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Calvert Cliffs Nuclear Power Plant

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July 15, 1994

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Document Control Desk  
  
SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318  
June 1994 Operating Data Reports

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The subject reports are being sent to you as required by Technical Specification 6.9.1.6.

This report includes a change in both units maximum dependable capacity gross and net (line items 6 and 7). The change became effective June 1, 1994. This change is also reflected in the calculations for "Unit Capacity Factor" (line item 21).

Should you have any questions, please contact Mr. Bruce Mrowca at (410) 260-3989.

Very truly yours,

CHC/FP/bjd

Attachments

cc: D. A. Brune, Esquire  
J. E. Silberg, Esquire  
M. K. Boyle, NRC  
D. G. McDonald, Jr., NRC  
T. T. Martin, NRC  
P. R. Wilson, NRC  
R. A. Hartfield, NRC  
R. I. McLean, DNR  
J. H. Walter, PSC  
P. Lewis, INPO  
K. Larson, ANI

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UNIT 1

OPERATING DATA REPORT

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Docket No. 50-317

July 15, 1994

Prepared by Frank Piazza

Telephone: (410) 260-3821

OPERATING STATUS

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1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	JUNE 1994
3. LICENSED THERMAL POWER (MWT)	2700
4. NAMEPLATE RATING (GROSS MWe)	918
5. DESIGN ELECTRICAL RATING (NET MWe)	845
6. MAXIMUM DEPENDABLE CAP'Y (GROSS MWe)	865
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	835
8. CHANGE IN CAPACITY RATINGS	NONE
9. POWER LEVEL TO WHICH RESTRICTED	N/A
10. REASONS FOR RESTRICTIONS	N/A

	This month	Year-to-Date	Cumulative to Date
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11. HOURS IN REPORTING PERIOD	720	4,343	167,844
12. NUMBER OF HOURS REACTOR WAS CRITICAL	572.9	1,684.0	118,653.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	556.9	1,451.1	116,029.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,399,227	3,548,811	293,863,630
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	456,919	1,171,996	97,645,542
18. NET ELECTRICAL ENERGY GENERATED (MWH)	435,051	1,116,636	92,920,918
19. UNIT SERVICE FACTOR	77.3	33.4	69.1
20. UNIT AVAILABILITY FACTOR	77.3	33.4	69.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	72.4	30.9	67.1
22. UNIT CAPACITY FACTOR (USING DER NET)	71.5	30.4	65.5
23. UNIT FORCED OUTAGE RATE	22.7	25.8	9.0

24. SHUTDOWNS SCHEDULED OVER THE NEXT  
SIX MONTHS (TYPE, DATE AND DURATION):  
N/A

25. IF SHUTDOWN AT END OF REPORT PERIOD,  
ESTIMATED DATE OF START-UP:  
N/A

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317  
 UNIT NAME Calvert Cliffs-U1  
 DATE July 15, 1994  
 COMPLETED BY Frank Piazza  
 TELEPHONE (410) 260-3821

REPORT MONTH June 1994

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
94-05	940527	F	129.9	A	4	N/A	TA	TRB	The unit was manually shutdown on May 27, 1994 due to number 7 Main Turbine Bearing overheating. The bearing was repaired and returned to service.
94-06	940612	F	0	A	5	N/A	JB	SC	Power was reduced on 6/12/94 at 1732 to correct speed oscillation problem with 11 Steam Generator Feed Pump. The problem was caused by a small amount of dirt in the pilot valve. The problem was corrected by cleaning the pilot valve.
94-07	940616	F	33.2	G	3	317/94006	TA	SHV	A reactor trip occurred on 6/16/94 at 0135 during a weekly Operations Performance Evaluation. The trip occurred during the testing when all Turbine Stop Valves closed. When the Turbine Stop Valves closed, the Main Turbine tripped which caused the Reactor to trip automatically on loss of load. An investigation team was immediately formed to determine the cause of the Stop Valves closure. The investigation is currently ongoing. The reactor was returned to power at 1047 on 6/17/94.

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

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

<sup>3</sup> Method:  
1 - Manual  
2 - Manual Scram.  
3 - Automatic Scram.  
4 - Continued  
5 - Reduced Load  
9 - Other

<sup>4</sup> IEEE Standard 805-1984

<sup>5</sup> IEEE Standard 803A-1983

# AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
Calvert Cliffs Unit No. 1  
July 15, 1994  
Prepared by Frank Piazza  
Telephone: (410) 260-3821

JUNE 1994  
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Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	0	17	234
2	0	18	843
3	0	19	848
4	0	20	845
5	0	21	848
6	142	22	845
7	590	23	848
8	720	24	846
9	720	25	848
10	731	26	847
11	821	27	849
12	750	28	845
13	744	29	846
14	822	30	845
15	829		
16	25		

DOCKET NO. 50-317  
CALVERT CLIFFS - UNIT 1  
July 15, 1994

## SUMMARY OF OPERATING EXPERIENCE

### June 1994

The unit began the month shutdown in mode 5 because of ongoing repairs to the number 7 Main Turbine Bearing. The bearing problem was detected on May 27, 1994. The bearing repairs were completed on June 4, 1994 and the unit was paralleled to the grid at 0954 on June 6, 1994.

