VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 79-07

JULY, 1979

APPROVED:

J. L. Wilson

for MANAGER

CONTENTS

OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 02 AUG 79
COMPLETED BY O.J. COSTELLO
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1	
2. REPORTING PERIOD	001 7/1/79 TO 7/31/79	
3. LICENSED THERMAL POWER (MWT)	2441	NOTES
4. NAMEPLATE RATING (GROSS MWE)	847.5	
5. DESIGN ELECTRICAL RATING (NET MWE)	822	
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811	
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775	
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A	
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A	
10. REASONS FOR RESTRICTIONS, IF ANY	N/A	

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	5087.0	57911.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	1713.6	37413.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	1711.7	36570.6
15. UNIT RESERVE SHUTDOWN HOURS	744.0	1464.0	1464.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	4159617.0	84515570.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	1335155.0	27642738.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	1268264.0	26239983.0
19. UNIT SERVICE FACTOR	0.0	33.6 %	63.1 %
20. UNIT AVAILABILITY FACTOR	100.0 %	62.4 %	65.7 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	32.2 %	58.5 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	30.3 %	55.1 %
23. UNIT FORCED OUTAGE RATE	100.0 %	66.4 %	21.8 %

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE,DATE,AND DURATION OF EACH)

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP — Aug. 18, 1979

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 02 AUG 79
COMPLETED BY O.J. COSTELLO
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2	
2. REPORTING PERIOD	001 7/1/79 TO 7/31/79	
3. LICENSED THERMAL POWER (MWT)	2441	NOTES
4. NAMEPLATE RATING (GROSS MWE)	847.5	
5. DESIGN ELECTRICAL RATING (NET MWE)	822	
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811	
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775	
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A	
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A	
10. REASONS FOR RESTRICTIONS, IF ANY	N/A	

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.0	5087.0	54791.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	819.4	34499.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	818.9	33996.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	1957906.0	79194083.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	644305.0	25868844.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0.0	611521.0	24536605.0
19. UNIT SERVICE FACTOR	0.0	16.1 %	62.0 %
20. UNIT AVAILABILITY FACTOR	0.0	16.1 %	62.0 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	15.5 %	57.8 %
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	14.6 %	54.5 %
23. UNIT FORCED OUTAGE RATE	0.0	0.0	21.0 %

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP — Nov. 28, 1979

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 1
DATE AUG. 1, 1979
COMPLETED BY O. J. COSTELLO
TELEPHONE

REPORT MONTH JULY 1979

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
79-6	7-1-79	F	744	D	1				Continuation of shutdown due to Show-Cause order issued by the NRC concerning possible error in piping stress analysis performed by Stone & Webster. Shutdown began on 3/19/79. An analysis is being prepared for submittal to the NRC.

1
F: Forced
S: Scheduled

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

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

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

5
Exhibit I - Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY 1979

DOCKET NO. 50-281
UNIT NAME SURRY 2
DATE AUG. 1, 1979
COMPLETED BY O. J. COSTELLO
TELEPHONE

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
79-6	7-1-79	S	744	C	1				Continuation of shutdown for refueling and steam generator replacement which began on 2/4/79.

-4-

1
F: Forced
S: Scheduled

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

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

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

5
Exhibit I - Same Source

(9/77)

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1 MONTH: JULY, 1979

DATE	TIME	HOURS	LOAD, MW	REDUCTIONS, MW	MWH	REASON
None during this reporting period.						
				MONTHLY TOTAL	0	

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 2 MONTH: JULY, 1979

DATE	TIME	HOURS	LOAD, MW	REDUCTIONS, MW	MWH	REASON
None during this reporting period.						
				MONTHLY TOTAL	0	

DOCKET NO. 50-280
UNIT SURRY I
DATE 8-1-79
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JULY 79

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.

DOCKET NO. 50-281
UNIT SURRY II
DATE 8-1-79
COMPLETED BY O J COSTELLO

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JULY 79

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, 1979

Listed below in chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

UNIT 1

July 1 - This reporting period begins with the unit at cold shutdown and piping stress analysis in progress.

July 31 - This reporting period ends with the unit at cold shutdown.

UNIT 2

July 1 - This reporting period begins with the unit at cold shutdown, all fuel removed from the reactor and steam generator replacement in progress.

