VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 83-10

APPROVED BY: _____
STATION MANAGER

IE24

OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 07 NOV 83
COMPLETED BY Vivian Jones
TELEPHONE 804-357-3184

OPERATING STATUS

1.	UNIT NAME	SURRY UNIT 1
2.	REPORTING PERIOD	100183 TO 103183
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 (NET MWE)	N/A
10.	REASONS FOR RESTRICTIONS, IF ANY	N/A

NOTES

		THIS MONTH	YR-TO-DATE	CUMULATIVE
11.	HOURS IN REPORTING PERIOD	745.0	7296.0	95184.0
12.	NUMBER OF HOURS REACTOR WAS CRITICAL	653.3	3871.3	57783.0
13.	REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3765.2
14.	HOURS GENERATOR ON-LINE	641.2	3729.1	56583.8
15.	UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16.	GROSS THERMAL ENERGY GENERATED (MWH)	1450963.3	8662283.2	131342883.1
17.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	456400.0	2740120.0	42346163.0
18.	NET ELECTRICAL ENERGY GENERATED (MWH)	431417.0	2592960.0	40153423.0
19.	UNIT SERVICE FACTOR	86.1 •/•	51.1 •/•	59.4 •/•
20.	UNIT AVAILABILITY FACTOR	86.1 •/•	51.1 •/•	63.4 •/•
21.	UNIT CAPACITY FACTOR (USING MDC NET)	74.7 •/•	45.9 •/•	54.4 •/•
22.	UNIT CAPACITY FACTOR (USING DER NET)	73.5 •/•	45.1 •/•	53.5 •/•
23.	UNIT FORCED OUTAGE RATE	1.7 •/•	1.1 •/•	21.8 •/•
24.	SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE,DATE,AND DURATION OF EACH)	SPRING MAINTENANCE- Snubber Inspection 02-24-84 - 10 DAYS		

		FORECAST	ACHIEVED
25.	IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE DATE OF STARTUP		
26.	UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION)		
	INITIAL CRITICALITY		
	INITIAL ELECTRICITY		
	COMMERCIAL OPERATION		

OPERATING DATA REPORT

DOCKET NO. 50-281
DATE 07 NOV 83
COMPLETED BY Vivian Jones
TELEPHONE 804-357-3184

OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2	
2. REPORTING PERIOD	100183 TO 103183	
3. LICENSED THERMAL POWER (MWT)	2441	NOTES
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 (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	92064.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	676.7	4896.4	57570.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	651.8	4762.4	56606.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1538052.5	11283045.2	132524391.3
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	493820.0	3603110.0	43085829.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	467806.0	3414838.0	40835759.0
19. UNIT SERVICE FACTOR	87.4 %	65.3 %	61.5 %
20. UNIT AVAILABILITY FACTOR	87.4 %	65.3 %	61.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	81.0 %	60.4 %	57.2 %
22. UNIT CAPACITY FACTOR (USING DER NET)	79.7 %	59.4 %	56.3 %
23. UNIT FORCED OUTAGE RATE	6.2 %	2.5 %	14.4 %

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH) SPRING MAINTENANCE 03-16-84

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 November 4, 1983
COMPLETED BY Vivian H. Jones
TELEPHONE EXT. 477

REPORT MONTH October

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
83-15	9-21-83	S	92.5	H	1				Unit was shut down for snubber inspection and fall outage
83-16	10-04-83	F	3.9	A	3				Reactor trip caused by high S/G level during startup
83-17	10-05-83	F	7.4	G	3				Reactor trip caused by intermediate range high flux trip due to power surge thru P-10. P-10 was not blocked.
83-18	10-07-83	S	0.0	H	1				Reactor power was reduced to 56% - load following
83-19	10-18-83	S	0.0	A	1				Reactor power was reduced to 72% to remove HPD pumps from service to replace expansion joint in 1-SD-P-1A.

-3-

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

DOCKET NO. 50-281
UNIT NAME Surry II
DATE November 4, 1983
COMPLETED BY Vivian H. Jones
TELEPHONE EXT. 477

REPORT MONTH October

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
83-15	10-05-83	F	9.2	G	3				Reactor trip caused by generator differential lockout, voltage regulator was driven toolow, will be adjusted during next outage to reset stops on regulator.
83-16	10-06-83	S	0.0	H	1				Reactor power was reduced to 70% - load following
83-17	10-07-83	S	0.0	H	1				Reactor power was reduced to 73%, removed both HP drain pumps from service to repair leaks.
83-18	10-11-83	F	0.0	A	1	83-049/03L0	RB	CONROD	Dropped rod, turbine runback to 70% power. Reason for dropped rod not determined.
83-19	10-11-83	F	28.2	G	3				Reactor trip caused by "A" S/G high level trip, operator sent to override "B" S/G FRV open but overrode "A" S/G FRV instead causing trip.

