## Virginia Electric and Power Company RICHMOND, VIRGINIA 23261

May 12, 1976

Mr. William McDonald, Directo Office of Management Information a

Program Control

U.S. Nuclear Regulatory Commissi 20555

Washington, D. C.

PO&M/ALH:clw

Docket Nos. 50-280

50-281

License Nos. DPR-32

DPR-37

Dear Mr. McDonald:

Operating information for Surry Power Station, Unit Nos. 1 and 2, for the month of April 1976 is attached.

Very truly yours,

L. V.M. Stallings C. M. Stallings

Vice President-Power Supply and Production Operations

Attachment

cc: Mr. Norman C. Moseley

DOCKET NO. 50-280

UNIT Surry Unit No. 1

DATE 5-3-76

COMPLETED BY E.P. DeWandel

### AVERAGE DAILY UNIT POWER LEVEL

MONTH	APRIL		
AVEI DAY	RAGE DAILY POWER LEVEL (MWe-net)	DAY A	VERAGE DAILY POWER LEVEL (MWe-net)
1	0	17	767.2
2	0	18	767.5
3	0	19	765.0
4	697.0	20	762.4
5 .	758.5	21	766.4
6	757.7	22	754.2
. 7	754.2	23	723.1
8	756.9	24	737.6
. 9	760.0	25	752.0
10	760.3	26	753.8
11	750.5	27	415.5
12	761.4	<b>2</b> 8	0
13	760.3	<b>2</b> 9	0
14	756.6	30	0
15	761.1	31	
16	764.4		

#### 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.

Compute to the nearest whole megawatt.

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 level 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.

UNIT Surry Unit No. 1
DATE 5-3-76
COMPLETED BY E.P. DeWandel
DOCKET NO. 50-280

## **OPERATING STATUS**

1.	REPORTING PERIOD:	0001	760401	THROUGH _	2400	76043	
	HOURS IN REPORTING PE	RIOD:	720				,
2.	CURRENTLY AUTHORIZE	D POWE	R LEVEL (MWth)_	2441 MAX. DEPENDA	ABLE CAPA	CITY (MW	e-NET) 788
3.	LOWEST POWER LEVEL T	O WHICI	i specifically r	ESTRICTED (IF ANY) (M	We-NET):		
4.	REASONS FOR RESTRICT	ION (IF	ANY):				
				THIS			CUMULATIVE
	.1			REPORTING PERIOD	YR TO	DATE	. TO DATE
-			\	,	· · · · · · · · · · · · · · · · · · ·		
5.	HOURS REACTOR WAS CI	RITICAL	,	574	$_{2,5}$	46.3	19,042.6
6.	REACTOR RESERVE SHU	TDOWN	HOURS	0		<u>)                                     </u>	0
7.	HOURS GENERATOR ON	LINE	!	. <u>568.1</u>	2.5	28.6	18,373.1
8.	UNIT RESERVE SHUTDON	VN HOU	RS ;	0		0	0
9.	GROSS THERMAL ENERG	Υ .	i				
	GENERATED (MWH)			1,363,416	6,05	5,540	40,839,228
0.	GROSS ELECTRICAL ENE						
	GENERATED (MWH)		· · · · · · · · · · · · · · · · · · ·	447,670	1,97	7,450	13,428,993
1.	NET ELECTRICAL ENERG					<del></del>	
	(MWH)			426,326	1,88	1,552	12,728,432
12.	REACTOR AVAILABILITY	FACTO	R(1)	79.7%	87.		64.7%
13.	UNIT AVAILABILITY FAC			78.9%	87.	l %	62.4%
14.	UNIT CAPACITY FACTOR			7 - 19	82.7	2%	<u>54.9%</u>
15.	UNIT FORCED OUTAGE			21 19	11.7	7%	23.3%
16.	SHUTDOWNS SCHEDULED Refueling, Octol				E, AND DU	RATION O	F EACH):
7.	IF SHUT DOWN AT END O						
18.	UNITS IN TEST STATUS (F						
	OMIO IN ILOI OTATOO (I	MON I	o commencine of	Elitton, north 1112		••	
			-			DATE LA	
	•		•	•		FORECA	ST ACHIEVED
		•		INITIAL CRITICALITY			
				INITIAL ELECTRICAL			,
			,	POWER GENERATION			
			•	COMMERCIAL OPERATIO	N		
				•			•
(1)	REACTOR AVAILABILITY	FACTO		CTOR WAS CRITICAL EPORTING PERIOD	X 100 .	·	
2)	UNIT AVAILABILITY FAC	TOR		ERATOR ON LINE	X 100		
(3)	UNIT CAPACITY FACTOR		NET ELECTR	ICAL POWER GENERATE		OHD CIN D	FPORTING PERIO
		•		•	-MEIL V II	OOKS IN K	IN OKTING LENIOL
(4)	UNIT FORCED OUTAGE R	ATE		TAGE HOURS	CUI) OUTS	CE HOURS	X 100

