

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 85-05

APPROVED BY:

*RF Saund*  
STATION MANAGER

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PDR ADOCK 05000280  
R PDR

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OPERATING DATA REPORT

FEB 02 1984

DOCKET NO. 50-280  
 DATE 06-10-85  
 COMPLETED BY V. Jones  
 TELEPHONE 357-3184

OPERATING STATUS

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Unit Name: <u>Surry Unit 1</u></li> <li>2. Reporting Period: <u>05-01-85 to 05-31-85</u></li> <li>3. Licensed Thermal Power (MWt): <u>2441</u></li> <li>4. Nameplate Rating (Gross MWe): <u>847.5</u></li> <li>5. Design Electrical Rating (Net MWe): <u>788</u></li> <li>6. Maximum Dependable Capacity (Gross MWe): <u>820</u></li> <li>7. Maximum Dependable Capacity (Net MWe): <u>781</u></li> <li>8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u></li> </ol> | <p style="text-align: center;">Notes</p> |
|---|--|

9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744.0</u>	<u>3623.0</u>	<u>109055.0</u>
12. Number of Hours Reactor Was Critical	<u>412.9</u>	<u>3207.8</u>	<u>67584.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>3774.5</u>
14. Hours Generator On-Line	<u>396.9</u>	<u>3167.3</u>	<u>66176.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>3736.2</u>
16. Gross Thermal Energy Generated (MWH)	<u>928849.5</u>	<u>7228220.1</u>	<u>153242397.2</u>
17. Gross Electrical Energy Generated (MWH)	<u>310025.0</u>	<u>2420390.0</u>	<u>49272353.0</u>
18. Net Electrical Energy Generated (MWH)	<u>294661.0</u>	<u>2301302.0</u>	<u>46713146.0</u>
19. Unit Service Factor	<u>53.4%</u>	<u>87.4%</u>	<u>60.7%</u>
20. Unit Available Factor	<u>53.4%</u>	<u>87.4%</u>	<u>64.1%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>50.7%</u>	<u>81.3%</u>	<u>57.5%</u>
22. Unit Capacity Factor (Using DER Net)	<u>50.3%</u>	<u>80.6%</u>	<u>57.0%</u>
23. Unit Forced Rate	<u>0</u>	<u>12.2%</u>	<u>20.0%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period Estimated Date of Startup: \_\_\_\_\_
26. Units In Test Status (Prior to Commercial Operation):      Forecast      Achieved

INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



OPERATING DATA REPORT

FEB 02 1984

DOCKET NO. 50-281  
 DATE 06-10-85  
 COMPLETED BY V. Jones  
 TELEPHONE 357-3184

OPERATING STATUS

1. Unit Name: Surry Unit 2 Notes \_\_\_\_\_  
 2. Reporting Period: 05-01-85 to 05-31-85  
 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 Number 3 Through 7) Since Last Report, Give Reasons: N/A

9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_  
 10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744.0</u>	<u>3623.0</u>	<u>105935.0</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>1885.5</u>	<u>67891.0</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>328.1</u>
14. Hours Generator On-Line	<u>0</u>	<u>1885.5</u>	<u>66793.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>4465212.5</u>	<u>156463617.8</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>1426555.0</u>	<u>50717029.0</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>1353723.0</u>	<u>48070165.0</u>
19. Unit Service Factor	<u>0</u>	<u>65.5%</u>	<u>63.5%</u>
20. Unit Available Factor	<u>0</u>	<u>65.5%</u>	<u>63.5%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>60.7%</u>	<u>59.0%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>59.7%</u>	<u>58.0%</u>
23. Unit Forced Rate	<u>0</u>	<u>0</u>	<u>14.2%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period Estimated Date of Startup: 06-15-85  
 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 06-10-85  
 COMPLETED BY V. H. Jones  
 TELEPHONE (804) 357-3184

REPORT MONTH May - 1985

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
85-8	04-29-85	S	347.1	A	3				Unit was shutdown for repairs to MOV-RH-1700 and went into snubber outage. MOV-RH-1700 was repacked. The snubber outage was completed and the unit was returned to service on 05-15-85.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

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

<sup>5</sup>  
 Exhibit I - Same Source

### UNIT SHUTDOWNS AND POWER REDUCTIONS

**DOCKET NO.** 50-281  
**UNIT NAME** Surry 2  
**DATE** 06-10-85  
**COMPLETED BY** V.H. Jones  
**TELEPHONE** (804) 357-3184

REPORT MONTH May - 1985

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
85-1	03-20-85	S	744.0	H	1				Unit is shutdown for refueling outage which commenced on 03-20-85.

<sup>1</sup>  
**F: Forced**  
**S: Scheduled**

<sup>2</sup>  
**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)**

<sup>3</sup>  
**Method:**  
**1-Manual**  
**2-Manual Scram.**  
**3-Automatic Scram.**  
**4-Other (Explain)**

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

<sup>5</sup>  
**Exhibit I - Same Source**

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO. 1

MONTH: May - 1985

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
<b>NONE FOR THIS PERIOD</b>						
<b>MONTHLY TOTAL</b>						

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONSUNIT NO. 2MONTH: May - 1985

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
<b>NONE THIS REPORTING PERIOD</b>						
<b>MONTHLY TOTAL</b>						

WEPCO AVERAGE DAILY UNIT POWER LEVEL SURRY POWER STATION

REPORTING MONTH - MAY 1985

DUCKET NO. 50-280

DUCKET NO. 50-281  
DATE MAY 1985  
COMPLETED BY V. JONES

UNIT ONE

AVERAGE DAILY POWER LEVEL  
--MUL-NET--

AVERAGE DAILY POWER LEVEL  
--NWE-NET--

UNIT TWO

DAY	UNIT ONE AVERAGE DAILY POWER LEVEL --MUL-NET--	UNIT TWO AVERAGE DAILY POWER LEVEL --NWE-NET--
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	0.0	0.0
11	0.0	0.0
12	0.0	0.0
13	0.0	0.0
14	0.0	0.0
15	107.2	0.0
16	675.9	0.0
17	777.5	0.0
18	779.0	0.0
19	778.9	0.0
20	775.7	0.0
21	774.5	0.0
22	775.8	0.0
23	779.8	0.0
24	780.4	0.0
25	530.2	0.0
26	763.7	0.0
27	773.9	0.0
28	772.8	0.0
29	775.3	0.0
30	779.8	0.0
31	776.2	0.0

SUMMARY OF OPERATING EXPERIENCEMONTH/YEAR May - 1985

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

05-01-85	0000	This reporting periods begin with the unit at 180°F. degassing primary.
05-02-05	0835	RCS is degassed.
05-10-85	0415	Commenced RCS fill and vent.
05-12-85	0354	RCS filled and vented.
	1628	RCS chemistry in specs.
05-13-85	0140	Bubble in pressurizer.
	0605	RCS > 200°F
	1605	RCS > 350°F/450 psig
05-14-85	0630	RCS at HSD
	1908	Reactor critical
05-15-85	1104	Generator on the line, increasing power at 4%/hr.
05-16-85	1548	Unit at 100% power, 815 MW's.
05-25-85	0105	Commenced rampdown to remove "B" HP drain pump from service.
	0212	Holding power at 85%, 700 MW's
05-25-85	1540	Commenced power reduction to 80% power.
	1616	Unit at 80% power 600 MW's.
	2220	"B" HP drain pump RTS, commenced power increase at 3%/hr.
05-26-85	0530	Unit at 100%, 815 MW's.
05-31-85	2400	This reporting period ends with the unit at 100% power, 815 MW's.

SUMMARY OF OPERATING EXPERIENCEMONTH/YEAR May - 1985

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 2

05-01-85	0000	This reporting period begins with the unit at RSD, various testing in progress.
05-04-85	1201	RHR system RTS.
05-05-85	1850	Commenced core on-load.
05-09-85	0120	Completed core on-load.
05-10-85	1935	Full length control rods are latched.
05-11-85	0535	Reactor head in place on R <sub>x</sub> vessel.
05-31-85	2400	This reporting period ends with the unit at CSD, making preparations for the Type "A" test.



AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

MAY - 1985

NONE THIS PERIOD

**FACILITY CHANGES REQUIRING  
NRC APPROVAL**

**FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL**

DC 81-118 Outside Recirculation Spray Pump Flow Test 1 & 2  
Piping Modification

This design change modified the flow test piping to provide sufficient straight lengths upstream and downstream of the flow element. In addition, new flow instrumentation was provided with a range increased from 0-900 gpm to 0-1200 gpm, to allow higher test flow rates.

**SUMMARY OF SAFETY ANALYSIS**

The modification provides more accurate flow indication for periodic inservice testing of the ORS pumps. It does not affect station operation or the operation of the ORS pumps.

DC 83-14F Decontamination Building Roof and Drip Protection 1 & 2

This design change replaced the existing tar and gravel decontamination Building roof with lightweight concrete reinforced with wire mesh. The roof serves as a working surface during cask handling operations. The new roof is a smooth working surface which can be more easily protected and decontaminated.

**SUMMARY OF SAFETY ANALYSIS**

The modification does not affect station operation or the operation of safety-related equipment. The new roof will facilitate protection of the surface from containment.

DC 83-31 Class 1E-Containment Atmosphere RTD Replacement 1 & 2

This design change replaced the containment atmosphere RTD's (TE-LM-100-1, TE-LM-100-2, TE-LM-200-1, TE-LM-200-2) with components which are seismically and environmentally qualified. The replacement RTD's are qualified sensors that provides the operator with Category I indication in accordance with R.G. 1.97.

**SUMMARY OF SAFETY ANALYSIS**

The replacement RTD's will provide Category I indication of containment temperature in the control room for the assessment of safety system operation and post accident monitoring.

FACILITY CHANGES THAT  
DO NOT REQUIRE NRC APPROVAL

DC 84-43 Installatin of Radiant Energy Shield Between RHR Pump Motors (2)

This design change installed a non-combustible radiant energy shield separating the RHR pumps to meet the requirements of Section III. G of 10CFR50 Appendix R. The radiant energy shield will protect one of the RHR pumps from a postulated RHR pump motor fire ensuring that at least one RHR pump is available after a postulated fire.

SUMMARY OF SAFETY ANALYSIS

The radiant energy shield is a passive fire protection measure. It has no effect on station operation or the operation of safety-related equipment.