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

[5] Exhibit I - Same Source

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-281
UNIT NAME Surry II
DATE November 4, 1983
COMPLETED BY Vivian H. Jones
TELEPHONE EXT. 477

REPORT MONTH October

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
83-20	10-12-83	F	5.3	A	3				Reactor trip on "C" S/G high level during startup.
83-21	10-28-83	S	50.5	H	1				Reactor shutdown to repair HPD pump suction expansion joints.

-5-

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

(9/77)

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. ____ MONTH: _____

DATE	TIME	HOURS	LOAD, MW	REDUCTIONS, MW	MWH	REASON

NONE DURING THIS REPORTING PERIOD.

MONTHLY TOTAL

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. MONTH: _____

DATE	TIME	HOURS	LOAD, MW	REDUCTIONS, MW	MWH	REASON

NONE DURING THIS REPORTING PERIOD.

MONTHLY TOTAL

DOCKET NO 50-280
UNIT SURRY I
DATE 11-1-83
COMPLETED BY Vivian H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: OCTOBER 83

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	17	742.2
2	0.0	18	713.5
3	0.0	19	510.3
4	0.0	20	510.1
5	330.4	21	509.8
6	728.8	22	510.7
7	658.7	23	509.4
8	728.6	24	508.3
9	737.6	25	594.6
10	740.0	26	742.8
11	739.8	27	746.3
12	729.8	28	746.3
13	738.4	29	743.0
14	743.7	30	772.0
15	747.8	31	743.1
16	743.0		

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 11-1-83
COMPLETED BY Vivian H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: OCTOBER 83

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	697.0	17	739.0
2	724.8	18	739.3
3	728.6	19	676.8
4	732.1	20	743.0
5	672.5	21	748.3
6	405.7	22	749.6
7	563.0	23	750.6
8	720.3	24	749.0
9	731.1	25	749.2
10	732.8	26	749.2
11	531.9	27	751.7
12	0.0	28	700.1
13	523.9	29	0.0
14	736.8	30	0.0
15	737.3	31	597.8
16	740.2		

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 o/o 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, 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

10-01-83	0000	This reporting period begins with the plant at < 200°F for fall outage.
10-02-83	1230	RCS > 200°F
	1917	RCS > 350°F, 450 psig
10-03-83	0947	R_X critical
	1032	R_X shutdown due to hydrogen leak on main generator
10-04-83	1456	R_X critical
	2024	Generator on the line
	2027	R_X trip caused by "C" S/G high level during startup
	2241	R_X critical
10-05-83	0023	Generator on the line
	0029	R_X trip caused by intermediate range high flux trip due to power surge thru P-10.
	0245	R_X critical
	0755	Generator on the line, commenced power increase
	1018	Holding at 62% power due to polish. bldg. high Delta P
	1314	Commenced power increase
	1321	Holding at 70% power to run calometric and polish. bldg. high Delta P
	2220	Commenced power increase
10-06-83	0130	R_X at 100% power
10-07-83	0030	Commenced rampdown - load following
	0300	Stopped ramp at 56% power
	0445	Commenced power increase
	0800	R_X at 100% power
10-15-83	2100	While valving in 1-SD-P-1A, the expansion joint blew, fatally injuring Wayne Jones
10-18-83	2030	Commenced rampdown to remove HP pumps from service
	2140	Holding R_X power at 72%, secured 1-SD-P-1B
10-25-83	1140	Commenced power increase, 1-SD-P-1B running
	2200	R_X at 100% power
10-31-83	2400	This reporting period ends with the unit at 100% power

UNIT TWO

10-01-83	0000	This reporting period begins with the R_X at 83% power and increasing at 3%/hr.
	0448	Holding power at 95%, commenced the annual emergency drill
	1413	Secured from emergency drill, commenced power increase
	1700	Unit at 100% power
10-05-83	2203	R_X trip on generator differential lockout
10-06-83	0409	R_X critical
	0715	Generator on the line
	2347	Commenced rampdown - load following
10-07-83	0110	Holding at 70% power
	0643	Commenced power increase
	0759	Holding at 90% power
	0853	Commenced rampdown due to securing 2-SD-P-1A, polish bldg. AOV partially open
	0958	Holding at 73% power, AOV is closed
	2120	Commenced power increase, 2-SD-P-1A running
	2207	Stopped ramp at 95% power due to possible flux tilt
10-08-83	0215	Commenced power increase
	0550	R_X at 100% power
10-11-83	1718	Dropped rod, turbine runback
	1733	R_X trip caused by "A" S/G high level trip
	1944	R_X critical
	2207	Dropped rods B-6 and P-10
	2209	Dropped rods K-2, F-14, all rods from "A" control bank
	2213	R_X shutdown
10-12-83	1945	R_X critical
	2141	Generator on the line
	2149	R_X trip due to "C" S/G high level on startup
	2350	R_X critical
10-13-83	0259	Generator on the line, commenced power increase
	0608	Holding at 70% power for calormetric
	1005	Commenced power increase
10-13-83	1500	Reactor at 100% power
10-28-83	2000	Commenced plant shutdown to repair HPD pump suction expansion joints.
	2354	Generator off the line
	2358	R_X shutdown
10-30-83	1128	R_X critical

10-31-83	0224	Generator on the line, commenced power increase
	0550	Stopped ramp at 70% for calormetric
	0608	Commenced power increase
	0854	R_X at 100% power
	2400	This reporting period ends with the unit at 100% power

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

NONE DURING THIS REPORTING PERIOD.