July 31 - This reporting period ends with the unit at cold shutdown.

AMENDMENTS [redacted]FACILITY LICENSE OR TECHNICAL [redacted]ECIFICATIONS

JULY, 1979

There were none during this reporting period.

FACILITY CHANGES REQUIRING
NRC APPROVAL

JULY, 1979

There were none during this reporting period.

FACILITY CHANGES THAT
DID NOT REQUIRE NRC APPROVAL

JULY, 1979

The following facility changes were implemented during the month of July. None of the changes constitute an unreviewed safety question per 10CFR50.59.

	DESIGN CHANGE	UNIT
1.	DC 77-40 - Domestic Water Supply Description - This change provided for a third well to supply water to the Fire Protection and Domestic Water Storage Tanks. This additional water will compensate for the usage experienced with the increased number of personnel assigned to Surry.	1,2

Summary of Safety Evaluation

The provision for another well is not addressed in the Safety Analysis Report since it does not really effect a safety related system.

2.	DC 78-S28 - Service Water Valve Replacement Description - This change involves replacing the existing 1 1/2" and 2" gate valves in the service water system with bronze bell valves.	2

Summary of Safety Evaluation

This design change does not increase the probability of an occurrence previously evaluated in the FSAR, create a possibility for an accident or malfunction different from those evaluated, or reduce the margin of safety previously defined.

TESTS AND EXPERIMENTS REQUIRING NRC APPROVAL

JULY, 1979

There were none during this reporting period.

TEST AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

JULY, 1979

ST-39	Unit
The Anchor Bolt Inspection and Test Program for Seismic Category I piping systems was conducted on July 13, 1979. This test was designed to comply with an inspection required by I.E. Bulletin 79-02 and to verify the concrete anchor bolts fastened to hanger base plates installed in seismic category I systems were in accordance with the original design.	1

[redacted]ER CHANGES, TESTS AND EXPERIME[redacted]S

JULY, 1979

There were none during this reporting period.

SURRY POWER STATION

CHEMISTRY REPORT

JULY , 1979

T.S.6.6.A.11

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2 **		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., µCi/ml	3.08E-3	8.63E-4	1.55E-3	6.92E-4	3.76E-4	5.67E-4
Suspended Solids, ppm	0.1	0,1	0.1	0 .1	0.1	0.1
Gross Tritium, µCi/ml	*	*	*	*	*	*
Iodine-131, µCi/ml	*	*	*	*	*	*
I-131/I-133	*	*	*	*	*	*
Hydrogen, cc/kg	21.8	21.8	21.8	*	*	*
Lithium, ppm	*	*	*	*	*	*
Boron-10, ppm +	365.7	208.9	324.8	391.0	387.5	389.6
Oxygen-16, ppm	0.000	0.000	0 .000	4 .500	3.800	4 .130
Chloride, ppm	0.05	0.05	0 .05	0 .05	0.05	0 .05
pH @ 25°C	5.22	4.66	5 .00	4 .87	4.68	4.77

+ Boron-10 = Total Boron x 0.196

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

Phosphate	169	Boron	413
Sulfate	171	Chromate	0.58
50% NaOH	0.0	Chlorine	0.0

Remarks: * Unit at cold shutdown entire month of July.

** Unit drain for primary maintenance 07-11-79; no sampling performed after this date.

DESCRIPTION OF ALL INSTANCES WHERE
THERMAL DISCHARGE LIMITS WERE EXCEEDED

JULY, 1979

None during this reporting period.

FUEL HANDLING

JULY, 1979

During the month of July, 36 contaminated fuel assemblies were shipped to Westinghouse Nuclear Fuel Division at Columbia, South Carolina for refabrication.

JULY, 1979

FUEL HANDLING

UNIT NO.1

DATE SHIPPED/RECEIVED	NO OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL
	None during this reporting period.		

