



CHARLES CENTER • P.O. BOX 1475 • BALTIMORE, MARYLAND 21203-1475

R. E. DENTON  
GENERAL MANAGER  
CALVERT CLIFFS

September 14, 1992

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  
August 1992 Operating Data Reports

Gentlemen:

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

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

Very truly yours,

RED/LBS/bjd

Attachments

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

*Handwritten notes:*  
Cut to  
P098603366  
FEA  
11

180011

9209180040 920831  
PDR ADDOCK 05000317  
R PDR

\*\*\*\*\*  
 UNIT 1

OPERATING DATA REPORT

\*\*\*\*\*

Docket No. 50-317  
 September 14, 1992  
 Prepared by Leo Shanley  
 Telephone: (410) 260-6744

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	AUGUST 1992
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)	860
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	825
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
	-----		
11. HOURS IN REPORTING PERIOD	744	5,855	151,812
12. NUMBER OF HOURS REACTOR WAS CRITICAL	276.2	2,158.2	105,458.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	196.0	2,077.1	103,127.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	350,30	5,402,613	259,709,120
17. GROSS ELECTRICAL ENERGY GEN'TED (MWh)	111,060	1,787,777	86,323,465
18. NET ELECTRICAL ENERGY GENERATED (MWH)	103,521	1,712,723	82,068,228
19. UNIT SERVICE FACTOR	26.3	35.5	67.9
20. UNIT AVAILABILITY FACTOR	26.3	35.5	67.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	16.9	35.5	65.5
22. UNIT CAPACITY FACTOR (USING DER NET)	16.5	34.6	64.0
23. UNIT FORCED OUTAGE RATE	36.8	6.2	9.4
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 September 14, 1992  
 COMPLETED BY Leo Shanley  
 TELEPHONE (410)260-6744

REPORT MONTH August 1992

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
92-02	920320	S	431.9	C	4				Continued refueling outage from previous month.
92-03	920819	S	2.2	B	9	N/A	JJ	12	Unit taken off-line for Main Turbine overspeed testing.
92-04	920823	F	113.9	A	1	N/A	SB	PSX	1) Unit taken off-line and Reactor shut down due to a steam leak from a Main Steam Drain. 2) A crack was found which initiated in the weld between the drain line and drain pot. The fatigue failure was caused by stress on the drain line from interference with an EHC support, combined with motion of the Main Steam header. 3) Repaired drain line, removed support and performed walkdown to check for similar situations.
92-05	920831	F	0.0	A	5	N/A	SD	PSP	Power reduced to 65% to remove 11 Steam Generator Feed Pump from service and repair a seal water line.

<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

\*\*\*\*\*  
 Docket No. 50-317  
 Calvert Cliffs Unit No. 1  
 September 14, 1992  
 Prepared by Leo Shanley  
 Telephone: (410) 260-6744

AUGUST 1992  
 \*\*\*\*\*

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	105
4	0	20	261
5	0	21	540
6	0	22	701
7	0	23	373
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	264
13	0	29	725
14	0	30	728
15	0	31	616
16	0		

DOCKET NO. 50-317  
CALVERT CLIFFS - UNIT 1  
September 14, 1992

## SUMMARY OF OPERATING EXPERIENCE

### August 1992

The unit began the month in Mode 5.

Reactor Coolant System heat-up commenced August 6 and Hot Standby (Mode 3) was entered on August 7. Pre-criticality testing and various equipment repairs delayed criticality until 0500 on August 16. Low-power physics testing was then performed.

The unit was paralleled to the grid at 2352 on August 18 and power was raised to 30%. The unit was taken off the grid at 1457 on August 19 for Main Turbine overspeed testing.

The unit was re-parallelled at 1710 and returned to 30% power (155 MWe). Nuclear Instrument (NI) calibrations and Feed Regulating Valve repairs were performed as power was raised to 85% (700 MWe) between 1230 and 2300 on August 21.

The unit remained at 85% until 0340 on August 23 due to problems with Delta-T Power indication. Power was raised to 88% at 0715 on August 23.

At 1145 on August 23, an expeditious shutdown of the unit was commenced due to a steam leak from a cracked Main Steam Drain. The unit was removed from the grid at 1345 and the reactor was shutdown at 1425. Repairs were made to the drain line but the unit remained shutdown for another day due to a leaking letdown relief valve.

The reactor was taken critical at 2110 on August 27 and the generator was paralleled at 0740 the next day. The unit reached 88% power (725 MWe) at 0140 on August 29 and remained there due to problems with of Delta-T Power Channel 'C'.