TESTS AND EXPERIMENTS REQUIRING  
NRC APPROVAL

NONE THIS PERIOD

TESTS AND EXPERIMENTS THAT  
DID NOT REQUIRE NRC APPROVAL

NONE THIS PERIOD

OTHER CHANGES, TESTS AND EXPERIMENTS

NONE THIS PERIOD

VIRGINIA POWER  
SURRY POWER STATION  
CHEMISTRY REPORT

May                      19 85

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	1.13E+0	2.38E-2	4.24E-1	9.17E-2	6.13E-4	2.84E-2
Suspended Solids, ppm	0.0	0.0	0.0	0.0	0.0	0.0
Gross Tritium, $\mu\text{Ci/ml}$	7.99E-2	7.92E-2	7.96E-2	---	---	---
Iodine <sup>131</sup> , $\mu\text{Ci/ml}$	1.18E-1	6.68E-4	2.66E-2	2.65E-4	1.17E-5	1.26E-4
I <sup>131</sup> / I <sup>131</sup>	0.47	0.20	0.32	---	---	---
Hydrogen, cc/kg	36.6	4.3 **	16.5 **	---	---	---
Lithium, ppm	2.20	0.82	1.38	---	---	---
Boron-10, ppm*	414	122	205	422	402	414
Oxygen, (D.O.), ppm	0.010	$\leq 0.005$	$\leq 0.005$	SAT	2.0	SAT
Chloride, ppm	$\leq 0.01$	$\leq 0.01$	$\leq 0.01$	$\leq 0.01$	$\leq 0.01$	$\leq 0.01$
pH @ 25°C	6.50	5.40	6.07	4.92	4.68	4.77

\* Boron-10 = Total Boron x 0.196

REMARKS: Unit 1: Began to fill and vent containment on 5-10-85. On 5-14-85,  
operations commenced reactor startup. Rampdown to 80% power on 5-25-85 to re-  
move "B" HPHD from service. Cat bed placed in service for LiOH removal on the  
following days: 5-17, 5-20, 5-23, 5-27, 5-31. LiOH additions on 5-12 & 5-14  
for start-up.\*\*

Unit 2: Commenced moving fuel on 5-9. Began tensioning reactor head on 5-17.

\*\*Minimum and average values low due to the large number of samples taken during  
system degasing. System average excluding degasing data is 25.9 cc/Kg.

DESCRIPTION OF ALL INSTANCES WHERE  
THERMAL DISCHARGE LIMITS WERE EXCEEDED

NONE THIS PERIOD







PROCEDURE REVISIONS THAT CHANGED THE  
OPERATING MODE DESCRIBED IN THE PSAR

<u>PROCEDURE NO.</u>	<u>UNIT</u>	<u>TITLE</u>
ST-177	1 & 2	CC Water Head Up Rate with SW Isolated to the CC Hx's

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

NONE THIS PERIOD

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

MECHANICAL MAINTENANCE

SEE THE ATTACHED

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/01/85	01-SHP-HSS -21	018458	NUTS ON BOLTS HOLDING END	TIGHTEN BOLTS TO PROCEDURE SPECIFICATIONS
0228	05/02/85	01-CH -MOV -1286A	019011	PM - ON DEMAND	PERFORMED PMS
0228	05/07/85	01-CH -MOV -1270A	019012	PM - ON DEMAND	COMPLETED PMS
0228	05/07/85	01-CV -P -1A	018352	PUMP WILL NOT DEVELOPE FLOW ,	REMOVED CV PUMP #0413 FROM SYSTEM, INSTALLED PUMP #1183
0228	05/07/85	01-CV -P -1A	018491	PUMP DOES NOT PUMP.	REMOVED CV PUMP #1183 FROM SYSTEM, INSTALLED PUMP #777 AND TESTED.
0228	05/07/85	01-DG - -63	018904	REMOVE INTERNALS	REMOVED VALVE INTERNALS AND FOUND FURMANITE IN VALVE, REMOVED FURMANITE PUT VALVE INTERNALS IN PLUG AND TAPED TO PIPE AND PUT COVER BACK ON VALVE.HAD OPS TEST PUMP FINE
0228	05/07/85	01-DG - -63	019347	INSTALL INTERNALS	INSTALLED INTERNALS BACK IN VALVE OLD INTERNALS
0228	05/07/85	01-DG - -66	018903	REMOVE INTERNALS	DISASSEMBLED VALVE FOUND FURMANITE PACKING INSIDE.REMOVED INTERNALS REINSTALLED TOP CAP TAPED INTERNALS TO VALVE
0228	05/07/85	01-EP -B -1B	013262	CLEAN BATTERY TERMINAL ON CELL	CLEANED BATTERY TERMINAL & REPLACED A NEW PLATE ON THE TERMINAL. EVERYTHING BACK SAT 5/2/85
0228	05/07/85	01-RC -PCV -1455C	010994	VALVE LEAKS BY BADLY	ADJUSTED STROKE
0228	05/07/85	01-RH -HCV -1142	019021	HCV-1142 WILL NOT OPEN	FOUND 67FR REGULATOR WITH NO OUTPUT REPLACED SAME. OP SAT.
0228	05/07/85	01-RH -MOV -1700	011572	FURMANITED, RETURN TO ORIGINAL	REPACKED VALVE WITH CHESTERTON PACKING. TORQUED PACKING TO 67 FT/LBS. REPLACED 1/2 SS LEAK OFF LINE
0228	05/07/85	01-RP -SW -P-10	007525	REPLACE TRAIN 'B' P-10 TEST	INSTALLED NEW SWITCH, EVERYTHING SAT. INSTRUMENT TECHS TO PERFORM PT
0228	05/08/85	01-CH -P -2A	016751	BOTH ENDS OF SEAL LINE LEAK.	REPLACED SWAGelok FITTINGS AND REINSTALLED PIPE
0228	05/09/85	01-CW -MOV -100D	018010	VALVE FAILED TO FULLY OPEN	TESTED MOV WITH MOVAT REPRESENTATIVE. COMPLETED EMP-C-MOV-151. INSTALLED NEW BOLT AFTER TAPPING. SUBMITTED WORK ORDER TO MECHS TO INSPECT WORM GEAR IN LIMITORQUE.
0228	05/09/85	01-FW -FCV -1498	019214	REGULATOR BLOWING AIR, NEEDS REPLACEMENT.	REPLACED REGULATOR
0228	05/09/85	01-RC -P -1B	018042	PUMP VAPOR SEAL HEAD TANK REQUIRES FREQUENT FILLING	REMOVED SHIM PACKS,INSTALLED NEW SHIMS ADJUSTED SHIMS
0228	05/11/85	01-CH -LCV -1460A	011072	BODY TO BONNET LEAK	DISASSEMBLED VALVE.CHANGED BONNET GASKET.REASSEMBLED VALVE.CHANGED STUDS AND NUTS
0228	05/11/85	01-CH -LCV -1460B	011073	BODY TU BONNET LEAK	DISASSEMBLED VALVE REPLACED BONNET GASKET,CHANGED BOLTS AND NUTS REASSEMBLED VALVE

VEPCO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
FROM 05/01/85 THRU 05/16/85  
UNIT 01 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/11/85	01-CH -MOV -1286C	019200	PM - ON DEMAND	PERFORMED PMS CH-MOV-E/R1 AS PER WO SAT PERFORMED EMP-C-MOV-143 AND CYCLED VALVE SAT
0228	05/11/85	01-DG - -18	019297	FULL CAP, CLEAN INTERNALS,	CLEANED OUT CHECK VALVE
0228	05/11/85	01-DG - -66	019348	INSTALL INTERNALS	OPENED VALVE BONNET, INSTALLED INTERNALS AND CLOSED VALVE
0228	05/11/85	01-DG -PP -24	019442	REMOVE, CLEAN, REINSTALL,	OPENED STRAINER HOUSING FOUND NO BASKET AND NO OBSTRUCTION. REINSTALLED HOUSING
0228	05/11/85	01-DG -PP -40	019441	REMOVE, CLEAN, REINSTALL	OPENED STRAINER HOUSING, FOUND NO BASKET AND NO OBSTRUCTION. REINSTALLED HOUSING
0228	05/11/85	01-IC -PP -NA	011067	SEVERAL LEAKS @ SFAL TABLE ON C-5, F-10, E-10, H-1, A-10, & D-8	SHORTENED H-1 AND G-7 GUIDE TUBES AND THIMBLE TUBES TO ACCOMMODATE NEW HIGH PRESSURE SEALS. NEW NUTS AND FERRULES WITH EXISTING SWAGelok TO ALL UNIONS WERE INSTALLED.
0228	05/11/85	01-RC -PCV -1455C	019026	REMOVE/INSTALL INSTRUMENTATION	REMOVED & RE-INSTALLED INSTRUMENTATION. PERFORMED FUNCTIONAL TEST OF SYSTEM. OK SAT.
0228	05/12/85	01-CS -MOV -100B	019020	PM - ON DEMAND	PERFORMED PMS TO 5.9 STARTED EMP-C-MOV-143. PERFORMED PMS FROM 5.9 TO 7.8 ON CS-MOV-E/R1 AND FROM 5.3 TO 7.2 ON EMP-C-MOV-143 CYCLED VALVE SAT
0228	05/12/85	01-SW -E -1B	019418	TUBE LEAK	REPLACED TUBE BUNDLE. UNSOLDERED 2 BRAZE JOINTS FOR INSTALLATION OF TUBE BUNDLE AND REBRAZED JOINTS AFTER INSTALLATION OF TUBE BUNDLE
0228	05/13/85	01-RC -PP -NA	019454	REMOVE STAND PIPE/ASSIST OPS/ RE-INSTALL BLANK FLANGES	REMOVED STAND PIPE AND INSTALLED VENTS
0228	05/13/85	01-RH -MOV -1700	018643	PACKING LEAK, REINJECT	REINJECT LEAK OFF LINE WITH FURMANITE COMPOUND
0228	05/14/85	01-CH -MOV -1275C	019497	PM - ON DEMAND	COMPLETED PMS AS PER CH-MOV-E/41 & EMP-C-MOV-143. TESTED VLV SAT. VLV DRAWING IN EXCESS OF THE ALLOWABLE 15% OVERCURRENT
0228	05/14/85	01-RH -MOV -1701	018721	VLV HAS EXCESSIVE VLV STEM LEAK OFF INJECT WITH FURMANITE	INJECTED LEAK OFF LINES WITH FURMANITE COMPOUND
0228	05/14/85	01-SI - -241	019612	TIGHTEN BONNET/STOP LEAK	TIGHTEN BONNET. RETORQUED TO 700* LBS NUTS TURNED APPROX 3/4 OF A TURN RECOMMEND CHECK VALVE BE HOT TORQUED IN FUTURE WHEN SYSTEM IS HEATING UP