JULY, 1979

FUEL HANDLING

UNIT NO. 2

DATE SHIPPED/~~RECEIVED~~	NO OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVE
07-02-79	12	LM06EQ/3.4%	2.5 mR/hr.
		LM06FV/3.4%	2.5 mR/hr.
		LM06FE/3.4%	2.5 mR/hr.
		LM06ER/3.4%	2.5 mR/hr.
		LM06G9/3.4%	2.5 mR/hr.
		LM06EX/3.4%	2.5 mR/hr.
		LM06GC/3.4%	2.5 mR/hr.
		LM06GB/3.4%	2.5 mR/hr.
		LM06FY/3.4%	2.5 mR/hr.
		LM06G6/3.4%	2.5 mR/hr.
		LM06GD/3.4%	2.5 mR/hr.
		LM06FC/3.4%	2.5 mR/hr.
07-18-79	12	LM06FZ/3.4%	2.5 mR/hr.
		LM06G5/3.4%	2.5 mR/hr.
		LM06GH/3.4%	2.5 mR/hr.
		LM06F1/3.4%	2.5 mR/hr.
		LM06GO/3.4%	2.5 mR/hr.
		LM06ES/3.4%	2.5 mR/hr.
		LM06FG/3.4%	2.5 mR/hr.
		LM06FX/3.4%	2.5 mR/hr.
		LM06FK/3.4%	2.5 mR/hr.
		LM06G3/3.4%	2.5 mR/hr.
		LM06G8/3.4%	2.5 mR/hr.
		LM06FO/3.4%	2.5 mR/hr.
07-31-79	12	LM06FT/3.1%	2.5 mR/hr.
		LM06FR/3.1%	2.5 mR/hr.
		LM06FS/3.1%	2.5 mR/hr.

JULY, 1979
FUEL HANDLING

UNIT NO. 2

DATE SHIPPED/[illegible]	NO OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVE
07-31-79 (continued)		LM06FN/3.1%	2.5 mR/hr.
		LM06FH/3.1%	2.5 mR/hr.
		LM06FP/3.1%	2.5 mR/hr.
		LM06EY/3.1%	2.5 mR/hr.
		LM06ET/3.1%	2.5 mR/hr.
		LM06FQ/3.1%	2.5 mR/hr.
		LM06FJ/3.1%	2.5 mR/hr.
		LM06EW/3.1%	2.5 mR/hr.
		LM06FL/3.1%	2.5 mR/hr.

PROCEDURE REVISIONS THAT CHANGED THE OPERATING MODE DESCRIBED IN THE FSAR

JULY, 1979

There were none during this reporting period.

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

JULY, 1979

There were none during this reporting period.

INSERVICE INSPECTION

JULY, 1979

The Unit #1 initial radiography inspection of the feedwater lines, per IE Bulletin No. 79-13, was completed July 25, 1979, with the following results:

"A" Steam Generator Feedline - 17 welds total; 4 welds are rejectable due to small areas of porosity, lack of fusion, etc. No cracking as was reported in the nozzle area was noted. Two welds could not be radiographed due to the presence of water in the line. These welds were ultrasonically examined and found to be acceptable.

"B" Steam Generator Feedline - 11 welds total; 2 welds are rejectable due to small areas of porosity, incomplete fusion, etc. No cracking as was reported in the nozzle area was noted. One welds total surface was only inspected 60% due to a saddle support for snubbers covering the remainder of the weld.

"C" Steam Generator Feedline - 14 welds total; 6 welds are rejectable due to small areas of porosity, incomplete fusion, slag, etc. No cracking as was reported in the nozzle area was noted.

The 3" Auxiliary Feedline connections on all three Main Feedlines were magnetic particle inspected. The results of the inspections were acceptable.

Radiography was performed on the Unit #2 Steam Generator Feedwater Nozzles and the 16" x 14" reducer welds. Radiography showed crack indications on the counterbore of the reducer 16" end in "A" Steam Generator; crack indications on the counterbore of the reducer 16" in "B" Steam Generator; incomplete fusion/porosity/slag - rejectable on the 16" end in "C" Steam Generator.

The 14" weld to reducer was radiographed on "A", "B" and "C" Feedlines and showed a small crack at the root of the weld on "C" reducer weld.

Radiography is in progress on the Unit #2 Feedwater Lines. Results are not yet available.

A visual inspection was performed on valve 1-RC-127 and associated piping with no reportable indications noted.