Power was reduced to 65% (490 MWe) at 1351 on August 31 to repair the seal water piping to 11 Steam Generator Feed Pump.

The unit ended the month at 65% (490 MWe).

September 8, 1992

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: March 5, 1994\*.
3. Scheduled date for restart following refueling: May 17, 1994\*.
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

None identified at this time.\*

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

December 1993 for U1C12.\*

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) 1410.\*

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) 1830. (b) 2880.

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 1993

\* Entry has changed since last reported.

\*\*\*\*\*  
 UNIT 2

OPERATING DATA REPORT

\*\*\*\*\*

Docket No. 50-318  
 September 14, 1992  
 Prepared by Leo Shanley  
 Telephone: (410) 260-6744

OPERATING STATUS  
 -----

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	AUGUST 1992
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)	860
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	825
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
	-----		
11. HOURS IN REPORTING PERIOD	744	5,855	135,167
12. NUMBER OF HOURS REACTOR WAS CRITICAL	673.5	5,095.9	97,136.2
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	663.7	5,037.1	95,759.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,761,372	13,437,835	243,577,141
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	560,631	4,403,733	80,488,114
18. NET ELECTRICAL ENERGY GENERATED (MWH)	535,745	4,222,623	76,900,771
19. UNIT SERVICE FACTOR	89.2	86.0	70.8
20. UNIT AVAILABILITY FACTOR	89.2	86.0	70.8
21. UNIT CAPACITY FACTOR (USING MDC NET)	87.3	87.4	69.0
22. UNIT CAPACITY FACTOR (USING DER NET)	85.2	85.3	67.3
23. UNIT FORCED OUTAGE RATE	10.8	14.0	6.0
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION): Refueling, March 5, 1993 for 96 days			
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-1/2  
 DATE September 14, 1992  
 COMPLETED BY Leo Sharkey  
 TELEPHONE (410)260-6744

REPORT MONTH August 1992

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
92-08	920801	F	39.0	G	2	92-005	EA	SI	1) Unit was tripped due to a loss of feedwater. 2) An operator closed a breaker cubicle door, causing the breaker to trip due to a sensitive overcurrent relay. This de-energized a bus with condensate pumps, causing a low suction pressure trip of the Steam Generator Feed Pumps. 3) Corrective actions include maintenance, training, and procedural changes.
92-09	920817	F	41.3	A	3	92-006	SB	FCV	1) Unit tripped on an Asymmetrical Steam Generator Transient (ASGT). 2) During partial stroke test of 22 Main Steam Isolation Valve (MSIV), the valve went beyond 10% shut, causing difference in pressure between the Steam Generators greater than the ASGT setpoint. 3) It is believed that the hydraulic fluid dump valve did not shut quickly enough due to contaminated hydraulic fluid. The fluid was changed in both MSIVs.

<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

\*\*\*\*\*

Docket No. 50-318  
 Calvert Cliffs Unit No. 2  
 September 14, 1992  
 Prepared by Leo Shanley  
 Telephone: (410) 260-6744

AUGUST 1992  
 \*\*\*\*\*

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	689	17	769
2	0	18	0
3	180	19	105
4	821	20	813
5	825	21	827
6	824	22	827
7	823	23	826
8	825	24	823
9	825	25	824
10	824	26	824
11	822	27	821
12	822	28	822
13	821	29	822
14	823	30	823
15	825	31	823
16	825		

DOCKET NO. 50-318  
CALVERT CLIFFS - UNIT 2  
September 14, 1992

## SUMMARY OF OPERATING EXPERIENCE

### August 1992

The unit began the month at 100% (825 MWe).

The reactor was manually tripped at 2010 on August 1 due to a loss of feedwater flow caused by a loss of power to the Condensate Pumps. The unit was taken critical at 0420 on August 3 and paralleled at 1110. 100% power (825 MWe) was reached at 0220 on August 4.

The reactor tripped automatically at 2222 on August 17 due to 22 Main Steam Isolation Valve (MSIV) shutting more than 10% during a partial stroke test of the MSIV. The reactor was taken critical at 1243 on August 19 and the generator was paralleled at 1537. 100% power (825 MWe) was reached at 0630 on August 20.

The unit ended the month at 100% (825 MWe).

September 8, 1992

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2
2. Scheduled date for next refueling shutdown: March 5, 1993.
3. Scheduled date for restart following refueling: June 9, 1993.
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Not identified at this time.

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

December 4, 1992.

6. Important licensing considerations associated with the refueling.

The target length for this cycle will be 570 effective full power days.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.  
(a) 217. (b) 1410.\*

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) 1830. (b) 2880.

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 1993

\*Entry has changed since last reported.