On June 12, 1994 power reduction commenced at 1732 to allow repair of 11 Steam Generator Feed Pump oscillation problems. The problems were corrected and the unit began returning to full power at 0430 on June 13, 1994.

On June 16, 1994 the reactor tripped during an Operation weekly test of the Main Turbine Stop Valves. The trip occurred during the testing when all the Turbine Stop valves closed. The closure of the Turbine Stop valves tripped the Main Turbine and, subsequently, the Reactor. An investigation team was immediately formed to determine the root cause. On all subsequent tests the Turbine Stop Valves worked according to design. Vendor assistance was obtained to aide in determining the cause; their report is forthcoming. The unit was returned to power on June 17, 1994 at 1047. The unit ended the month a 100% reactor power.





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UNIT 2

OPERATING DATA REPORT

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Docket No. 50-318  
July 15, 1994  
Prepared by Frank Piazza  
Telephone: (410) 260-3821

OPERATING STATUS  
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1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	JUNE 1994
3. LICENSED THERMAL POWER (MWT)	2700
4. NAMEPLATE RATING (GROSS MWe)	911
5. DESIGN ELECTRICAL RATING (NET MWe)	845
6. MAXIMUM DEPENDABLE CAP'Y (GROSS MWe)	870
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	840
8. CHANGE IN CAPACITY RATINGS	NONE
9. POWER LEVEL TO WHICH RESTRICTED	N/A
10. REASONS FOR RESTRICTIONS	N/A

	This month	Year-to-Date	Cumulative to Date
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11. HOURS IN REPORTING PERIOD	720	4,343	151,199
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	4,023.1	110,059.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	720.0	4,018.2	108,541.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,938,670	10,663,175	277,528,718
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	638,606	3,575,295	91,731,164
18. NET ELECTRICAL ENERGY GENERATED (MWH)	613,340	3,433,976	87,677,110
19. UNIT SERVICE FACTOR	100.0	92.5	71.8
20. UNIT AVAILABILITY FACTOR	100.0	92.5	71.8
21. UNIT CAPACITY FACTOR (USING MDC NET)	101.4	95.1	70.3
22. UNIT CAPACITY FACTOR (USING DER NET)	100.8	93.6	68.6
23. UNIT FORCED OUTAGE RATE	0.0	4.2	5.7
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):	N/A		
25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP:	N/A		

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318  
 UNIT NAME Calvert Cliffs-U2  
 DATE July 15, 1994  
 COMPLETED BY Frank Piazza  
 TELEPHONE (410) 260-3821

REPORT MONTH June 1994

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
									There were no significant power reductions this month.

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

<sup>2</sup> Reason:  
 A - Equipment Failure  
 B - Maintenance or Test  
 C - Refueling  
 D - Regulatory Restriction  
 E - Operator Training & License Examination  
 F - Administrative

<sup>3</sup> Method:  
 1 - Manual  
 2 - Manual Scram.  
 3 - Automatic Scram.  
 4 - Continued  
 5 - Reduced Load  
 9 - Other

<sup>4</sup> IEEE Standard 805-1984

<sup>5</sup> IEEE Standard 803A-1983



# AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-318  
Calvert Cliffs Unit No. 2  
July 15, 1994  
Prepared by Frank Piazza  
Telephone: (410) 260-3821

JUNE 1994  
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Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	860	17	847
2	858	18	850
3	858	19	850
4	858	20	844
5	857	21	847
6	860	22	844
7	859	23	848
8	856	24	845
9	855	25	848
10	857	26	847
11	858	27	848
12	857	28	843
13	858	29	845
14	857	30	842
15	853		
16	847		

DOCKET NO. 50-318  
CALVERT CLIFFS - UNIT 2  
July 15, 1994

#### SUMMARY OF OPERATING EXPERIENCE

June 1994

The unit remained at 100% power the entire month.

**REFUELING INFORMATION REQUEST**

1. Name of facility: **Calvert Cliffs Nuclear Power Plant, Unit No. 2**
2. Scheduled date for next refueling shutdown: **February 18, 1995.**
3. Scheduled date for restart following refueling: **May 3, 1995.**
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?  
**Unknown.**
5. Scheduled date(s) for submitting proposed licensing action and supporting information.  
**Unknown.**
6. Important licensing considerations associated with the refueling.  
**None identified at this time.**
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.  

(a) 217(b) 1514 (Note 2)

**Spent fuel pools are common to Units 1 and 2.**
8. (a) The present licensed spent fuel pool storage capacity, and (b) the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.  

(a) 4710 (Note 1)(b) 0
9. The projected date of the last refueling that can be discharged to the Spent Fuel Pool assuming the present licensed capacity and maintaining space for one full core off-load.  
**March 2016.**

**NOTE 1:** 4710 total licensed site storage capacity.  
(1830 pool + 2880 ISFSI)

**NOTE 2:** 72 Spent Fuel Assemblies in the ISFSI.