DEPT=NDT

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTM
07/23/79	RC	VALVE	1&RC=127	NDT WELDS ON VALVE-PZR	VISUAL INSPECT SATISFACTORY	1	907201056	50
DEPT TOTAL								**** 50

DEPT=NDT

UNIT2▪
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTM
07/20/79	FW	PIPING	2▪RC▪E▪1A	RADIOGRAPH FW NOZZLE TO SG WELD	16' REDUCER WELD REJECT	2	906260945	557
07/20/79	FW	PIPING	2▪RC▪E▪1B	RADIOGRAPH FW NOZZLE TO SG WELD	16' REDUCER WELD REJECT	2	906260946	557
07/20/79	FW	PIPING	2▪RC▪E▪1C	RADIOGRAPH FW NOZZLE TO SG WELD	16' + 14' REDUCER WELDS REJECT	2	906260947	557
DEPT TOTAL								1671

REPORTABLE OCCURRENCES PERTAINING TO ANY OUTAGE OR POWER REDUCTIONS

JULY, 1979

None during this reporting period.

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #1

Mechanical Maintenance

DEPT=MECH

UNIT1

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTM
07/12/79	RS	HX	1-RS-E-1D	LEAK TEST HX FOR TUBE LEAK	PREPARED HX FOR AIR DROP TEST	1	906211337	498
07/12/79	EE	DIESEL	EDG1	CHROMATES LOW IN NO 1 DIESEL	ADDED CHROMATES	1	907031034	5
07/12/79	EE	DIESEL	EDG3	ADD CHROMATES TO DIESEL	ADDED CHROMATES	1	907061300	9
07/13/79	PL	PUMP	1-PL-P-3B	TRIPS ON OVERLOAD	REPAIRED PUMP	1	906212100	9
07/13/79	CC	PIPING	18-CC-227	SHIM PER ATTACHED SKETCH	INSTALLED AS PER DESIGN	1	907091415	48
07/13/79	CC	PIPING	18-CC-227	SHIM PER ATTACHED PROCEDURE-C-12	INSTALLED AS PER DESIGN	1	907091416	48
07/13/79	CC	PIPING	18-CC-237	SHIM PER ATTACHED SKETCH	INSTALLED AS PER DESIGN	1	907091417	48
07/13/79	CC	PIPING	18-CC-17	SHIM PER ATTACHED SKETCH	INSTALLED AS PER DESIGNED	1	907091418	48
07/18/79	CH	VALVE	1-CH-373	HYDROGEN GAS LEAK	STOPPED LEAK	1	907142345	1
07/21/79	CH	PUMP	1-CH-P-2A	1-CH-P-2A DOES NOT PUMP	RESET PUMP REPAIRED COUPLING	1	907200730	11
07/23/79	CH	PIPING	FE-1160	FLANGE LEAKING	REPLACED GASKETS	1	907090802	5
07/23/79	IA	VALVE		FIX WATER TRAPS	CLEANED TRAPS	1	907130229	5
07/23/79	SI	PIPING	FE-1943	FLANGE LEAK	REPAIRED FLANGE LEAK	1	907232140	4
07/24/79	RC	VALVE	1-RC-127	ADJUST OR REPACK	REPACKED VALVE	1	907192120	100
07/24/79	RS	PIPING	10-RS-4-153	REMOVE STEEL PLATE SEE ATTACHED SKET	REMOVED STEEL PLATE	1	907201135	32
07/25/79	FC	PUMP	1-FC-P-1A	BAD SEALS	REPLACE CASING WARE RINGS	1	906221407	751
07/26/79	RC	VALVE	1-RC-70	PACKING LEAK	REPACKED	1	903200745	21
07/26/79	RC	VALVE	1-RC-126	PACKING LEAK	REPACKED	1	907241457	21
07/27/79	RC	VALVE	1-RC-128	PACKING LEAK	REPACKED	1	806271310	36
07/31/79	EE	VALVE	3-EDG-14	LEAKS THRU AND PACKING LEAKS	CHECK FOR LEAK THRU FOUND NO LEAK	1	907291410	3
								1703

DEPT TOTAL

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #2

Mechanical Maintenance

DEPT=MECH

UNIT2=

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTMNTM
07/03/79	CS	VALVE	2=CS=27	REPLACE DIAPHRAGM	REPLACED ORING	2	902151428	26
07/07/79	CC	PUMP	2=CC=P=2A	REPLACE PUMP SEAL	REPLACED PUMP SEAL	2	906251850	12
07/11/79	SI	VALVE	2=SI=249	PACKING LEAK	ADJUSTED PACKING	2	811141923	26
07/11/79	CH	VALVE	2=CH=1	REPLACE DIAPHRAGM	REPLACE VALVE+DIAPHRAGM	2	902161034	306
07/11/79	CH	VALVE	2=CH=2	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161035	306
07/11/79	CH	VALVE	2=CH=3	REPLACE DIAPHRAGM	RPLACE DIAPHRAGM AND ORINGS	2	902161036	306
07/11/79	CH	VALVE	2=CH=4	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161037	306
07/11/79	CH	VALVE	2=CH=5	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161038	306
07/11/79	CH	VALVE	2=CH=6	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161039	306
07/11/79	CH	VALVE	2=CH=7	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161040	306
07/11/79	CH	VALVE	2=CH=8	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS VALVE PROGR	2	902161041	306
07/11/79	CH	VALVE	2=CH=9	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS VALVE PROGR	2	902161042	306
07/11/79	CH	VALVE	2=CH=10	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM ANDORINGS	2	902161043	306
07/11/79	CH	VALVE	2=CH=11	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161044	306
07/11/79	CH	VALVE	2=CH=12	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS VALVE PROGR	2	902161045	306
07/11/79	CH	VALVE	2=CH=13	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM ORINGS REPAIR VALV	2	902161046	306
07/11/79	CH	VALVE	2=CH=21	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161053	1298
07/11/79	CH	VALVE	2=CH=39	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161108	55
07/11/79	CH	VALVE	2=CH=40	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161109	55
07/11/79	CH	VALVE	2=CH=41	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161110	55
07/11/79	CH	VALVE	2=CH=46	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM AND ORING VALVE PR	2	902161115	30
07/11/79	CH	VALVE	2=CH=47	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS VALVE PROGR	2	902161116	30
07/11/79	CH	VALVE	2=CH=48	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM AND ORINGS VALVE P	2	902161117	30
07/11/79	CH	VALVE	2=CH=58	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161127	1323
07/11/79	CH	VALVE	2=CH=60	REPLACE DIAPHRAGM	REPLACED DIAPHRAGM	2	902161128	1323
07/12/79	CH	VALVE	2=CH=55	TIGHTEN REACH ROD AT VALVE	REPAIRED REACH ROD	2	906271517	22
07/16/79	RH	VALVE	FCV=RH=2605	REPAIR OPERATOR AND REPACK	REPAIRED LIMIT TORQUE+REPACED VALVE	2	907091427	96
07/17/79	CH	VALVE	2=CH=27	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161057	148
07/17/79	CH	VALVE	2=CH=29	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161058	148
07/17/79	CH	VALVE	2=CH=30	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM + ORINGS	2	902161059	148
07/17/79	CH	VALVE	2=CH=31	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161100	148
07/17/79	CH	VALVE	2=CH=32	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161101	148
07/17/79	CH	VALVE	2=CH=33	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161102	148
07/17/79	CH	VALVE	2=CH=34	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161103	148
07/17/79	CH	VALVE	2=CH=36	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161105	148
07/17/79	CH	VALVE	2=CH=38	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161107	149
07/19/79	RH	VALVE	2=RH=19	BODY TO BONNET LEAK	CHANGED GASKET	2	907091423	65
07/19/79	RH	VALVE	2=RH=24	BODY TO BONNET LEAK	CHANGED GASKET	2	907091425	68
07/19/79	RH	VALVE	2=RH=25	PACKING LEAK	REPACKED VALVE	2	907091426	40
07/19/79	1A	VALVE	TV=1A=201A	PACKING LEAK	TIGHTEN PACKING GLAND	2	907121036	42
07/19/79	1A	PIPING	TV=1A=201A	GASKET LEAKING ON TEST FLANGE	REPLACED GASKET	2	907121037	42
07/21/79	CH	VALVE	2=CH=14	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161047	122
07/21/79	CH	VALVE	2=CH=15	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161048	122
07/21/79	CH	VALVE	2=CH=16	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161049	122
07/21/79	CH	VALVE	2=CH=17	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161050	122
07/21/79	CH	VALVE	2=CH=50	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161119	122
07/21/79	CH	VALVE	2=CH=51	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM+ORINGS	2	902161120	122

DEPT=MECH

UNIT2▪

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MH	TOTDWNTM
07/21/79	CH	VALVE	2▪CH▪52	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161121	122
07/21/79	CH	VALVE	2▪CH▪54	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161123	122
07/23/79	CH	VALVE	2▪CH▪53	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161122	169
07/23/79	IA	VALVE		FIX WATER TRIPS	CLEANED TRAPS	2	907130226	4
07/24/79	CH	VALVE	2▪CH▪18	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161051	192
07/24/79	CH	VALVE	2▪CH▪19	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM	2	902161052	192
07/24/79	CH	VALVE	2▪CH▪49	REPLACE DIAPHRAGM	REPLACE DIAPHRAGM AND ORINGS	2	902161118	192
07/25/79	MS	VALVE	2▪MS▪80	REPACK+RESEAT+RECOND VLV	RECONDITIONED AND RESEATED VALVE	2	902250015	3512
07/25/79	MS	VALVE	2▪MS▪81	REPACK+RESEAT+RECOND VLV	REBUILT VALVE	2	902250016	3512
07/25/79	MS	VALVE	2▪MS▪152	RECONDITION+RESEAT VLV	RECONDITIONED AND RESEATED VALVE	2	902250032	3512
07/25/79	MS	VALVE	RV▪CC▪217B	REMOVE VALVE TEST AND REPAIR	TESTED VALVE OUT+TESTED	2	905101300	50
07/25/79	MS	VALVE	RV▪CC▪217A	REMOVE VALVE TEST AND REPAIR	TESTED VALVE AS REQUIRED	2	905101301	50
07/26/79	RH	VALVE	RV▪CC▪219B	REMOVE VALVE TEST AND REPAIR	TESTED RELIEF VALVE	2	905101303	76
07/26/79	CH	VALVE	HCV▪CH▪2142	VALVE LEAK THROUGH	REPAIRED VALVE	2	907061500	336
07/27/79	RM	MONITOR	2▪RM▪259	NO FLOW OR VACUUM	ADJUSTED LOOSE BELT INSTALLED NEW PU	2	907260750	144
07/28/79	RH	PIPING	3▪RH▪113▪602	RELIEF VALVE FLANGE LEAKS	RENEWED GASKET	2	907090801	69
07/28/79	RH	VALVE	RV▪RH▪2271	TEST RELIEF SETING	RENEWED GASKET+REMOVED VALVE+TESTED	2	907180749	72
07/29/79	RH	VALVE	2▪RH▪2605	REMOVE FROM SYSTEM AND OVERHAUL	INSPECTED VALVE SAT	2	907231500	93
07/30/79	RH	VALVE	HCV▪RH▪2758	PACKING LEAK	INSPECTED VALVE+REPACKED	2	907091424	144
DEPT TOTAL								22074

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #1

Electrical Maintenance

DEPT=ELEC

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTM
07/09/79	CH	HT	PNL8▪CKT21	REPLACE CONTROL THERMOSTAT	REPLACED THERMOSTAT+TESTED	1	907061055	74
07/13/79	CH	HT	PNL8▪CKT13	LOW AMP READING	REPLACED TAPE	1	907120939	22
07/20/79	VS	PMP MTR	1▪VS▪P▪1A	MOTOR TRIPPED	DISCONNECT+RECONNECTED FOR MECH+TEST	1	907160645	97
07/26/79	CH	HT	PNL8▪CKT▪17A	LOW AMP READING	REPAIRED HEAT TAPE	1	907201245	144
07/28/79	CR	OTHER	1▪CR▪1	BROKEN ELECTRICAL RAIL CONTACTS	INSTALLED NEW COLLECTOR RAIL	1	907101240	426
DEPT TOTAL								763