# UNIT SHUTDOWNS

UNIT NAME Surry Unit No. 1

DATE 5-3-76

COMPLETED BY E.P. DeWandel

APRIL REPORT MONTH \_

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76–4	040176	F	115.25	A	1	Primary-to-secondary steam generator tube leak. Plugged leaking tubes.
76-5	040376	F	3.12	н	3 ,	Low level steam generator due to feed control system sensitivity. Corrected levels.
76–6	042776	F	80.29	A	1	Primary-to-secondary steam generator tube leak. Unit still out at the end of this report period.
						(1) REASON A EQUIPMENT FAILURE (EXPLAIN). B MAINT, OR TEST C REFUELING D-REGULATORY RESTRICTION E-OPERATOR TRAINING AND LICENSE EXAMINATION F-ADMINISTRATIVE G-OPERATIONAL ERROR (EXPLAIN) H-OTHER (EXPLAIN)

SUMMARY:

DOCKET NO. 50-281

UNIT Surry Unit No. 2

DATE 5-3-76

COMPLETED BY E.P. DeWandel

### AVERAGE DAILY UNIT POWER LEVEL

MONTHAI	PRIL		
AVERA DAY	AGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	743.1	17	731.1
2 _	744.3	18	733.6
3	720.1	19	679.3
4 _	735.7	20	469.9
5	737.8	21	547.4
6	736.9	22	1.9
7 _	736.8	23	0
8 _	738.1	24	<u> </u>
9 _	738.8	25	0
10	738.3	26	0 -
11	736.8	27	0.
12	735.8	28	00
13	733.9	29	
14 _	730.6	<b>30</b> ,	
15	730.8	31	and the second s
16 _	730.5		
16	/30.5		

### DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

On this form, list the average daily unit power level in MWe-net for each day in the reporting month. Compute to the nearest whole megawatt.

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 level 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.