VEPCO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
 FROM 05/24/85 THRU 05/25/85  
 UNIT 01 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/24/85	01-CS -MOV -101A	019851	CARBON STEEL STUDS IN VALVE	REMOVED CORROSION FROM STUDS AND APPLIED FEL-PRO COATING.
0228	05/24/85	01-SW - -37	007530	VALVE LEAKS BY	INSTALLED NEW VALVE IAW EWR 85-292
0228	05/24/85	01-SW - -37	018300	VALVE WILL NOT FUNCTION.	REMOVED OLD VALVE, REPLACED WITH NEW VALVE AND ALL NEW HARDWARE. WORK IN CONJUNCTION WITH WO #007530 AND EWR 85-292

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

MECHANICAL MAINTENANCE

SEE THE ATTACHED



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/01/85	02-CH -	-2	013965 CHANGE DIAPHRAGM ON 2" GRINNEL	REMOVED BONNET, INSTALLED DIAPHRAGM AND O-RINGS, RE-INSTALLED BONNET
0228	05/01/85	02-CH -	-31	014050 CHANGE DIAPHRAGM ON 2" GRINNEL	REMOVED BONNET, REPLACED BONNET DIAPHRAGM & O-RINGS, RE-INSTALLED BONNET AND TORQUED.
0228	05/01/85	02-CH -	-32	014051 CHANGE DIAPHRAGM ON 2" GRINNEL	REPLACED DIAPHRAGM & O-RINGS, RE-INSTALLED BONNET & TORQUED NUTS.
0228	05/01/85	02-CH -	-35	014054 CHANGE DIAPHRAGM ON 2" GRINNEL	REMOVED BONNET, INSTALLED NEW DIAPHRAGM & O-RINGS, RE-INSTALLED BONNET.
0228	05/01/85	02-CH -	-36	014399 DIAPHRAGM CHANGE, 5 YEAR	REMOVED BONNET. REPLACED DIAPHRAGM & O-RINGS W/GREASE. RE-INSTALLED BONNET
0228	05/01/85	02-CH -	-37	014401 DIAPHRAGM CHANGE, 5 YEAR	REMOVED BONNET, INSTALLED NEW DIAPHRAGM & O-RINGS, RE-INSTALLED BONNET
0228	05/01/85	02-CH -	-4	013974 CHANGE DIAPHRAGM ON 2" GRINNEL	REMOVED BONNET ASSY. REPLACED DIAPHRAGM, O-RINGS, REPLACED BONNET AND ADJUSTED AS PER MAINTENANCE PROCEDURE.
0228	05/01/85	02-CH -	-43	014407 DIAPHRAGM CHANGE, 5 YEAR	REMOVED BONNET, REPLACED DIAPHRAGM AND O-RINGS W/GREASE, RE-INSTALLED BONNET
0228	05/01/85	02-CH -	-44	014409 DIAPHRAGM CHANGE, 5 YEAR	REMOVED BONNET, REPLACED DIAPHRAGM & O-RINGS W/GREASE. RE-INSTALLED BONNET
0228	05/01/85	02-CH -	-45	014410 DIAPHRAGM CHANGE, 5 YEAR	REMOVED BONNET, CHANGED DIAPHRAGM & O-RINGS, RE-INSTALLED BONNET
0228	05/01/85	02-CH -	-47	014413 DIAPHRAGM CHANGE, 5 YEAR	REMOVED BONNET, INSTALLED NEW O-RINGS AND DIAPHRAGM, RE-INSTALLED BONNET.
0228	05/01/85	02-CH -	-5	013977 CHANGE DIAPHRAGM ON 2" GRINNEL	REMOVED BONNET, REPLACED O-RING IN BONNET, REPLACED O-RING IN BUSHING, REPLACED DIAPHRAGM, RE-INSTALLED BONNET & TORQUED
0228	05/01/85	02-CH -E	-5C	018659 ZINC PLUG HAS HOLE IN IT CAUSING SERVICE WATER LEAK	REPLACED ZINC PLUGS IN LUBE OIL COOLER
0228	05/01/85	02-DA -	-64	001364 VALVE LEAKING BY WITH 45 PSIG IN CONTAINMENT	DISASSEMBLED VALVE INSPECT SEATING SURFACE. SAT REINSTALLED VALVE
0228	05/01/85	02-MS -	-120	017827 VALVE LEAKS BY, REPAIR.	DISASSEMBLED ULV, BLUED GATE 100%, REPLACED

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/01/85	02-MS - -5	017818	VALVE LEAKS BY, REPAIR.	REPLACED VALVE
0228	05/01/85	02-MS - -87	015744	REPLACE BROKEN CHAIN	REPAIRED CHAIN UNTIL NEW CHAIN COMES IN 3/14/85. REMOVED EXISTING CHAIN, REPLACED WITH NEW CHAIN PURCHASED ON P.O. #75500.
0228	05/01/85	02-MS - -87	017823	VALVE LEAKS BY, REPAIR. GOMED	DISASSEMBLED VLV, BLUED SEATS 100%, REPACKED & INSTALLED NEW SEAL RING.
0228	05/01/85	02-RC -HCV -2519B	016591	CHANGE DIAPHRAGM, 5 YEAR COMMITMENT	REPLACED DIAPHRAGM
0228	05/01/85	02-RC -HCV -2522A	016594	CHANGE DIAPHRAGM, 5 YEAR COMMITMENT	REPLACE DIAPHRAGM AND O RINGS
0228	05/01/85	02-RC -HCV -2522C	016595	CHANGE DIAPHRAGM, 5 YEAR COMMITMENT	REPLACED DIAPHRAGM
0228	05/01/85	02-RC -HCV -2549	016593	CHANGE DIAPHRAGM, 5 YEAR COMMITMENT	REPLACED DIAPHRAGM
0228	05/01/85	02-SI -RV -2858A	017418	REMOVE VALVE, BENCH TEST, RE-INSTALL ON COMPLETION OF HYDRO	REMOVED VALVE, TESTED AS PER PT 12. 2, VALVE TESTED SAT. REPLACED BODY TO BONNET GASKET AND PUT VALVE BACK IN SYSTEM.
0228	05/03/85	02-BG -DR -NA	011954	DOOR HAS NO KNOB OR LATCH, REPLACE	REPLACED EXISTING SERVICE DOOR. NO ALTERATIONS NEEDED
0228	05/03/85	02-CS - -105	017230	ASSIST OPERATIONS DEPARTMENT	OPENED FOR OP'S INSPECTION INSTALLED NEW GASKET. GASKET ARE 10 7/16 ID 11 1/2 O.D.
0228	05/06/85	02-BG -DR -HATCH	019342	OUTER DOOR HANDLE ON INSIDE OF DOOR (CONT SIDE) BROKE OFF	REINSTALLED HANDLE TIGHTENED TWO 1/4-20 SET SCREWS
0228	05/06/85	02-CV - -12	015833	DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET, REPLACED O-RINGS AND DIAPHRAGM. REINSTALLED BONNET, PUT VALVE BACK INTO SYSTEM
0228	05/06/85	02-CV - -13	016518	DIAPHRAGM CHANGE 5 YEAR COMMITMENT	INSTALL BONNET ASSEMBLY
0228	05/06/85	02-CV - -14	015834	DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET AND REPLACED O-RINGS DIAPHRAGM AND STEM ASSEMBLY AND TORQUE BONNET NUTS
0228	05/06/85	02-CV - -20	015836	DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET, CHANGED O-RINGS & GREASED, CHANGED DIAPHRAGM AND RE-INSTALLED BONNET.
0228	05/06/85	02-CV - -21	015837	DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET. INSTALLED NEW STEM ASSEMBLY DIAPHRAGM, O-RINGS. REINSTALLED BONNET
0228	05/06/85	02-CV - -22	016515	DIAPHRAGM CHANGE 5 YR COMMITMENT	REMOVED BONNET, REPLACED STEM ASSY, O-RINGS & DIAPHRAGM. REPLACED BONNET ASSY & ADJUSTED AS PER MAINT. PROCEDURE.
0228	05/06/85	02-CV - -26	015839	DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REPLACED BONNET ASSEMBLY.
0228	05/06/85	02-CV - -27	015841	DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET, REPLACED O-RINGS IN BUSHING & IN BONNET, REPLACED STEM ASSEMBLY, DIAPHRAGM. RE-INSTALLED & TORQUED

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/06/85	02-CV -	-47	015842 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET, INSALLED NEW STEM ASSY., O-RINGS, DIAPHRAGM. RE-INSTALLED BONNET.
0228	05/06/85	02-GW -	-184	014406 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	INSTALL DIAPHRAGM.INSTALL O-RINGS IN BONNET.INSTALL O-RINGS IN BUSHING
0228	05/06/85	02-GW -	-185	014385 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET REPLACED O-RING IN BUSHING REPLACED O-RING IN BONNET REPLACED STEM ASSEMBLY.REPLACED DIAPHRAGM.REINSTALLED AND TORQUED
0228	05/06/85	02-GW -	-186	014398 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	INSTALL BONNET ASSEMBLY
0228	05/06/85	02-GW -	-187	014392 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET ASSEMBLY AND REPLACE D STEM ASSEMBLY,O-RINGS AND DIAPHRAGM.INSTALLED BONNET AND ADJUSTED AS PER MAINTANENCE PROCEDURE
0228	05/06/85	02-GW -	-188	014416 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET,REPLACED DIAPHRAGM AND O-RINGS AND REINSTALLED BONNET AND TORQUED.
0228	05/06/85	02-GW -	-189	014412 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REPLACED O-RINGS DIAPHRAGM INSPECTED BONNET ASSEMBLY.REINSTALLED THE VALVE AND TORQUED THE BONNET NUTS
0228	05/06/85	02-GW -	-191	014388 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET,REPLACED STEM ASSEMBLY,O-RINGS AND DIAPHRAGM. REINSTALLED BONNET
0228	05/06/85	02-GW -	-192	014395 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	INSTALL BONNET ASSY
0228	05/06/85	02-GW -	-194	014403 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	DISASSEMBLED VALVE INSPECTED BONNET ASSEMBLY,REPLACED DIAPHRAGM AND O-RINGS REINSTALLED AND TORQUED BONNET NUTS
0228	05/06/85	02-GW -	-195	014400 DIAPHRAGM CHANGE AS PER 5 YR COMMITMENT	REMOVED BONNET REPLACED DIAPHRAGM AND O-RINGS.REINSTALLED BONNET AND TORQUED
0228	05/06/85	02-SS -TV	-201B	017772 EXCESSIVE LEAKAGE AS PER P.T. 10.4	TOOK VALVE OUT OF SYSTEM AND LAPPED SEAT. INSTALLED NEW PLUG & PUT IT BACK INTO SYSTEM
0228	05/07/85	02-CH -P	-1C	018868 REPLACE AUX OIL PUMP ASSEMBLY	INSPECTED PUMP FOUND NO PROBLEMS ELECTRICIANS REPLACED MOTOR ELECTRICIANS REPAIRED ON WO 070588
0228	05/07/85	02-MS -	-106	009291 CAN'T TURN VALVE HANDLE.	RE-INSTALLED RATCHET HANDLE

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/07/85	02-RH -FNG -NA	017256	INSTALL BLANK FLANGE FOR HYDRO	REMOVED AND INSTALLED RELIEF VALVE
0228	05/07/85	02-SI - -102	018794	SMALL PACKING LEAK	ADJUSTED PACKING
0228	05/07/85	02-SI - -110	018811	SMALL PACKING LEAK	ADJUSTED PACKING
0228	05/07/85	02-SI - -152	017748	THREADS STRIPPED ON END OF PIPE NEEDS TO BE RETHREADED	02-SI-152 LOW POINT DRAIN NIPPLE. THE CAP WAS IMPROPERLY INSTALLED ON NIPPLE GUALLING BOTTOM 2 OR 3 THREADS. DIE NUTTING ON NIPPLE DID NO CHANGE. INSTALLED CAP
0228	05/09/85	02-BG -DR -HATCH	019385	OIL LEAK ON OUTER DOOR CYLINDER	TIGHTENED LOOSE FITTINGS
0228	05/09/85	02-RC -RK -1	001556	REPLACE RX HEAD SEAL.	REMOVED OLD SEAL RINGS CLIPPED THEM UP BAGGED AND REMOVED IN ACCORDANCE WITH HP. CLEANED FLANGE AND SEAL RING SEATING AREAS. INSTALLED NEW SEAL RINGS. CLEANED UP
0228	05/13/85	02-CH -FCV -2160	019432	EXCESSIVE LEAKAGE AS PER P.T. 18.4	ADJUSTED STROKE 5-10-85
0228	05/13/85	02-SS -TV -200A	017769	VLV HAS EXCESSIVE LEAKAGE AS P PER P.T. 18.4	DISASSEMBLED VALVE REPLACED STEM TIP REASSEMBLED VALVE
0228	05/17/85	02-CC -RV -214A	019611	RE-INSTALL VALVE THAT WAS BROKEN OFF	REINSTALLED VALVE MFG NEW NAMEPLATE TAG AND ADDED TO VALVE
0228	05/17/85	02-CH - -400	017686	PIPE THREADS DAMAGED AT PIPE CAP	INVESTIGATION SHOWED JOB HAS ALREADY BEEN WORKED. CAP WAS INSTALLED.
0228	05/17/85	02-HS -RV -201A	009139	VALVE DOES NOT GO FULL STROKE AND IS VERY SLOW AND STICKING	REMOVED ACTUATOR, REMOVED VALVE, MACHINED SEAT. REPLACED PLUG 2ND SPRING. LAPPED SEAT. REBUILT ACTUATOR. DRILLED-TAPPED & INSTALLED HELI-COILS IN 4 BONNET STUD HOLES.
0228	05/17/85	02-HS -RV -201C	001770	VALVE LEAKS BY	REMOVED ACTUATOR, REMOVED VALVE. MACHINED SEAT, REPLACED PLUG AND SPRING. LAPPED SEAT, INSTALLED VLV, REBUILT ACTUATOR, INSTALLED AND SET ACTUATOR.
0228	05/17/85	02-RC -E -1A	019682	BUFF OUT ARC STRIKES ON SPLASH	BUFFED TWO ARC STRIKES ON SPLASH GUARDS. OC VISUAL SAT.
0228	05/17/85	02-RC -SD -1A	013301	REPAIR OR REPLACE SMOKE/FIRE DETECTOR	REPLACED HEAT SENSOR CAPILLIARY. TEST OPERATED IAW 2-PT-24.5A. ALL COMPONENTS ARE CAT II; SYSTEM NOT REQUIRED TO BE CAT I.
0228	05/17/85	02-RH -RV -2721	017416	REMOVE VALVE, BENCH TEST, RE-INSTALL VALVE	TESTED VALVE AND HAD TO ADJUST. FINAL TEST GOOD
0228	05/18/85	02-CH - -277	001861	REPACK VALVE AND CLEAN	REPACKED VALVE

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
J228	05/22/85	02-SI -MOV -2867C	015895	WHEN LEVER WAS ENGAGED THEN	NO PROBLEM FOUND VALVE CYCLED SAT AND PASSED PT 16.4
0228	05/23/85	02-IA - -868	017946	EXCESSIVE LEAKAGE A6 PER P.T. 16.4	DISASSEMBLED VALVE, LAPPED SEAT AND DISC.
0228	05/24/85	02-VP - -12	018884	EXCESSIVE LEAKAGE 8.4 SCFH AS PER PT 16.4	DISASSEMBLED VALVE AND LAPPED SEAT AND DISC.
0228	05/25/85	02-SW -PP -NA	019341	EXPANSION JOINT HAS 4 SMALL HOLES IN IT	REMOVED & REPLACED EXPANSION JOINT.
0228	05/28/85	02-CC -RV -238C	001330	REPLACE VALVE	REMOVED, TESTED UNSAT. REPLACED GASKET, STEM, GUIDE, DISC, NUT AND SCREW. TESTED SAT. RE-INSTALLED.
0228	05/28/85	02-CH -FNG -NA	017288	INSTALL BLANK FLANGES FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-CS -FNG -NA	017377	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/28/85	02-CS -FNG -NA	017378	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-CS -RD -201A	017397	ROTATE SPECTACLE FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-RC -FNG -NA	019824	MAKE A FLANGE FOR CONNECTING	USED CARBON STEEL FLANGE 3/4" AND NIPPLE 3/4" X 4" AS PER G. MOORE. INSTALLED 5/26/85.
0228	05/28/85	02-RS -FNG -NA	017272	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-RS -FNG -NA	017276	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-RS -FNG -NA	017284	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-RS -FNG -NA	017287	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/28/85	02-SW -PP -NA	019073	INLET FLANGE TO EXPANSION JOINT LEAKS	REMOVED & REPLACED EXPANSION JOINT
0228	05/28/85	02-VP - -12	013953	REMOVE TAIL PIECE FROM 2-VP-12	INSTALLED & REMOVED BLANK FLANGE
0228	05/29/85	02-RC -HSS -101	017649	REMOVE, TEST, STAMP 'V' NUM-	REMOVED, TESTED, STAMPED 'V' #0140, PLACED IN CAT 1 STORAGE AREA FOR ENGR. DISPOSITION. INSTALLED NEW SNUBBER, SEE W.O. 3800018129
0228	05/30/85	02-CH -FNG -NA	017261	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED/REMOVED BLANK FLANGE
0228	05/30/85	02-CH -HCV -2142	019886	REPACK, LOWER PACKING BLOWN, PT 18.4	REPACKED VALVE, 6 RINGS 4 BELOW AND 2 ABOVE. 1/4" GARLOCK 98
0228	05/30/85	02-CS -FNG -NA	017257	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/30/85	02-CS -FNG -NA	017259	INSTALL BLANK FLANGE ON DISCH OF 2-CS-P-18 FOR HYDRO	INSTALLED/REMOVED BLANK FLANGE
0228	05/30/85	02-IA - -864	017945	EXCESSIVE LEAKAGE AS PER P.T. 18.4	DISASSEMBLED VALVE. LAPPED SEAT AND DISC AS NECESSARY.
0228	05/30/85	02-RC -PT -2457	019823	WELDED IN DRAIN VALVE LEAKS THRU BODY MUST BE REPLACED	REPLACED VALVE
0228	05/30/85	02-RM - -3	017979	CHECK LEAKS BY EXCESSIVELY AS PER PT 18.4	DISASSEMBLED VALVE AND LAPPED SEAT AND DISC.
0228	05/30/85	02-RS - -54	018943	VALVE CAP WELDED IN PLACE	CUT OFF CAP & THREAD PIPE AND INSTALLED CAP
0228	05/30/85	02-RS -MOV -256B	019525	VLV MOTOR RUNS, OPEN/CLOSE	REMOVED LIMITORQUE FROM VALVE STEM. REPLACED SHEARED PIN. RE-INSTALLED LIMITORQUE RENEWED LUBRICANT IN LIMITORQUE. SHEARED PIN REPLACED



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0228	05/30/85	02-SI - -24	019811	PACKING LEAKOFF LINE UNION	TIGHTENED UNION
0228	05/30/85	02-SS -TV -201A	019581	VLV HAS RUPTURED DIAPHRAM	REPLACED O-RING
0228	05/31/85	02-CH - -375	013742	REMOVE BLANK FLANGE ON 02-CH-3	REMOVED BLANK FLANGE
0228	05/31/85	02-CH -E -5B	019421	HOLE IN SERVICE WATER OUTLET	REPLACED ONE INCH NIPPLE, NO WELDING
0228	05/31/85	02-CH -FNG -NA	017273	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017275	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017278	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017360	INSTALL BLANK FLANGES ON BOTH SIDES OF RV 2382B	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017362	INSTALL BLANK FLANGES ON BOTH SIDES OF RV 2257 (VCT RV)	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017363	INSTALL BLANK FLANGES ON BOTH SIDES OF RV 2382A	COMPLETED 5/22/85
0228	05/31/85	02-CH -FNG -NA	017365	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017366	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -FNG -NA	017368	INSTALL BLANK FLANGE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CH -HCV -2303B	018362	VALVE IS STICKING WHILE TRAVELING IN OPEN POSITION	VOID COMPLETED ON WO 018912
0228	05/31/85	02-CS - -13	013946	REVERSE SPECTACLE FLANGE TO THE BLANKED POSITION	INSTALLED & REMOVED SPECTACLE FLANGE
0228	05/31/85	02-CS -FNG -NA	017412	ROTATE SPECTACLE FLANGE TO BLANK SIDE FOR HYDRO	INSTALLED & REMOVED BLANK FLANGE
0228	05/31/85	02-CS -MOV -201D	019842	CLEAN CORROSION FROM VALVE	WIRE BRUSHED ACID & CORROSION FROM VALVE
0228	05/31/85	02-EPL-EP -4B	017896	WHEN PERFORMING P.T. 16.2A ON 4B PENT	DISCONNECTED CABLES 4/25. TORQUED FEED THRU NUTS TO 375FT/LBS. TIGHTENED PRESSURE MONITORING TUBE. CKED PRESSURE SYS WITH & WITHOUT O-RING CHAMBER. RUN PRESSURE TEST
0228	05/31/85	02-MS - -347	017704	REPACK (NEW PACKING PROGRAM)	REMOVED OLD PACKING, INSTALLED NEW GARLOCK 98 PACKING 1/8"
0228	05/31/85	02-RC - -41	001951	PACKING LEAK	REPACKED VALVE WITH GARLOCK 98
0228	05/31/85	02-SI - -304	001367	VALVE LEAKS BY AS FOUND DURING TYPE A TEST	REPLACED CHECKED VALVE WITH NEW.
0228	05/31/85	02-SI -MOV -2862A	019844	BORIC ACID IN FLANGE AREA,	WIRE BRUSHED BORIC ACID FROM FLANGE AREA.
0228	05/31/85	02-SI -MOV -2862B	019845	CLEAN OFF BORIC ACID BUILDUP	WIRE BRUSHED BORIC ACID FROM FLANGE AREA
0228	05/31/85	02-SI -RV -2845C	009490	TEST VALVE 2-PT-12.2	REMOVED VALVE FROM SYSTEM 5/24/85 TEST VALVE AS PER ATTACHED PT 12.2 TEST SAT. REINSTALLED VALVE IN SYSTEM 5/27.
0228	05/31/85	02-SS -TV -204B	005459	TV WILL NOT REMAIN CLOSED	REPLACED MICRO SWITCHES FOR 33 SEAL IN ON VALVE. 5/22/85

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

SEE THE ATTACHED



VEPCO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
 FROM 05/24/85 THRU 05/25/85  
 UNIT 01 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/03/85	01-SI -MOV -1867A	019196	PM - ON DEMAND	VALVE NO LONGER EXISTS
0229	05/07/85	01-CH -P -2A	018734	INSPECT THERMAL SOLDER POTS AND OR REPLACE IF NECESSARY	REPLACED CONTACTS ON STARTER 5/1/85 MOTOR OPERATED SAT.

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/07/85	01-EPD-B -1B	016905	REPLACE BATTERY TERMINAL	REPLACED BATTERY TERMINALS PLATES & RETURNED SYSTEM BACK TO NORMAL 3/4" BOLTS TORQUED TO 45 FT/LBS 1/2" BOLTS TORQUED TO 110 FT/LBS
0229	05/07/85	01-RC -F -1A	019039	CHECK VIBRATION DETECTORS AND REPAIR	READ VOLTAGE TO A FRAME VERT PROX = 8.83 HORIZONTAL 8.59 A SHAFT VERT. 5.93, HOIZ. 6.51 SUPPOSE TO BE 7 VDC +/- 10% ALARM POINT TO TEST METER WORKED FINE 5/5/85
0229	05/07/85	01-RP -REL -SRBYB	015972	REPLACE RELAY, RELAY IS NOT ENERGIZED	REPLACED DEFECTIVE RELAY (1-RP-REL-SYBYB) COMPLETED PROCEDURE EMP-C-CT-24. REQUEST INST DEPT PERFORM PT 18.1 SOURCE RANGE TO VERIFY RELAY SAT.
0229	05/07/85	01-SI -MOV -1849B	019013	PM - ON DEMAND	PERFORMED PMS ADDED GREASE, REPLACE GEAR BOX GASKET
0229	05/07/85	01-SW -MOV -103A	013866	REPLACE 52 RELAY AT MCC FOR MOV-SW-103A	REPLACED RELAY 5/1/85
0229	05/09/85	01-EPD-B -1A	016906	REPLACE BATTERY TERMINAL	REPLACED BATTERY TERMINAL PLATE WITH NEW ONE. RETURNED TO SERVICE. EVERYTHING SAT. TORQUED BOLTS TO 45FT/LBS AND 110 IN LBS RESPECTFULLY.
0229	05/09/85	01-RPI-MISC-N9	019271	CHECK RPI PLUGS AND REPAIR AS NECESSARY	BRIDGED PRIMARY & SECONDARY PINS A-D. TEST COMPLETE. REMOVED PLUG FROM HEAD, 1 FEMALE PIN WAS NOT FLUSH W/FACE OF PLUG. RECONNECTED PLUG TO HEAD. EVERYTHING SAT
0229	05/09/85	01-SW -MOV -102B	019344	PM - ON DEMAND	PERFORMED PMA 05/07/85 STROKED VALVE 5/8/85 NOTED THAT AMPS ARE 1.1 A MP ABOVE RATED FL AMPS OF 2.3 NOTIFIED ELEC COORDINATOR SUBMITTED WO TO INSPECT AND REPAIR
0229	05/10/85	01-CH -LCV -1460B	019006	DISCONNECT/RECONNECT SWITCHES FOR VALVE MAINTENANCE	LIMIT SWITCHES REMOVED INSTALLED BY FURMANITE. RESET LIMIT UPPER CYCLED VALVE SAT 5/10/85
0229	05/11/85	01-DA -TV -100B	019037	CHECK VALVE FOR PROPER OPERATION	DISCONNECTED ELECTRICALLY AND SET ON SIDE NEAR VALVE. REMOUNTED LIMIT SWITCH ASSEMBLY ALSO REMOUNTED SOLENOID VALVE. REMOUNTED INDICATOR CHECKED FOR PROPER LIGHT OPERATION
0229	05/11/85	01-EP -BKR -15H3	006487	REPLACE AGASTAT 62-7014PB	EMP-C-RT-45 COMPLETED. AGASTAT (NEW) INSTALLED AND TESTED OK. AGASTAT REPLACED BECAUSE ORIGINAL DID NOT HAVE CERTIFICATION
0229	05/11/85	01-EPD-B -1A	018338	INSTALL STYROFOAM SPACERS BETWEEN BATTERIES & RACKS	INSTALLED STYROFOAM SPACERS AND WOODEN SPACERS BETWEEN BATTERIES AND RACKS. INSTALLED CAT 1 STYROFOAM SPACERS AND REMOVED TEMPORARY SPACERS. 4607100

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/11/85	01-EPI-B -1B	018339	INSTALL STYROFOAM SPACERS BETWEEN BATTERIES & RACKS	INSTALLED STYROFOAM AND WOODEN SPACERS BETWEEN BATTERIES & RACKS. INSTALLED CAT 1 STYROFOAM SPACERS & REMOVED TEMPORARY SPACERS.
0229	05/11/85	01-FH -CRN -5	019046	INSPECT & REPAIR AS NECESSARY	REPLACED FOUR SCR'S AND TESTED HOIST BY INSTALLING JUMPERS IN CONTROL CABINET TO OPERATE HOIST UP AND DOWN. HOIST OPERATED PROPERLY IN BOTH DIRECT. REMOVED JUMPERS.
0229	05/11/85	01-FP -P -1	019146	MOTOR FIRE PUMP TROUBLE ALARM, TROUBLESHOOT WITH OPS	RUNNING IN AUTO WITH NO PROBLEM
0229	05/11/85	01-RC -P -1B	019380	REMOVE & RE-INSTALL BENTLEY-NEVADA FOR MECH. SEAL WORK	CHECKED MOUNTING BOLTS FOR TIGHTNESS. ADJUSTED SHAFT PICK-UPS.
0229	05/11/85	01-RC -P -1B	019431	PERFORM BREAKAWAY CHECK ON MOTOR	BREAKAWAY TEST PERFORMED SAT ON 1-RC-P-1B AT 225FT/LBS.
0229	05/11/85	01-RH -P -1B	019434	CHECK OIL LEVEL AND ADD OIL	CHECKED OIL LEVEL IN UPPER AND LOWER RESERVOIR. OIL LEVEL CHECKED SAT
0229	05/11/85	01-SE -MISC-NA	019486	REPLACE ELECTRIC LOCK/STRICKER ON MCR/1 DOOR	REPLACED PARTS IN LOCKS SECURITY ACCEPTED
0229	05/11/85	01-SI -MOV -1863A	019198	PM - ON DEMAND	PERFORMED PM SI-MOV-E/R1 AND EMP-C-MOV-143 COMPLETED
0229	05/13/85	01-RH -MOV -1700	019574	VALVE WILL NOT CLOSE ELECTRICALLY.	CHECK SWITCH MAKE-UP IN THE CLOSE DIRECTION BY ESK6BW WITH OHMMETER FOUND TORQUE SWITCH OPEN. BY DIRECTION OF SHIFT SUPERVISOR INSTALLED JUMPER BETWEEN XI AND 53 ETC SEE WO
0229	05/13/85	01-RS -MOV -155A	018874	MOTOR OPERATOR NEEDS TO BE ADJUSTED SO THAT VALVE WILL FULLY OPEN	ASSISTED MOVATS TESTING THE MOV. ADJUSTMENTS PERFORMED FOR PROPER STROKE. VALVE DRAWS EXCESSIVE CURRENT IN BOTH OPEN/CLOSE DIRECTION NOTE MOVATS RECOMMENDATIONS ATTACHE
0229	05/13/85	01-RS -MOV -155B	018875	MOTOR OPERATOR NEEDS TO BE ADJUSTED SO THAT VALVE WILL FULLY OPEN	SET LIMITS, REPLACED TORQUE SWITCH. FOUND TORQUE SWITCH TO BE DEFECTIVE TESTED VALV WITH MOVATS. MOVATS ANALYSIS IS ATTACHED.
0229	05/14/85	01-BD -TV -100C	013251	REPLACE SNAP-LOCK SWITCH, CAUSING VALVE TO SHOW INTERMEDIATE.	SNAP LOCK SWITCH NEEDS TO BE REPLACED. THE LOWER ONE FOR RED LGT CUT OFF. WATER IS IN SWITCH
0229	05/14/85	01-FW -FCV -149B	019590	ADJUST LIMIT SWITCHES	ADJUSTED LIMITS CHANGED LIGHTS LEAD S WIRE
0229	05/24/85	01-CH -P -2A	019924	PUMP THERMALS	RESET OVERLOAD ASSEMBLY BRIDGED MEGGERED MOTOR AND TEST RAN SAT
0229	05/24/85	01-RI -ALM -A-A-6	019739	ALARM LOCKED IN, NEITHER CHANNEL AT ALARM SETPOINT	NO PROBLEM FOUND BY ELECT. INST TECHS NEED TO DO A TEST ON ALARM SETPOINT ALARM CLEAR NO PROBLEM FOUND NO WORK PERFORMED
0229	05/24/85	01-SW -MOV -103C	016243	ASSIST MOVATS IN TROUBLESHOOTING	WORKED WITH MOVATS TROUBLESHOOTING VALVE 1-SW-103C.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

SEE THE ATTACHED

VEPCO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
 FROM 05/01/85 THRU 05/31/85  
 UNIT 02 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
R04	05/06/85	02-EPH-BKR -25J4	015717	PM - AUTO SCHEDULE	PERFORMED PMS
R04	05/07/85	02-EPH-BKR -25J11	015723	PM - AUTO SCHEDULE	PERFORMED PMS
R04	05/07/85	02-EPH-BKR -25J8	015719	PM - AUTO SCHEDULE	COMPLETED PMS
R04	05/07/85	02-EPH-BKR -25J9	015721	PM - AUTO SCHEDULE	COMPLETED PMS
R04	05/09/85	02-EPH-BKR -25H11	015715	PM - AUTO SCHEDULE	BREAKER TESTED SAT
R04	05/11/85	02-EPH-BKR -25H7	015711	PM - AUTO SCHEDULE	COMPLETED PM AND INSPECTION ON 25H7. BREAKER TESTED SAT

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/07/85	02-EG -C -1	018226	REPLACE MOTOR BEARINGS	DISCONNECTED MOTOR AND MOTOR LEADS REPLACED BEARINGS, RECONNECTED MOTOR RAN MOTOR UNCOUPLED TEST RAN MOTOR PERFORMED PMS ON BATTERIES
0229	05/07/85	02-EPD-B -2B	018877	PM - ON DEMAND	PERFORMED PMS
0229	05/07/85	02-EPH-BKR -25H8	015712	PM - AUTO SCHEDULE	PERFORMED PMS
0229	05/07/85	02-EPH-BKR -25J7	004680	REPLACE PIN AND SPRING	REPLACED SPRING AND COTTER PIN ON 25J7 BREAKER
0229	05/07/85	02-EPH-BKR -25J8	004681	REPLACE PIN AND SPRING	INSTALLED SPRING & COTTER PIN.
0229	05/07/85	02-EPH-BKR -25J9	004682	REPLACE PIN AND SPRING	REPLACED SPRING AND COTTER PIN.
0229	05/07/85	02-EPL-BKR -24J15	019134	REPAIR BKR TRIP DEVICE	REPLACED 'C' PHASE TRIP DEVICE 5/1. 44310-ABC-10-2-4A SPARE USED
0229	05/07/85	02-EPL-MCJ -1-3	018994	PM - ON DEMAND	PERFORMED PMS
0229	05/07/85	02-EPL-MCJ -1-4	018995	PM - ON DEMAND	PERFORMED PMS
0229	05/07/85	02-EPL-MCJ -1-5	018997	PM - ON DEMAND	PERFORMED PMS
0229	05/09/85	02-EPH-BKR -25H4	018534	PM - ON DEMAND	PERFORMED PMS UP TO STEP 5.23 5/8/85. COMPLETED PMS 5/9/85
0229	05/09/85	02-EPH-BKR -25H8	004673	REPLACE PIN AND SPRING	INSTALLED SPRING AND COTTER PIN. UNABLE TO TEST BREAKER IN CUBICLE. BREAKER TESTED SAT. 5/5/85
0229	05/09/85	02-EPH-BKR -25H9	004672	REPLACE PIN AND SPRING	REPLACED SPRING & PIN. BREAKER TESTED SAT 5/4/85
0229	05/09/85	02-EPH-BKR -25J4	004678	REPLACE PIN AND SPRING	REPLACED COTTER PIN AND SPRING. BREAKER TESTED SAT.
0229	05/09/85	02-RH -P -1B	012448	INSPECT & ADD OIL IF NECESSARY	ADDED 2 QTS OF OIL 3/21/85. MOTOR DISCONNECTED/OIL DRAINED 4/20/85. MTR CONNECTED 4/30. HOOKED UP THERMO TESTED SAT. ADDED OIL IN UPPER, GREASED LOWER/PERF EMP-C-EPH-90SAT
0229	05/11/85	02-EP -BKR -25J3	006488	REPLACE AGASTAT 62-7014PB ON BREAKER 25J3	REPLACED AGASTAT AND TESTED. AGASTAT REPLACED BECAUSE ORIGINAL DID NOT HAVE CERTIFICATION AGASTAT 4606028
0229	05/11/85	02-EPH-BKR -25H4	004641	REPLACE PIN AND SPRING	MFGR DATE 10-69 SERIAL #44252-F3-9- 10B PIN AND SPRING INSTALLED BREAKER TESTED SAT, PIN 4604937 SPRING 4604936
0229	05/11/85	02-EPH-BKR -25H7	004655	REPLACE PIN AND SPRING	MANUFACTURES DATA: ITE SERIAL NUMBER :44252-F3-3-10B; COMPLETED PROCEDUR E PIN:4604937 SPRING:4604936
0229	05/11/85	02-EPL-MCH -1-1	019118	PM - ON DEMAND	SPARE BKR USED. BREAKER IS ORIGINALLY FROM NORTH AND WAS SET UP TO THE SPECIFICATION OF THE ORIGINAL 24H1-1 BREAKER. BREAKER TESTED SAT 2000A BREAKER (1) 3201748

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/11/85	02-EPL-MCH -1-5	019117	PM - ON DEMAND	PERFORMED PMS ON BREAKER 24H1-5 SAT
0229	05/11/85	02-EPL-MCH -1-6	019116	PM - ON DEMAND	PERFORMED PMS ON BREAKER 24H1-6 AND TESTED SAT
0229	05/11/85	02-EPL-MCJ -1	018954	PM - ON DEMAND	PERFORMED PMS SAT ON BREAKER 24J1
0229	05/17/85	02-EP -BKR -124B	002363	REPLACE BREAKER	CHANGE BREAKER OUT BRIDGE AND MEGGERED THE CKT AMP 10.3 10.2 BREAKER REMOVED FROM MCC 2H1-14B BY DC 84-66
0229	05/17/85	02-EP -BKR -25H3	006485	REPLACE AGASTAT 62-7014PB ON BREAKER 25H3	REPLACED AGASTAT, UNABLE TO TEST IN CUBE. REPLACED AGASTAT & TESTED IAW EMP-C-RT-45. AGASTAT REPLACED AS ORIGINAL WAS INSTALLED WITH NO PAPERWORK.
0229	05/17/85	02-EPH-BKR -25H3	004640	REPLACE PIN AND SPRING	REPLACED PIN/SPRING IN BREAKER UP TO STEP 5.16. BREAKER TESTED SAT.
0229	05/17/85	02-EPH-BKR -25H4	013585	PERFORM PROTECTIVE RELAY MAINT	MEGGERED, RELAYS TESTED, CHANGED FUSES AS PER DC 84-86. OPERATIONAL CHECKED.
0229	05/17/85	02-RH -MOV -2701	018960	ASSIST MOVATS IN TESTING VALVE	MOVATS TEST COMPLETED
0229	05/17/85	02-RH -MOV -2701	019491	CHECK AND ADJUST LIMITS	SET CLOSED LIMITS. CYCLED ULV SAT.
0229	05/21/85	02-RH -P -1A	012449	INSPECT & ADD OIL IF NECESSARY	ADDED OIL 1 QT LIFTED AND REMOVED WIRES ON THERMOCOUPLE. BROKE MTR LEADS LOOSE. REMOVED MTR LEAD BOX DRAINED OIL OFF UPPER AND LOWER BEA RINGS REMOVED THERMOCOUPLE ETC/WO
0229	05/23/85	02-FW -MOV -251B	011243	REPLACE AGASTAT TIMER	REPLACED AGASTAT TIMER, TESTED SAT.
0229	05/24/85	02-RC -P -1A	019621	BRIDGE AND MEGGAR 'A' RCP	BRIDGED & MEGGERED MOTOR. SAT.
0229	05/27/85	02-CH -HCV -2200A	018788	ELECT. DISCONNECT/RECONNECT	MECHANICALLY REMOVE LIMIT SWITCHES AND SOV 4/27/85 SOV AND AIR LINE WAS ALREADY INSTALLED. WE INSTALLED LIMIT SWITCHES 5/18/85. PROCEDURE STOPPED AT STEP 5.5 DANIELS 85-266



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/27/85	02-CH -HCV -2200B	018787	ELECT. DISCONNECT/RECONNECT	MECHANICALLY REMOVE LIMIT SWITCHES AND SOV SOV AND AIR LINE WAS ALREADY INSTALLED, WE INSTALLED LIMIT SWITCHES. PROCEDURE STOPPED AT STEP 5.5 DANIELS COMPLETED ON EWR 85-266
0229	05/27/85	02-CH -TV -2204	019942	ADJUST LIMITS	ADJUSTED LIMITS VALVE CYCLED SAT
0229	05/28/85	02-EG -C -2	018227	REPLACE MOTOR BEARINGS	DISCONNECTED MOTOR AND MARKED LEADS RECONNECTED MOTOR, RAN MOTOR UNCOUPLED. BEARINGS 160700 - 1631167
0229	05/28/85	02-EPL-E -A7	017773	EXCESSIVE "O" RING LEAKAGE ASP	TORQUED TO 140 FT/LBS FOUND NO LEAK ON FLANGE. GAUGE WAS READING 14 LBS WHEN WE LEFT JOB SITE. PLUGS DISCONNECTED FROM PENETRATION/RECONNECTED TORQUED BOLTS TPC 150 FT/LBS
0229	05/28/85	02-SI -MOV -2890A	018953	CHECK TORQUE & LIMIT SWITCH,	CONTROL ROOM CYCLED 2-SI-MOV-2890A AND CYCLED FINE CLEARED SAT. LIMIT SWITCH MAKEUP WAS SATISFACTOR Y LIGHT INDICATIONS SAT
0229	05/28/85	02-BS -TV -200B	017832	ELECTRICAL DISCONNECT/RECONNECT	FOUND AIR TO BE TURNED OFF, TURNED AIR ON AND VALVE WORKED OK NO LIMIT ADJUSTMENTS WAS NECESSARY
0229	05/28/85	02-SW -MOV -204A	008371	ELECT. DISCONNECT & RECONNECT	DISCONNECTED 3/28/85 RECONNECTED 5/15/85 TEST RAN SAT 5/28/85
0229	05/29/85	02-CV -TV -250A	017678	ELECTRICAL DISCONNECT/RECONNECT	REMOVED SOLENOID & LIMIT SWITCHES, DANIELS WORKING LIMIT SWITCHES AS PER EWR 85-266. VALVE CYCLES SAT. ALL LIMIT ADJUSTMENTS/LIMIT REPLACEMENT DONE BY DANIELS ON EWR 85-266.
0229	05/29/85	02-CV -TV -250B	017679	ELECTRICAL DISCONNECT/RECONNECT	REMOVED SOLENOID & LIMIT SWITCHES, DANIELS WORKING LIMIT SWITCHES AS PER EWR 85-266. VALVE CYCLED SAT. ALL LIMIT ADJUSTMENTS & REPLACEMENT WERE DONE BY DANIELS ON EWR 85-266.
0229	05/29/85	02-CV -TV -250C	017930	ELECT. DISCONNECT/RECONNECT	REMOVED SOLENOID & LIMIT SWITCHES, DANIELS WORKING LIMIT SWITCHES ON EWR 85-266. VALVE CYCLED SAT. ALL LIMIT ADJUSTMENTS & REPLACEMENT WAS PERFORMED BY DANIELS ON EWR 85-266.
0229	05/29/85	02-CV -TV -250D	017929	ELECT. DISCONNECT/RECONNECT	REMOVED SOLENOID & LIMIT SWITCHES, DANIELS WORKING LIMIT SWITCHES AS PER EWR 85-266. VALVE CYCLED SAT. ALL LIMIT ADJUSTMENTS & REPLACEMENT BY DANIELS ON EWR 85-266
0229	05/29/85	02-EPL-HCJ -3	018956	PH - ON DEMAND	BREAKER TESTED SAT PER PROCEDURE
0229	05/29/85	02-SI -MOV -2842	019876	DISCONNECT/RECONNECT MOV FOR MECHS.	DISCONNECT LIMIT SWITCH AND MOTOR FOR MECH DEPT. RECONNECTED AND COMP READING TAKEN 5/29/85
0229	05/29/85	02-SW -MOV -205C	008361	ELECT. DISCONNECT/RECONNECT	DISCONNECTED MOV 3/28/85 RECONNECTED MOV AND CYCLE VALVE 05/28/85.



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0229	05/29/85	02-SW -MOV -205C	017959	PM - ON DEMAND	PERFORMED PM AND CYCLED VALVE SAT 5/29/85
0229	05/30/85	02-CH -HCV -2200C	018785	ELECT. DISCONNECT/RECONNECT	MECHANICALLY REMOVE LIMIT SWITCHES AND SOV 4/27/85 SOV AND AIR LINE WAS ALREADY INSTALLED WE INSTALLED LIMIT SWITCHES 5/18/85. PROCEDURE STOPPED AT STEP 5.5 DAINELS EMR-266
0229	05/30/85	02-RC -LCV -2460A	020003	LIMIT SWITCHES NEED ADJUSTMENT	SOV PASSING AIR, WILL NOT CYCLE OPEN ALL THE WAY. REPLACED SOLENOID AND SOLENOID VALVE SOV-0760486
0229	05/30/85	02-RPI-ROD -CRDM	012716	DISCONNECT, REPAIR, RECONNECT	DISCONNECTED PLUGS AT PLUG BOX FULL LENGTH CRDMS 3-28-85. HEAD VENT SOV'S DISCONNECTED. ALL CABLES RECONNECTED AND READINGS SAT
0229	05/30/85	02-SI -MOV -2842	017676	ELECTRICAL DISCONNECT/RECONNECT	ELECTRICALLY DISCONNECTED 2-SI-MOV-2842 4/17/85 ELECTRICALLY CONNECTED 5/15/85
0229	05/30/85	02-SI -MOV -2842	018467	PM - ON DEMAND	PM VALVE WITH PROCEDURE SI-MOV-E/R1 EMP-C-MOV-143
0229	05/30/85	02-SI -TV -201B	019821	ELECT. DISCON/RECON SWITCHES	LIMIT SWITCHES REMOVED BY FURMANITE 5/2/85 ADJUSTED LIMIT SWITCHES 5/30/85
0229	05/30/85	02-SW -MOV -204B	008370	ELECT. DISCONNECT & RECONNECT	DISCONNECTED MOV. NEED GASKET & COVER BOLT. RECONNECTED MOV. TEST RUN 5/28
0229	05/30/85	02-SW -MOV -204C	008369	ELECT. DISCONNECT & RECONNECT	DISCONNECTED MOV 3/28. NEED GASKET AND 3 LUGS. RECONNECTED MOV 5/15. TEST RUN SAT 5/28.
0229	05/30/85	02-SW -MOV -204D	008368	ELECT. DISCONNECT/RECONNECT	DISCONNECTED MOV. NEED COVER BOLT 3/28. RECONNECTED 5/16. TEST RUN 5/28.
0229	05/30/85	02-SW -MOV -205A	017961	PM - ON DEMAND	PERFORMED PMS ON MOV AND CYCLED VALVE SAT 5/30/85
0229	05/31/85	02-CH -HCV -2303B	018912	VALVE SWITCH IN CLOSED POSITION	VALVE LOCATED IN CONT BASEMENT COULD NOT CYCLE VALVE. IS TAGGED OUT AIR IS ISOLATED. CHECKED SOV FOUND STICKING. REPLACED SOLENOID VALVE OPERATED SAT. SOV-0760486
0229	05/31/85	02-SW -MOV -205A	008363	ELECT. DISCONNECT & RECONNECT	DISCONNECTED MOV MISSING COVER BOLT RECONNECTED VALVE CYCLED VALVE SAT 5/29/85

**MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS**

**UNIT NO. 1**

**INSTRUMENT MAINTENANCE**

SEE THE ATTACHED

VEP/CO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
FROM 05/01/85 THRU 05/16/85  
UNIT 01 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0237	05/07/85	01-GW -PI -107	018549	NEEDLE IS PEGGED ON BACKSIDE OF PIN	REPLACED BROKEN GAUGE WITH NEW CALIBRATED GAUGE.
0237	05/07/85	01-GW -RM -130-1	019213	INOPERABLE	NO PROBLEM, WORK NOT NECESSARY. MONITORS WERE OUT DUE TO WORK ON 'J' BUS
0237	05/07/85	01-GW -RM -130-2	019211	INOPERABLE	NO PROBLEM, WORK NOT NECESSARY. MONITORS WERE OUT DUE TO WORK ON 'J' BUS
0237	05/07/85	01-NI -DETR-31	018364	ERRATIC SPIKING	OBSERVED DRAWER FOR ERRATIC SPIKING NONE OBSERVED. CHECKED DRAWER PERFORMANCE DURING PT 1.1, DRAWER OPERATION SAT. PT SENT TO ENGINEERING.
0237	05/07/85	01-NI -DETR-32	019003	NI-32 HAS LOSS OF DETECTION- NO LOSS OF DETECTION VOLTAGE	NI-32 SOURCE RANGE LOSS OF DETECTOR VOLTAGE BISTABLE HAD DRIFTED. ADJUSTED LOSS OF DETECTOR BISTABLE. RE-CHECKED TRIP & RESET, CHECKED SAT.
0237	05/07/85	01-RI -RMS -130-1	018926	EQUIP FAILURE LIGHT IS IN	FOUND FAULTY CONNECTIONS IN THE HASTINGS FLOW TRANSDUCER. CORRECTED THE CONNECTIONS. OP CHECKED SAT
0237	05/07/85	01-RPI-MISC-N-9	018976	IRPI INDICATES HIGH	LEVELED INDICATOR LOOP HAS MR TO ELECTRICIANS.
0237	05/07/85	01-VG -RM -131-2	019212	INOPERABLE	NO PROBLEM, WORK NOT NECESSARY. MONITORS WERE OUT DUE TO WORK ON 'J' BUS.
0237	05/09/85	01-FW -FCV -498	017103	INVESTIGATE EXCESSIVE DEMAND SIGNAL ON CONTROLLER	SET-UP E/P & VALVE STROKE. VALVE WAS GOING FULL OPEN WITH 70% DEMAND SIGNAL. CHECKS SAT.
0237	05/11/85	01-RC -RTD -NA	017811	RTD LOCATED AT 2', EL AUX BLDG	CONSTRUCTION REMOVED CONAX CONNECTORS ON DC -83-27. THIS CORRECTED THE PROBLEM. VERIFIED PROPER DISPLAY MONITOR.
0237	05/11/85	01-SI -2 -A	019122	PERFORM SETPOINT CHANGE 85-08 TIMER RESCALE USING EMP-C-RT-45	PERFORMED SETPOINT CHANGE 85-08 COMPLETED PROCEDURE EMP-C-RT-45 TEST SAT
0237	05/24/85	01-SI -LI -1928	019623	3X ERROR BETWEEN LI 1928 AND LI 1930	ADJUSTED INDICATOR TO MINIMIZE DEVIATION BETWEEN CHANNELS. PT SENT TO ENGINEERING.
0237	05/24/85	01-SI -LI -1930	019625	3X ERROR BETWEEN LI-1930 AND LI-1928	CHECKED INDICATOR, INDICATOR CHECKED SAT. PT SENT TO ENGINEERING.
0237	05/25/85	01-RC -IL -VMS10	019985	YI-VMS-101B IS BLINKING. INVESTIGATE	DECREASED SENSITIVITY TO KEEP NOISE FROM TRIPPING ALARM

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

SEE THE ATTACHED

VEP-CO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
 FROM 05/01/85 THRU 05/31/85  
 UNIT 02 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY	
0237	05/03/85	02-FP -	-152	018575	EXCESSIVE LEAKAGE AS PER PT 18.4	DISASSEMBLED VALVE MADE REPAIRS TO SEATS
0237	05/07/85	02-CS -LI	-200D	016308	CALIBRATE CH IV 79% LEVEL.	PERFORMED REFUELING CALIBRATION UNDER WO #280012000. LOOP OF SAT. PT SENT TO ENGINEERING.
0237	05/07/85	02-RC -FI	-2416	011714	PERFORM REFUELING CALIBRATION	ADJUSTED TRANSMITTER OUTPUT TO SPECS, REPLACED TERMINAL SCREWS ON TRANSMITTER AND BOTH O-RINGS ADJUSTED FC-2-416 AND (FM-2-416 TO A SAT SETPOINT
0237	05/07/85	02-RC -FI	-2425	011712	PERFORM REFUELING CALIBRATION	ADJUSTED FM-425 WHILE ATTEMPTING TO CALIBRATE TRANSMITTER. FOUND TERMINAL SCREWS BADLY CORRODED. REPLACED TRANSMITTER USING IMP-C-MI-50 COMPLETED REFUELING CALIBRATION

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0237	05/07/85	02-RM -RMS -259	018939	ACTUAL FLOW RATE THRU MONITOR	ACTUAL FLOW READING (13SCFM) AND THE VACUUM INDICATION (16.8) CROSSREFER ENCE THE READING WITH THE GRAPH SHOWS THE CORRECTED FLOW TO BE 8 SCFM WHICH IS ADEQUATE FLOW.
0237	05/09/85	02-CH -FI -2122	011744	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION. MADE ADJUSTMENTS TO TRANSMITTER BECAUSE IT WAS OUT OF SPECS. ADJUSTED ZERO AND SPAN. PT SENT TO ENGINEERING.
0237	05/11/85	02-SI -REL -A/B	018562	IMPLEMENT ON UNIT 2 SETPOINT	RESET SETPOINT CHANGE (85-08) 60SEC EMP-C-RT-45, 2-SI-REL-A/B. COMPLETED PROCEDURE UP TO 6.2 POST MAIN. TEST. REQUIRES RELAY FOR OPERS TEST ON CIRCUITRY. NO PT TEST REQUIRED
0237	05/17/85	02-CC -FI -210A	017733	INDICATING ERRATICALLY, TV-CC-208A CLOSED	CALIBRATED TRANSMITTER, NO PROBLEM FOUND.
0237	05/17/85	02-MS -RV -201A	018612	REMOVE/INSTALL INSTRUMENTATION	REBUILT AND TESTED POSITIONER E/P.POSITIONER 1 EA 04557050 RELAY ASSEMBLY. E/P 1 EA 1486153 RELAY ASSY
0237	05/17/85	02-MS -RV -201C	018613	REMOVE/INSTALL INSTRUMENTATION	REBUILT & TESTED POSITION. E/P.
0237	05/17/85	02-NI -DETR-31	018266	SPIKING HI	CHECKED N-31 FOR SPIKING OBSERVED DRAWER,NO SPIKING IS EVIDENT. DRAWER IS OPERATING NORMAL.AGreed IN ACTIVITY WITH N-32 CHECKED DRAWER WITH PT-11 OPERATION SAT,PT TO EN
0237	05/21/85	02-FW -HCV -255A	019357	REMOVE/INSTALL INSTRUMENTATION	REMOVED INSTRUMENTATION AND REINSTALLED INSTRUMENTATION
0237	05/21/85	02-MS -PI -201C	012046	PERFORM REFUELING CALIBRATION	REPLACED CONTROLLER WITH READY SPARE.CALIBRATED TRANSMITTER,E/P PORV INDICATOR
0237	05/21/85	02-RM -RI -259	019128	FIX INTERNAL LEAKS, FAILED PT 18.9	RESEALED ELECTRICAL PENETRATION STOPPED LEAK
0237	05/24/85	02-MS -FI -2475	011635	PERFORM REFUELING CALIBRATION	ALIGNED FM-2-475D AS PER PT 2.9A CALIBRATED & COMPLETED REFUELING CAL. SAT. PT SENT TO ENGINEERING.
0237	05/24/85	02-MS -FI -2485	011637	PERFORM REFUELING CALIBRATION	COMPLETED REFUELING CAL. SAT. ADJUSTED FT-2-485 TO A SAT OUTPUT. PT SENT TO ENGINEERING.
0237	05/24/85	02-MS -FI -2494	011638	PERFORM REFUELING CALIBRATION	ALIGNED FM-2-494 AS PER IMP-C-RP-009 TO SAT OUTPUT.ALIGNED FM-2-494A AND FM-2494D TO SAT OUTPUT AS PER PT 2.9A CALIBRATED XMTR THUS COMPLETING REFUELING CAL SAT PT SENT ENG
0237	05/24/85	02-MS -FI -2495	011639	PERFORM REFUELING CALIBRATION	ALIGNED FM-2-495 AS PER IMP-C-RP-009 TO A SAT OUTPUT. ALIGNED FM-2-495 BOARD FC-2-495 AS PER PT 2.9A TO A SAT OUTPUT. PT SENT TO ENGINEERING.
0237	05/24/85	02-RC -PI -2455	011720	PERFORM REFUELING CALIBRATION	ADJUSTED ISOLATOR PH-455. ADJUSTED ZERO & SPAN OF TRANSMITTER PT SENT TO ENGINEERING WITH DEVIATION

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0237	05/24/85	02-RC -PI -2456	011721	PERFORM REFUELING CALIBRATION	CALIBRATED ISOLATOR PH-0-456 COMPARATORS PC-2-456A, B & D. LEAD/LAG CONTROLLER PH-2-456A COMPARETOR PC-2-456C & SCALED POTENTIOMETER P-2-422F. PT SENT TO ENGINEERING.
0237	05/24/85	02-SI -FI -2932	011814	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION. LOOP PERFORMANCE CHECKED SAT.
0237	05/24/85	02-SI -FI -2960	011817	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION. TRANSMITTER READ OUT OF SPEC. ADJUSTED TRANSMITTER ZERO & SPAN. LOOP PERFORMANCE CHECKS SAT.
0237	05/28/85	02-FW -LT -2486	017131	EMR 85-155, TRACKING THAT LVL	RESCALED LM-486A AS PER SETPOINT CHANGE 85-07A.PT SENT TO ENGINEERING
0237	05/28/85	02-MS -FI -2474	011634	PERFORM REFUELING CALIBRATION	COMPLETED REFUELING CAL ON RACK EQUIPMENT. ALIGNED FM-2472 AS PER IMP-C-RP-009 TO SAT OUTPUT. ALIGNED FM-2-474A TO SAT OUTPUT IAW PT 2.9A CAL. TRANSMITTER. PT SENT TO ENGR.
0237	05/28/85	02-MS -FI -2484	011636	PERFORM REFUELING CALIBRATION	ALIGNED FM-2-484 AS PER IMP TO SAT OUTPUT.COMPLETED REFUELING CAL SAT PT SENT TO ENGINEERING
0237	05/28/85	02-RC -LI -2474	011646	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION MADE ZERO AND SPAN ADJUSTMENTS ON LT-2-474 LOOP PERFORMANCE CHECK SAT.PT SENT TO ENGINEERING O-RING 4606180
0237	05/28/85	02-RC -LI -2475	011650	PERFORM REFUELING CALIBRATION	ADJUSTED LM-475 + LM-475A DEADBAND REFUELING CAL ZERO AND SPAN ADJUSTMENTS REQUIRED DUE TO POTS BEING MOVED DURING CONAX WORK PT SENT TO ENGINEERING
0237	05/28/85	02-RC -LI -2476	011653	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION MADE ADJUSTMENTS ON LT-2-476 ADJUSTED ZERO AND SPAN.LOOP PERFORMANCE CHECKED SAT.PT SENT TO ENGINEERING
0237	05/28/85	02-RC -LI -2484	011647	PERFORM REFUELING CALIBRATION	ADJUSTED DEADBAND ON LC-484. PERFORMED REFUELING CALIBRATION MADE ADJUSTMENT ON LT-2-484 ADJUSTED ZERO AND SPAN PT SENT TO ENGINEERING
0237	05/28/85	02-RC -LI -2485	011651	PERFORM REFUELING CALIBRATION	REFUELING CALIBRATION ZERO AND SPAN ADJUSTMENTS REQUIRED DUE TO POTS WERE MOVED TO PERFORM CONAX WORK.PT SENT TO ENGINEERING
0237	05/28/85	02-RC -LI -2486	011654	PERFORM REFUELING CALIBRATION	RESCALED LM-486 AND LC-486A PERFORMED REFUELING CALIBRATION MADE ADJUSTMENTS ON LT-2-486 ADJUSTED ZERO AND SPAN LOOP CHECK SAT PT TO ENGINEERING
0237	05/28/85	02-RC -LI -2494	011648	PERFORM REFUELING CALIBRATION	ADJUSTED SETPOINT LC-494.MINOR SPAN AND ZERO ON TRANSMITTER. PT SENT TO ENGINEERING PARTS 4606180



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
0237	05/26/85	02-RC -LI -2495	011652	PERFORM REFUELING CALIBRATION	REFUELING CALIBRATION ZERO AND SPAN ADJUSTMENTS REQUIRED ON TRANSMITTER DUE TO POTS BEING TURNED WHILE PERFORMING CONAX WORK PT SENT TO ENGINEERING
0237	05/28/85	02-RC -LI -2496	011655	PERFORM REFUELING CALIBRATION	REFUELING CALIBRATION ZERO AND SPAN ADJUSTMENT REQUIRED ON TRANSMITTER DUE TO POTS BEING TURNED WHILE PERFORMING CONAX WORK PT SENT TO ENGINEERING
0237	05/28/85	02-RC -FI -2457	011722	PERFORM REFUELING CALIBRATION	COMPLETED REFUELING CALIBRATION. SAT. PT SENT TO ENGINEERING.
0237	05/28/85	02-RH -PI -2600A	011831	PERFORM REFUELING CALIBRATION	REPLACED GAUGE WITH NEWLY CALIBRATED ONE
0237	05/29/85	02-RC -TE -NA	016576	CHECK OUT NEW WEEDS RTD'S	CHECKED CONTINUITY OF RTD ELEMENTS AND INSULATION RESISTANCE OF RTD LEADS. BENCH TEST OF ALL RTD'S SAT.
0237	05/31/85	02-SI -FI -2962	011819	PERFORM REFUELING CALIBRATION	PERFORMED REF CAL NEW TRANSMITTER INSTALLED





VIRGINIA POWER

June 14, 1985

Mr. Maurice R. Beebe  
Office of Resource Management  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Serial No. 85-459  
NO/JBL:acm  
Docket Nos. 50-280  
50-281  
License Nos. DPR-32  
License Nos. DPR-37

Dear Mr. Beebe:

VIRGINIA POWER  
SURRY POWER STATION UNIT NOS. 1 AND 2  
MONTHLY OPERATING REPORT

Enclosed is the Monthly Operating Report for Surry Power Station Unit Nos. 1 and 2 for the month of May, 1985.

Very truly yours,

W. L. Stewart

Enclosure (3 copies)

cc: Mr. J. Taylor, Director (12 copies)  
Office of Inspection and Enforcement

Dr. J. Nelson Grace (1 copy)  
Regional Administrator  
Region II

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

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