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #2

Electrical Maintenance

DEPT=ELEC

UNIT2▪
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTM
07/02/79	CC	INSTR	FS▪CC▪200A	FLOW SWITCH BAD	CHECK SAT	2	906290200	72
07/03/79	FP	INSTR		CHECK PRESSURE SWITCH	FOUND NO PROBLEM	2	906251800	23
07/06/79	CS	MOV	MOV▪CS▪201A	MOV PMS	COMPLETED EMP▪P▪MOV▪45	2	901251431	3504
07/06/79	CS	MOV	MOV▪CS▪201B	MOV PMS	COMPLETED EMP▪C▪MOV▪45	2	901251432	3504
07/16/79	SI	MOV	MOV▪2864A	MOV PMS	PERFORMED EMP▪C▪MOV▪45	2	901251508	3624
07/16/79	SI	MOV	MOV▪2867C	MOV PMS	PERFORMED EMP▪C▪MOV▪45	2	901251511	3624
07/16/79	SI	MOV	MOV▪2867D	MOV PMS	PERFORMED EMP▪C▪MOV▪45	2	901251512	3624
07/16/79	SI	MOV	MOV▪2869A	MOV PMS	PERFORMED EMP▪C▪MOV▪45	2	901251514	3624
07/16/79	SI	MOV	MOV▪2890A	MOV PMS	PERFORMED EMP▪C▪MOV▪45	2	901251516	3624
07/16/79	SI	MOV	MOV▪2890B	MOV PMS	PERFORMED EMP▪P▪MOV▪45	2	901251517	3624
07/20/79	SI	MOV	MOV▪2890C	MOV PMS	PERFORM PM ON MOV	2	901251518	3720
07/24/79	EPDC	CHARGER	2D2	INSULATION BROKE DOWN	REWIRED REPLACED REGULATOR+TESTED	2	907141840	144
07/29/79	EPDC	CHARGER	2D2	BURNT UP REPAIR	CHARGER REPAIRED BY REPLACING DIODE	2	907241930	96

DEPT TOTAL								32807

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #1

Instrument Maintenance

DEPT=INST

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

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTDWNTM
07/10/79	BR	INSTR	LI-BR-114	NOT READING PROPERLY	CALIBRATED AND TIGHTENED ALL FITTING	1	907050325	98
07/11/79	CH	INSTR	FT-1110	NO FLOW INDICATION	REPLACED BAD OUTPUT MODULE	1	907070300	42
07/13/79	CH	VALVE	FCV-CH-114A	FCV ALLOWS FLOW INT BLENDER VLV SHUT	ADJUSTED ZERO FT-1-114	1	906120222	744
07/13/79	CH	INSTR	FT1 110	NOT INDICATING	REPLACED CONVERTER	1	907110010	48
07/13/79	BR	INSTR	LT-BR-114	LEVEL INDICATION READS LOW	FIXED AIR LEAKS	1	907111545	6
07/19/79	RM	MONITOR	RI-SW-120	SPIKES TO ALERT+HI SETPOINTS	REPLACED PM TUBE IN DETECTOR	1	907170621	48
07/20/79	NI	MISC	NR-1+47	CHANNEL 4 PEN HANGS UP	OILED MOTOR GEARS	1	907180100	30
07/25/79	NI	MISC	NR-45	NR-45 DOES NOT OPERATE PROPERLY	REPLACED MOTOR AND CLUTCH	1	907221553	54
07/27/79	RM	INSTR	RI-RMS-162	MONITOR GIVES CONFLICTING INDICATION	INSTALLED NEW MOTOR	1	907270200	6
07/28/79	CH	INSTR	PI-1153	GUAGE NEEDS TO BE CALIBRATED	INSTALLED NEW GAUGE	1	904202145	312
								******
DEPT TOTAL								1389

Maintenance of Safety Related Systems During Outage or Reduced Power Periods

UNIT #2

Instrument Maintenance

DEPT=INST

UNIT2▪
(MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS)

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	U	MR	TOTIWNTM
07/26/79	CH	INSTR	PI2153	DISCHARGE GAGE	INSTALLED NEW GAUGE	2	903011010	3528
07/26/79	CH	INSTR	PI▪2151	DISCHARGE GAGE READS HIGH	INSTALLED NEW GAUGE	2	903120658	1032
07/27/79	CH	INSTR	PI▪1104	LOW PRESS INDICATION	INSTALLED NEW GAUGE	2	907080445	436
DEPT TOTAL								4996

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 10CCR20.

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

JULY, 1979

There were none during this operating period.