UNIT Surry Unit No. 2	
DATE _5-3-76	
COMPLETED BY E.P. DeWandel	
DOCKET NO50-281	

## OPERATING STATUS

1.	REPORTING PERIOD:	0001	760401	THROUGH	2400 760	430 i
•	HOURS IN REPORTING P	ERIOD:	720			
2.	CURRENTLY AUTHORIZ	ED POWER	LEVEL (MWth).	2441 MAX. DEPEND	ABLE CAPACITY (MY	Ve-NET) 788
3.	LOWEST POWER LEVEL	TO WHICH S	SPECIFICALLY	RESTRICTED (IF ANY) (M	We-NET):	
4.	REASONS FOR RESTRIC	TION (IF A	NY):	•		
						•
				THIS		CUMULATIVE
				REPORTING PERIOD	YR TO DATE	TO DATE
				·		
s. ·	HOURS REACTOR WAS C	CRITICAL		505.5	2,159.5	17,789.1
6.	REACTOR RESERVE SHU	JTDOWN HO	οψRS		0	0
7.	HOURS GENERATOR ON	LINE		<u>504.7</u>	2,147.4	17,501.9
8.	UNIT RESERVE SHUTDO	WN HOURS	<b></b>	0	0	0
9.	GROSS THERMAL ENERG	GY		,		<del></del>
	GENERATED (MWH)	<i></i> .		1,175,103	5,052,578	39,560,71
0	GROSS ELECTRICAL EN	ERGY				
. <	GENERATED (MWH)			378,580	1,651,680	13,027,239
۱.	NET ELECTRICAL ENER				<del></del>	
	(MWH)			358,361	1,566,482	12,318,86
2.	REACTOR AVAILABILIT			70 00/	74.4%	67.6%
3.	UNIT AVAILABILITY FA			70 19	73.9%	66.5%
1	TINIT CAPACITY FACTOR	2 (3)		63.2%	<u>68.5%</u>	<u> 59.4%</u>
	UNIT CAPACITY FACTOR	• •			<u>68.5%</u> 20.1%	<u>59.4%</u> 20.1%
5.	UNIT FORCED OUTAGE	RATE (4) .		0 /	20.1%	20.1%
5.	UNIT FORCED OUTAGE	RATE (4) .			20.1%	20.1%
5. 6.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT	20.1% . E, AND DURATION C	20.1% F EACH):
5. 6. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT	20.1% E, AND DURATION C P: May 22, 197	20.1% F EACH):
5. 5. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT	20.1% E, AND DURATION C P: May 22, 197 E FOLLOWING:	20.1% F EACH):
5. 5.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT	20.1% E, AND DURATION C P: May 22, 197 E FOLLOWING: DATE LA	20.1% F EACH):  6 AST DATE
5. 5.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT	20.1% E, AND DURATION C P: May 22, 197 E FOLLOWING:	20.1% F EACH):  6 AST DATE
5. 5. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT	20.1% E, AND DURATION C P: May 22, 197 E FOLLOWING: DATE LA	20.1% F EACH):  6 AST DATE
5. 5. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT  MATED DATE OF STARTU  OPERATION) REPORT THE	20.1% E, AND DURATION C P: May 22, 197 E FOLLOWING: DATE LA	20.1% F EACH):  6 AST DATE
5. 6. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU PPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL	20.1% E, AND DURATION C P: May 22, 197 E FOLLOWING: DATE LA	20.1% F EACH):  6 AST DATE
5. 5. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION	20.1% E, AND DURATION C P. May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6  AST DATE
5. 5.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU PPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL	20.1% E, AND DURATION C P. May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6  AST DATE
5. 6. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION	20.1% E, AND DURATION C P. May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6 AST DATE
5. 5. 7.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END O UNITS IN TEST STATUS (	RATE (4) . D TO BEGIN OF REPORT (PRIOR TO C	N IN NEXT 6 MC	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6  AST DATE
5. 65. 7. 88.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE IF SHUT DOWN AT END O	RATE (4) . D TO BEGIN OF REPORT (PRIOR TO C	PERIOD, ESTIN	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION ACTOR WAS CRITICAL	20.1% E, AND DURATION C P. May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6 AST DATE
5. 65. 7. 88.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END O UNITS IN TEST STATUS (	RATE (4) . D TO BEGIN OF REPORT (PRIOR TO C	PERIOD, ESTIN COMMERCIAL C  HOURS REA HOURS IN I	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION ACTOR WAS CRITICAL REPORTING PERIOD	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6 AST DATE
5. 6. 7. 8.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END ( UNITS IN TEST STATUS (  REACTOR AVAILABILIT	RATE (4) D TO BEGIN OF REPORT (PRIOR TO C	PERIOD, ESTIN COMMERCIAL C  HOURS REA HOURS IN I	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION ACTOR WAS CRITICAL REPORTING PERIOD NERATOR ON LINE	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6 AST DATE
5. 6. 7. 8.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END O UNITS IN TEST STATUS (	RATE (4) D TO BEGIN OF REPORT (PRIOR TO C	PERIOD, ESTIN COMMERCIAL C  HOURS REA HOURS IN I	ONTHS (STATE TYPE, DAT  MATED DATE OF STARTU  PERATION) REPORT THE  INITIAL CRITICALITY  INITIAL ELECTRICAL  POWER GENERATION  COMMERCIAL OPERATION  ACTOR WAS CRITICAL  REPORTING PERIOD  NERATOR ON LINE	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA	20.1% F EACH):  6 AST DATE
5. 6. 7. 8.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END O UNITS IN TEST STATUS (  REACTOR AVAILABILITY FACE	RATE (4) D TO BEGIN OF REPORT (PRIOR TO C	HOURS IN I	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION ACTOR WAS CRITICAL REPORTING PERIOD NERATOR ON LINE	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA  ON X 100	20.1% F EACH):  6 AST DATE
5. 6. 7. 88.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END ( UNITS IN TEST STATUS (  REACTOR AVAILABILIT	RATE (4) D TO BEGIN OF REPORT (PRIOR TO C	HOURS IN IN HOURS IN HOU	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU PERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION ACTOR WAS CRITICAL REPORTING PERIOD NERATOR ON LINE REPORTING PERIOD	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA  ON X 100 ED	20.1% FEACH):  AST DATE AST ACHIEVED
4. 5. 6. 7. 8.	UNIT FORCED OUTAGE SHUTDOWNS SCHEDULE  IF SHUT DOWN AT END O UNITS IN TEST STATUS (  REACTOR AVAILABILITY FACE	RATE (4) D TO BEGIN OF REPORT (PRIOR TO C	HOURS REAL HOURS IN IN HOURS I	ONTHS (STATE TYPE, DAT MATED DATE OF STARTU OPERATION) REPORT THE INITIAL CRITICALITY INITIAL ELECTRICAL POWER GENERATION COMMERCIAL OPERATION ACTOR WAS CRITICAL REPORTING PERIOD NERATOR ON LINE REPORTING PERIOD CRICAL POWER GENERAT	20.1% E, AND DURATION CO P: May 22, 197 E FOLLOWING: DATE LA FORECA  ON X 100 ED	20.1% FEACH):  AST DATE AST ACHIEVED

**UNIT SHUTDOWNS** 

DOCKET NO. 50-281/
UNIT NAME Surry Unit No. 2

DATE 5-3-76

COMPLETED BY E.P. DeWandel

REPORT MONTH APRIL

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
76-5	042276	S	215.20	С	1	Refueling
					, —	
				,		
			•			
	Q.					
						(1) REASON A -EQUIPMENT FAILURE (EXPLAIN) B - MAINT. OR TEST C - REFUELING (2) METHOD 1 - MANUAL 2 - MANUAL SCRAM
•					•	D-REGULATORY RESTRICTION E-OPERATOR TRAINING AND LICENSE EXAMINATION  3-AUTOMATIC SCRAM
• •				•		F-ADMINISTRATIVE G-OPERATIONAL ERROR (EXPLAIN)
						H-OTHER (EXPLAIN)
· .						

SUMMARY: