01/16/83	RH	SMP RIC	N/A	INSTALL TUBING FOR RP	INSTALL TUBING FITTING	305111029
01/17/83	CH	CONTR	PCV-2160	CONTROLLER FAILS	REPLACED N/A STATION	307012100
01/19/83	CH	CABLE	N/A	MANUFACTURE A NEW SET	MADE CABLE	307180930
01/21/83	DC	VALVE	TV-DC-208A	REPAIR BROKEN AIR LINE	REPLACED NOT FURROWS	307210940
01/22/83	RH	MONITOR	RI-MS-224	HIGH ALARM SETPOINT	SETPOINTS WERE CORRECT	307201145
01/22/83	RH	MONITOR	RI-MS-226	HIGH ALARM SETPOINT	SETPOINTS WERE CORRECT	307201149
01/22/83	RH	MONITOR	RI-MS-225	HIGH ALARM SETPOINT	SETPOINTS WERE CORRECT	307201147
01/24/83	NI	RECORDER	NR-45	STRING BROKE ON PEN	REPLACED BROKEN STRING	307180130
01/24/83	RH	ALARM	RC-RMS-259	ALARM DIS NOT ACTUATE	FOUND MONITOR TURNED	307190759
01/24/83	NI	RANGE	N-31	N31 POWER SUPPLY DID NOT REENERGIZE	RESET CROWBAR CIRCUIT	306300241
01/25/83	CH	PI	2-PI-2160	FITTING BLOWN OFF	REPLACED BROKEN FITTING	307020807
01/25/83	CC	TRANSM	FT-CC-208	REPLACE DEFECT TRANSM	REPLACED TRANSMITTER WITH	307231131
01/27/83	MS	GAGE	PT-MS-201B	INSTALL 0-60 PSIG GAGE	INSTALLED GUAGE	306221129
01/27/83	MS	GAGE	PT-MS-201A	INSTALL 0-60 PSIG GAGE	INSTALL GUAGE	306221128
01/28/83	RC	TRANSMIT	N/A	REPLACE TRANSMITTERS PER DC-80/81D	REPLACED TRANSMITTER	307191403
01/28/83	RC	MONITOR	SCI-R-200A	ERRATIC IN TC MODE	CLEANED CONTACTS ON AI	301220731
01/30/83	RH	MONITOR	RI-RM-250	MONITOR GIVING LARGE FLUCTUATION	PERFORMED ALARM CARD	307221233
01/30/83	RH	MONITOR	RM-RMS-262	VERIFY CHECK SOURCE OPER	REPAIRED CABLE	307051047

HEALTH PHYSICS

None during this reporting period.

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

JULY, 1983

<u>PROCEDURE NO.</u>	<u>UNIT</u>	<u>TITLE</u>	<u>DATE DEVIATED</u>	<u>DATE SNSOC REVIEWED</u>
PT 14.2	1	Main Steam Trip Valves and Main Steam Non-Return Valves	6-16-83	7-07-83
CAL-MM-133 ²	1,2	Calibration Procedure for Sigma Theta Loop	7-05-83	7-21-83
PT 16.4	2	Containment Isolation Valve Leakage	7-02-83 7-03-83 7-05-83 7-07-83 7-11-83	7-28-83