FACILITY CHANGES REQUIRING NRC APPROVAL

NONE DURING THIS REPORTING PERIOD.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

NONE DURING THIS REPORTING PERIOD.

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

October 19 83

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., µCi/ml	$1.66E^{0}$	$4.29E^{-3}$	$7.93E^{-1}$	$1.06E^{0}$	$8.39E^{-3}$	$1.44E^{-1}$
Suspened Solids, ppm	0.0	0.0	0.0	0.0	0.0	0.0
Gross Tritium, µCi/ml	$1.05E^{-1}$	$2.46E^{-2}$	$6.51E^{-2}$	$1.35E^{-1}$	$4.45E^{-2}$	$9.13E^{-2}$
Iodine^{131}, µCi/ml	$7.68E^{-2}$	$6.67E^{-4}$	$4.15E^{-2}$	$6.54E^{-4}$	$1.63E^{-5}$	$1.19E^{-4}$
I^{131}/I^{133}	1.22	.43	.77	.24	.24	.24
Hydrogen, cc/kg	53.4(A)	7.6(B)	30.3	57.2(A)	25.6	37.9
Lithium, ppm (C)	2.00	1.14	1.34	2.20	1.35	1.69
Boron-10, ppm*	283	110	162	236	155	182
Oxygen, (D.O.),ppm	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloride, ppm	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02
pH @ 25°C	6.79	6.20	6.63	6.71	6.39	6.56

* Boron-10 = Total Boron x 0.196

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

Phosphate	–	Boron	794
Sulfate	–	Chromate	0.0
50% NaOH	–	Chlorine	0.0

REMARKS: (A). Operations notified; Chemistry recommended decrease in VCT pressure. (B). Unit start-up. Operations notified; Chemistry recommended increase in VCT pressure. (C). Lithium additions made to Unit 1: 560 gms. 10/1; 325 gms. 10/3; 450 gms. 10/4; 300 gms. 10/5. Additions to Unit 2: 900 gms. 10/12; 1050 gms. 10/29; 480 gms. 10/30. Cation Bed placed in service for Lithium removal Unit 1: 10/9, 10/10, 10/11, 10/12, 10/13, 10/15, 10/17, 10/18, 10/22, 10,24, 10/27, & 10/28. Lithium removal Unit 2: 10/10, 10/15, 10/16, 10/21, 10/23, 10/24, 10/25, & 10/30. (D). The levels of these chemicals should produce no adverse environmental impact.

DESCRIPTION OF ALL INSTANCES WHERE THERMAL DISCHARGE LIMITS WERE EXCEEDED

NONE DURING THIS REPORTING PERIOD.

FUEL HANDLING

(UNIT 1)

October, 1983

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

FUEL HANDLING

(UNIT II)
October, 1983

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

PROCEDURE REVISIONS THAT CHANGED THE OPERATING MODE DESCRIBED IN THE FSAR

NONE DURING THIS REPORTING PERIOD.

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

NONE DURING THIS REPORTING PERIOD.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

MECHANICAL MAINTENANCE

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

DEPT: MECH

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
10/02/83	RC	VALVE	1-RC-50	PACKING LEAK	TIGHTENED PACKING	306160704
10/02/83	RH	VALVE	HCV-1605	VALVE HAS PACKING LEAK TIGHTEN	TIGHTENING PACKING	306160658
10/02/83	RC	VALVE	1-RC-103	PACKING LEAK	ADJUST PACKING	306272315
10/02/83	RC	VALVE	1-RC-77	PACKING LEAK	ADJUSTED PACKING	306272314
10/02/83	CH	VALVE	1-CH-413	VALVE LEAKS THROUGH	TIGHTENING EXISTING PIPE CAP	307070330
10/02/83	RC	VALV	1-RC-11		ADJUST PACKING	309211150
10/04/83	RH	VALV	1-RH-1700	REPACK VALVE	REPACKED VALVE	309201251
10/04/83	SS	VALVE	HCV-SS-102B	VALVE WILL NOT STROKE	REPLACED GASKET	305160700
10/04/83	RC	VALVE	1-RC-31	PACKING LEAK	TIGHTENED PACKING	309300915
10/04/83	SI	VALVE	1-SI-79	CHECK VALVE	TIGHTENED BONNET	309300335
10/04/83	CH	VALVE	HCV-1-310	VALVE HAS BODY TO BONNET LEAK	TORQUE BONNET	309302010
10/04/83	BD	VALVE	TV-BD-100A	VALVE HAS PACKING LEAK	TIGHTENED PACKING	309302000
10/04/83	SI	VALVE	1-SI-73	TORQUE BONNET TO STOP LEAK	TORQUE BONNET	310021949
10/04/83	BD	VALVE	1-BD-24	PACKING LEAK	TIGHTEN PACKING	310021948
10/04/83	VS	CHILLER	1-VS-E-4A	REPLACE ZINC PLUG	REPLACED ZINC PLUG	310021037
10/07/83	DA	VALVE	1-DA-53	INSTALL CHECK VLV INTER	REPLACE VALVE	305041948
10/07/83	DA	VALVE	1-DA-51	INSTALL CHECK VLV INTER	REPLACED VALVE	305041947
10/07/83	FW	MOV	MOV-FW-154B	VALVE LEAKS BY SEAT BADLY	ADJUSTED	310032321
10/07/83	FW	FCV	FCV-1-488	VALVE LEAKS BY SEAT BADLY	ADJUSTED	310032320
10/07/83	FW	VALVE	FCV-1498	VALVE LEAKS THRU	ADJUSTED	310032131
10/07/83	FW	VALVE	FCV-1478	VALVE LEAKS THRU	ADJUSTED	310032130
10/07/83	VS	FAN	1-VS-F-1B	REPLACE FAN BLADES	REPLACED BLADES	309291450
10/07/83	CH	PIPING	1-CH-78	FLANGE GASKET LEAK	REPLACED GASKET	309291034
10/07/83	VS	DUCT	N/A	CUT+REMOVE SHROUD COOLING DUCT	CUT OUT DUCT AND REWELDED DUCT	309260736
10/07/83	VS	DUCT	N/A	CUT+REMOVE SHROUD COOLING	CUT ELBOW OUT	309251715
10/19/83	VS	LINKAGE	1-VS-F-60A	INTERNAL LINKAGE BROKEN	TACK WELDED DAMPER	309300831
10/19/83	VS	CONTROL	1-VS-F-60E	DAMPER LINKAAGE BROKEN	TACK WELDED DAMPER	309302100
10/19/83	SW	INSTR	PI-SW-101A	CLEAN INDICATOR SIGHTGLASS	CLEANED SIGHT GLASS	310171059
10/19/83	PG	VALVE	N/A	REPLACE OR REPAIR VALVE TO 1-IA-C-4A	REPLACED VALVE	301291146
10/22/83	CV	PUMP	1-CV-P-1A	REPLACE VAC PUMP	CHANGED OUT PUMP	310211990
10/22/83	CH	VALVE	1-CH-289	ADJ PACKING 1-CH-289	ADJUSTED PACKING	310230415
10/24/83	EE	COMPRESS	N/A	BRACKET IS BROKE	REPAIRED GUARD	310220193
10/24/83	GW	PIPING	1-GW-32	NIPPLE NEEDS RETHREADING	RETRACE THREADS	310211115
10/24/83	MS	PIPING	1-MS-125	PINHOLE LEAKS	PURMANITED	310080653
10/24/83	GW	FILTER	1-GW-FL-1A	REPLACE FILTERS	REPLACED HEPA AND CHARCOAL FILTERS	310071517
10/24/83	GW	FILTER	1-GW-FL-1B	REPLACE FILTERS	REPLACED FILTERS	310071516
10/24/83	SW	VALVE	1-SW-113	CHECK VALVE LEAKS	RENEWD VALVE+STUDS	309301077
10/24/83	HSS	SNUBBER	1-WGCR-HSS-12	REPLACE SNUBBER	REMOVED AND REPLACED SNUBBER	309271648
10/24/83	HSS	SNUBBER	N/A	FILL+PURGE SYSTEM SNUBBERS	PURGE "C" S/G UPPER SUPPORT PATHOMS	309270750
10/24/83	HSS	SNSU	1-CH-HSS-302	REPLACE SNUBBER	REPLACED SNUBBER	309211350
10/24/83	HSS	SNUB	1-CH-HSS-302	OHAUL+INSPECT FOR FAILURE	FOUND SCRATCHES+ROUGH AREAS	309230900

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

DEPT: MECH

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WXPERF	MR
10/24/83	CH	PUMP	1-CH-P-2B	INSPECT PUMP/MOTOR	INSPECTED COUPLING	309181202
10/24/83	HSS	SNUBBER	N/A	PREFORM VISUAL INSPECTION	PERFORMED PT ON AS LEFT SNUBBER	309111003
10/24/83	HSS	SNUBBER	N/A	PERFORM VISUAL INSPECTION	PERFORMED VISUAL INSPECTION	309111002
10/24/83	HSS	SNUBBER	N/A	PREFORM VISUAL INSPECTION	PERFORMED PT AS LEFT	309111001
10/24/83	HSS	SNUBBER	N/A	PREFORM VISUAL INSPECTION	PERFORMED VISUAL INSPECTION	309121000
10/24/83	MS	SNUB	1-SHP-HSS-1B	SNUBBER IS AGAINST MOUNT BRACKET	SUPPORT CHANGED	309201325

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

MECHANICAL MAINTENANCE

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

DEPT: MECH

RETSERVIT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
10/06/83	CH	FILTER	2-CH-FL-5	REPLACE LETDOWN FILTER HIGH DP	REPLACED FILTER	203290254
10/06/83	FW	VALVE	2-FW-136	VALVE LEAKING	SEALED WELDED PLUGS TO VALVE BODY	309062204
10/06/83	RC	VALV	2-RC-159	VALVE HAS SEAT LEAKAGE	INSTALLED BLANK FLANGE	309211106
10/06/83	RC	MANW	N/A	TORQUE MANWAY LEAKS	RETORQUED BOLTS TO	309181530
10/06/83	CH	FILTER	2-CH-FL-4A	CHANGE OUT MEDIA	CHANGED FILTER	308301340
10/06/83	RC	STUDS	N/A	DETENSION AND TENSION RX STUDS	DETENSIONED*RETENSIONED RX STUDS	306090648
10/06/83	RS	HX	2-RS-E-1A	REMOVE UPPER STRONGBACK	CLEANED HX	306081343
10/07/83	RC	GENER	2-RC-E-1C	REMOVE BROKEN STUDS	DISINTERGRATED BOLTS	307281530
10/07/83	CH	PUMP	2-CH-P-1C	DISCHARGE PRESSURE FITTING LEAKS	TIGHTENED FITTING	309270631
10/07/83	RS	VALVE	MOV-RS-255A	LEAKS BY SEAT ADJUST STROKE	ADJUSTED LIMIT	309302200
10/07/83	RS	VALVE	MOV-RS-255B	LEAKS BY SEAT ADJUST STROKE	ADJUSTED LIMIT	309302201
10/07/83	EE	MOTORS	N/A	AIR STARTING MOTORS ON NO 2 EDG	REPLACED STARTER	310040632
10/11/83	CH	PIPING	2-CH-298	FITTING DOWNSTRM OF 2-CH-298 LEAKS	REPLACED THREADED FITTING	309281325
10/11/83	CS	VALV	2-CS-66	VALVE LEAKS BY EXCESSIVELY	LAPPED SEAT	309201625
10/11/83	CH	PIPING	2-CH-299	PIPING FITTING NEEDS TO BE WELDED	REPLACED THREADED FITTING AND WELD	309201844
10/12/83	CH	PUMP	2-CH-P-1B	REPAIR SEAL LEAK	REPAIRED SEAL LEAK	310111202
10/13/83	CH	VALVE	2-CH-294	PACKING LEAK ADJUST	ADJ PACKING	310082251
10/13/83	SI	VALVE	2-SI-17	PACKING LEAK ADJUST	TIGHTEN PACKING GLAND	310081902
10/13/83	FW	PUMP	2-FW-P-2	HIGH BEARING VIBRATIONS	ADJUSTED LINKAGE	309271700
10/13/83	CH	MOV	MOV-2370	PACKING LEAK ADJUST	TIGHTENED PACKING GLAND NUTS	310071621
10/13/83	RD	SUPPORT	N/A	SEISMIC SUPPORT LOOSE	ADJUSTED SUPPORT	310071540
10/13/83	DA	VALVE	TV-DA-200A	VALVE HAS EXCESSIVE LEAKAGE	GRIND PLUG AND SEAT AS NEEDED	307180931
10/13/83	RC	CONOSEAL	N/A	REMOVE * INSTALL INSTR PORT CONOS	REMOVED AND INSTALLED INSTRUMENT	306081347
10/31/83	MS	VALVE	SOV-MS-202B	OVERHAUL LEAKS THROUGH	OVERHAUL INTERNALS	306221321
10/31/83	MS	VALVE	SOV-MS-202A	OVERHAUL LEAKS THROUGH	OVERHAUL INTERNALS	306221320
10/31/83	EE	GLASS	LI-EE-102	CLEAN OR RPLACE LEVEL GLASS	REPLACED SIGHT GLASS	310220925
10/31/83	CH	VALVE	2-CH-285	ADJ PACKING 2-CH-285	ADJUSTED PACKING	310230440
10/31/83	CH	VALVE	2-CH-280	ADJ PACKING 2-CH-280	ADJUSTED PACKING	310230434
10/31/83	CH	VALVE	2-CH-281	ADJ PACKING 2-CH-281	ADJUSTED PACKING	310230439
10/31/83	CH	VALVE	2-CH-289	ADJ PACKING 2-CH-289	ADJUSTED PACKING	310230437
10/31/83	FW	VALVE	FCV-2478	TIGHTEN LOCKING DEVICE	CHECKED LOCKING DEVICE-TIGHT	310280706
10/31/83	SW	HX	2-CH-E-5B	SW LINE TO HX LEAKING	REPLACED NIPPLE	310270605
10/31/83	CH	PUMP	2-CH-P-1C	REPLACE OIL*REPAIR OUTBD BEARING	REPLACED OIL SEALS	310262006

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

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

DEPT: ELEC

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
10/02/83	RI	ANNUN	D-H-8	WILL NOT CLEAR	ALARM CLEAR AND TESTED	309271157
10/07/83	CH	XMITTER	1-FT-113	HEAT TRACING CUT AT XMITTER	CIRCUIT AND RTD REPLACED	310071627
10/19/83	SW	MOV	1-SW-MOV-103D	INCREAS TORQUE SWITCH	CHANGED OPEN TORQUE SETTING TO 4.5	309300937
10/19/83	SW	MOV	1-SW-MOV-103C	INCREASE TORQUE SWITCH	CHANGED OPEN TORQUE SETTING TO 4.5	309300936
10/19/83	SW	MOV	1-SW-MOV-103B	INCREASE TORQUE SWITCH	CHANGED TORQUE SETTING TO 4.5	309300935
10/19/83	SW	MOV	1-SW-MOV-103A	INCREASE TORQUE SWITCH	CHANGED OPEN TORQUE SETTING TO 4.5	309300934
10/19/83	VS	FAN	1-VS-F-60E	FAN TRIPPED	REPLACED MOTOR TESTED SAT	309120904
10/20/83	EE	DIES	N/A	REPLACE SPEED SENSOR RELAY		

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

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

DEPT: ELEC

RETJFMVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
10/06/83	EVCR	CRDM	N/A	INSPECT * REPAIR CRDM	INSPECTED AND REPAIRED	307120830
10/06/83	FW	MOTO	2-FW-P-3A	REPAIR OR REPLACE MOTOR HEATER	REPLACED HEATER	309211500
10/07/83	BD	VALVE	TV-BD-200B	VALVE FULLY CLOSED	VALVE CHECKED ELECT	310052250
10/11/83	SI	HCV	HCV-1851C	VALVE LEAKS THRU	REPLACE SOV TEST SAT	309281300
10/12/83	CS	MOV	MOV-CS-203D	ADJ. LIMITS	ADJUST LIMITS AND TEST VALVE	310051053
10/12/83	CS	MOV	MOV-CS-203C	ADJ. LIMITS	ADJUST LIMITS AND TEST VALVE	310051052
10/12/83	CS	MOV	MOV-CS-203B	ADJ. LIMITS	ADJUST LIMITS AND TEST VALVE	310051051
10/12/83	CS	MOV	MOV-CS-203A	ADJ. LIMITS	ADJUST LIMITS ACCORDING TO MOVAT	310051050
10/12/83	RI	ALARM	FF2	FF2 FIRST OUT DOES NOT LOCK IN	NO PROBLEM	310050827
10/12/83	RS	MOV	RS-255B	ADJUST LIMITS	ADJUST LIMITS TEST SAT	310050816
10/12/83	FW	RELAY	2-FW-P-3A	REPLACE 2-FW-P-3A RELAY	REPLACED RELAY COIL FAILED	310060105
10/12/83	RS	VALVE	RS-255A+B	ADJUST LIMITS RS-255AA+B	ADJUST LIMITS VLV VCYCLED SAT	310010108
10/12/83	EPDC	BATT	2A	REPLACE EXISTING BATTERY	REPLACED EXISTING BATTERIES	308200736
10/13/83	SI	BREAKER	24H3	PERFORM PMS	PERFORMED PMS SI-CB-E/R1	306241320
10/13/83	SI	BREAKER	24J3	PERFORM PMSS	PERFORMED PMS SI-CB-E/R-R/1	306241314
10/29/83	CH	VALVE	LCV-2460A	VALVE FAILED TO CLOSED	MANUALLY OPENED+CLOSED OK	310290630
10/30/83	FW	SWITCH	FCV-2498	SET LIMIT SWITCHES	ADJ LIMITS+CYCLED VALVE-SAT	310300820
10/30/83	FW	SWITCH	FCV-2478	SET LIMIT SWITCHES	ADJ LIMITS+CYCLED VALVE-SAT	310300822
10/30/83	FW	SWITCH	FCV-2488	SET LIMIT SWITCHES	ADJ LIMITS+CYCLED VALVE-SAT	310300821
10/30/83	CH	PANEL	HTP 10	REPLACE MISSING LIGHT BULBS	REPLACED BULBS	307140032
10/30/83	CH	PANEL	HTP 11	REPLACE MISSING LIGHT BULBS	REPLACED BULBS	307140033

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

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

DEPT: INST

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
10/03/83	MM	RECORDER	N/A	RECORDER DOES NOT WORK	INSTALLED NEW UP-10 CARD	307191651
10/03/83	MM	RECORDER	N/A	RECORDER DOES NOT WORK	INSTALLED NEW P-10	307191650
10/19/83	CS	INSTR	LI-1-101	LO LEV ALARM LOCKED IN	CLEARED ALARM	310112323
10/19/83	MM	MONITOR	RM-CC-106	ALARM SETPOINT IS GREATER	ADJUSTED ALARM SETPOINT	310140245
10/20/83	RC	MONITOR	SCI-RC-100A	FAILED LOW	RESEATED CRT BDS	310120750
10/20/83	CS	INSTR	FT-CS-103	LOCAL INDICATOR CHECKED BAD	CALIBRATED INSTALLED LOCAL IND	310110147
10/20/83	RC	MONITOR	SCI-RC-100A	A CORE COUPLING MONITOR FAILED	CLEANED CONTACTS	310101515
10/20/83	FW	XMTR	N/A	C S/G CH II LEVEL FAILED LOW	REPLACED	303301445
10/21/83	SW	SWITCH	1-SW-P-10A	PMP AUTO STARTS+LOW PRESS ALARM ANN	CHECKED+ADJUSTED PRESSURE SWITCH	310090829
10/21/83	RM	METER	RM-153	ERRAT WHEN PLACED10(2) POSI	NO WORK PERFORMED	306061228
10/21/83	SW	INDICAT	1-SW-P-1C	CALIB RPM INDICATOR	INSTALLED NEW METOMETER AND ADAPTER	306011514
10/25/83	CC	CONTROL	LC-CC-1C1	LEVEL CONTROL VLV DID NOT OPEN	CLEANED AIT CAGE+FLUSHED	310240618

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

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

DEPT: INST

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	WKPERF	MR
10/06/83	CV	SWIT	N/A	SWITCH IS BROKEN	MANUAL MODE TEST SAT	309201720
10/06/83	MS	METER	F2-474	INDICATORS AT LOW POWER LEVELS	NO SIGNIFICANT DIFFER	309071935
10/06/83	FW	COMPARAT	FC-2-478C	NO FLOW	REPLACED FUSE	309272301
10/06/83	IC	DETECTOR	N/A	REPLACE DEFECTIVE DETECTOR A	REPLACED A INCORE DETECTOR	309281001
10/06/83	MS	INSTR	YI-VMS-200C	ALARM BAR FLASHING	INCREASED SENSITIVITY	310040014
10/06/83	MS	INSTR	PI-201C	NO INDICAT ON STM GEN PRESS IND.	UNISOLATED TRANSMITTER	309260731
10/06/83	CH	INSTR	FC-2113A	CONTROL DOES NOT MODULATE FLOW	REPLACED CONTROLLER+CALIBRATED	309231345
10/12/83	SI	INSTR	LI-SI-290	CHANNEL NEEDS TO BE CALIBRATE	PT2.1B L-920	310040958
10/12/83	RC	INSTR	TI-2422A	AT CHANNEL 2B READS HIGH	REPLACED COMPARATOR	310081118
10/12/83	SI	INSTR	LI-SI-922	CHANNEL NEEDS TO BE CALIBRATED	ADJUSTED INDICATOR	310040959

HEALTH PHYSICS

NONE DURING THIS REPORTING PERIOD.

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

OCTOBER, 1983

NO.	UNIT	TITLE	DATE DEVIATED	DATE REV BY SNSOC
OP 1.1	1	Unit Startup Operation (Solid Plant Operation)	9-28-83	10-14-83
OP 2.1	1	Unit Power Operation	10-04-83	10-20-83
OP 6.2	1,2	NO. 3 EDG	9-20-83	10-14-83
MOP 63	2	RWST Special Sample Program	10-10-83	10-27-83
IMP-C-IFM-20	1,2	Replacing Incore Flux Mapping Detector	9-28-83	10-27-83
PT 7	2	Full Length Control Rod Assembly Drop Time	10-12-83	10-27-83
PT 53.1	1	ASME System Pressure Tests	9-28-83	10-14-83

OPERATING DATA REPORT

Corrected Copy

DOCKET NO. 50-280
DATE 06 OCT 83
COMPLETED BY Vivian Jones
TELEPHONE 804-357-3184

OPERATING STATUS

1.	UNIT NAME	SURRY UNIT 1
2.	REPORTING PERIOD	90183 TO 93083
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 (NET MWE)	N/A
10.	REASONS FOR RESTRICTIONS, IF ANY	N/A

NOTES

		THIS MONTH	YR-TO-DATE	CUMULATIVE
11.	HOURS IN REPORTING PERIOD	720.0	6551.0	94439.0
12.	NUMBER OF HOURS REACTOR WAS CRITICAL	478.6	3218.0	57129.7
13.	REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3765.2
14.	HOURS GENERATOR ON-LINE	472.8	3087.9	55942.6
15.	UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16.	GROSS THERMAL ENERGY GENERATED (MWH)	1132999.9	7211317.9	129891917.8
17.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	357880.0	2283720.0	41889763.0
18.	NET ELECTRICAL ENERGY GENERATED (MWH)	339040.0	2161543.0	39722006.0
19.	UNIT SERVICE FACTOR	65.7 o/o	47.1 o/o	59.2 o/o
20.	UNIT AVAILABILITY FACTOR	65.7 o/o	47.1 o/o	63.2 o/o
21.	UNIT CAPACITY FACTOR (USING MDC NET)	60.8 o/o	42.6 o/o	54.3 o/o
22.	UNIT CAPACITY FACTOR (USING DER NET)	59.8 o/o	41.9 o/o	53.4 o/o
23.	UNIT FORCED OUTAGE RATE	2.2 o/o	1.0 o/o	22.0 o/o
24.	SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE,DATE,AND DURATION OF EACH)	SPRING MAINTENANCE-10 DAYS-04-13-83		

N

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		

Corrected Copy

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September, 1983

DOCKET NO. 50-280
UNIT NAME Surry II
DATE September, 1983
COMPLETED BY Vivian Jones
TELEPHONE 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	648.0	A	3				Continuation of shutdown for refueling which commenced 06-30-83.
83-14	9-28-83	S	23.0	A	3				Reactor trip caused by a high level in "B" steam generator during plant startup. Problem was caused by feed regulating bypass valves not working properly, had to be re-adjusted.

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

(9/77)

UNIT

DC 80-98A CVCS Heat Tracing Modification 2

This design change provides a diesel-backed redundant heat tracing system for portions of the Chemical and Volume Control System containing Boric Acid.

Summary of Safety Analysis

The modification provides a more reliable and accurate means of monitoring CVCS temperature. The diesel-backed redundant heat tracing will provide a continuous standby power source which will automatically provide heating upon loss of primary system.

DC 81-33 VCT Redundant Indication 2

This design change added a redundant Volume Control Tank level indicator to the control room. The second level indicator in the control room will enable the operator to manually control the related valves if the existing loop malfunctions in any way.

Summary of Safety Analysis

The modification enhances the safe operation of the plant because it increases the reliability of the Chemical and Volume Control System.

DC 81-103 Class 1E Solenoid Operated Valve Replacement 2 |

This design change removed certain solenoid operated valves (SOV's) whose qualifications have not been demonstrated to be adequate. These valves were replaced with equivalent SOV's which have adequately demonstrated environmental qualification.

Summary of Safety Analysis

The modification will provide additional assurance that the SOV's will perform their intended safety function during and following any postulated LOCA or HELB accident.

DC 81-104 Class 1E Transmitter Replacement 2

This design change replaced certain transmitters with equivalent transmitters which have adequately demonstrated environmental qualification per the guidelines set forth by IEEE Std 323-1974.

Summary of Safety Analysis

The modification will provide additional assurance that the transmitters will perform their intended safety function during and following a postulated LOCA or HELB accident.

DC 81-105 Class 1E Motor Operated Valve (MOV) Actuator Replacement — 2

This design change removed the existing MOV actuators, located inside the containment, from service and replaced them with equivalent actuators which have adequately demonstrated environmental qualification. The remaining non-qualified actuators, located outside the containment, were converted to meet the requirements.

Summary of Safety Analysis

The modification will provide additional assurance that the MOV's will perform their intended safety function during and following any postulated LOCA or HELB accident.

DC 81-119B NUREG-0696 Short Term I&C Project - Remote Multiplexer Installation: Part B - Rack and Cabinet Mounted Multiplexer — 2

This design change provides a number of remote multiplexers and buffer units, which are the front-end portions of the Data Aquisition System (DAS). The DAS will collect and transmit required data, vital information, and plant status.

Summary of Safety Analysis

The modification does not affect normal station operation nor the operation of any safety-related equipment. In the event of an accident or on-site emergency, the independent DAS provides a separate source of plant status and information, therefore increasing overall plant safety.

DC 82-01 Containment Purge Leakage Test — 1 & 2

This design change installed leakage monitoring connections on the containment side of the outside MOV's and provided blank flanges with a leakage monitoring connections on the other side of the outside MOV's. This would allow leakage testing of the Containment Purge MOV's with the units at power.

Summary of Safety Analysis

The modification increases the reliability of the of the system by enabling the frequency of the test to increase.

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

November 15, 1983

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

Serial No. 666
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 October, 1983. Also, attached are corrected pages 1, 4, 16, and 17 for the Monthly Operating Report of September, 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

IE24
1/1