

PETER E. KATZ
Plant General Manager
Calvert Cliffs Nuclear Power Plant

Baltimore Gas and Electric Company
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, Maryland 20657
410 495-4101



April 15, 1997

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
March 1997 Operating Data Reports

The subject reports are being sent to you as required by Technical Specification 6.6.4.

Should you have any questions, please contact Mr. Kenneth Greene at (410) 495-4385.

Very truly yours,

PEK/HOO/bjd

Attachments

cc: R. S. Fleishman, Esquire
J. E. Silberg, Esquire
A. W. Dromerick, NRC
Director, Project Directorate I-1, NRC
H. J. Miller, NRC
Resident Inspector, NRC

R. A. Hartfield, NRC
R. I. McLean, DNR
J. H. Walter, PSC
P. Lewis, INPO
K. N. Larson, ANI

9704210052 970331
PDR ADOCK 05000317
R PDR

CU

IE241



UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
April 15, 1997
Prepared by Herman O. Olsen
Telephone: (410) 495-6734

OPERATING STATUS

~~~~~

|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 1 |
| 2. REPORTING PERIOD                     | MARCH 1997            |
| 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-<br>to-Date | Cumulative<br>to Date |
|--|------------|------------------|-----------------------|
|--|------------|------------------|-----------------------|

|                                           |           |           |             |
|-------------------------------------------|-----------|-----------|-------------|
| 11. HOURS IN REPORTING PERIOD             | 744       | 2,160     | 191,965     |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL  | 744.0     | 2,160.0   | 139,455.5   |
| 13. REACTOR RESERVE SHUTDOWN HOURS        | 0.0       | 0.0       | 3,019.4     |
| 14. HOURS GENERATOR ON LINE               | 744.0     | 2,129.9   | 136,616.8   |
| 15. UNIT RESERVE SHUTDOWN HOURS           | 0.0       | 0.0       | 0.0         |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)  | 2,006,072 | 5,706,656 | 348,434,975 |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH) | 671,258   | 1,911,587 | 115,676,949 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 645,220   | 1,835,858 | 110,184,050 |
| 19. UNIT SERVICE FACTOR                   | 100.0     | 98.6      | 71.2        |
| 20. UNIT AVAILABILITY FACTOR              | 100.0     | 98.6      | 71.2        |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)  | 103.9     | 101.8     | 69.4        |
| 22. UNIT CAPACITY FACTOR (USING DER NET)  | 102.6     | 100.6     | 67.9        |
| 23. UNIT FORCED OUTAGE RATE               | 0.0       | 1.4       | 8.4         |

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 April 15, 1997  
 COMPLETED BY Herman O. Olsen  
 TELEPHONE (410) 495-6734

REPORT MONTH March 1997

| NO. | DATE | TYPE <sup>1</sup> | DURATION<br>(HOURS) | REASON <sup>2</sup> | METHOD OF<br>SHUTTING<br>DOWN<br>REACTOR <sup>3</sup> | LICENSEE<br>EVENT<br>REPORT # | SYSTEM<br>CODE <sup>4</sup> | COMPONENT<br>CODE <sup>5</sup> | CAUSE & CORRECTIVE<br>ACTION TO<br>PREVENT RECURRENCE      |
|-----|------|-------------------|---------------------|---------------------|-------------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|------------------------------------------------------------|
|     |      |                   |                     |                     |                                                       |                               |                             |                                | There were no significant power reductions for 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  
 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

## REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: March 1998
3. Scheduled date for restart following refueling: May 1998
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

N/A

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

N/A

6. Important licensing considerations associated with the refueling.

N/A

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

(a) 217

(b) 1520 (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 2007

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

NOTE 2: 360 Spent Fuel Assemblies in the ISFSI.  
Includes 92 new Batch 2P fuel assemblies and 26 offloaded fuel assemblies.

# AVERAGE DAILY UNIT POWER LEVEL

\*\*\*\*\*

Docket No. 50-317  
Calvert Cliffs Unit No. 1  
April 15, 1997  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

MARCH 1997

\*\*\*\*\*

| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 867                                    | 17  | 866                                    |
| 2   | 867                                    | 18  | 867                                    |
| 3   | 867                                    | 19  | 868                                    |
| 4   | 868                                    | 20  | 868                                    |
| 5   | 868                                    | 21  | 868                                    |
| 6   | 868                                    | 22  | 867                                    |
| 7   | 869                                    | 23  | 868                                    |
| 8   | 868                                    | 24  | 868                                    |
| 9   | 868                                    | 25  | 867                                    |
| 10  | 867                                    | 26  | 867                                    |
| 11  | 866                                    | 27  | 867                                    |
| 12  | 867                                    | 28  | 867                                    |
| 13  | 867                                    | 29  | 868                                    |
| 14  | 867                                    | 30  | 867                                    |
| 15  | 866                                    | 31  | 868                                    |
| 16  | 868                                    |     |                                        |

DOCKET NO. 50-317  
CALVERT CLIFFS - UNIT 1  
April 15, 1997

## SUMMARY OF OPERATING EXPERIENCE

March 1997

The unit operated at 100% power for the entire month.

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

OPERATING DATA REPORT

\*\*\*\*\*

Docket No. 50-318  
April 15, 1997  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

OPERATING STATUS

~~~~~

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	MARCH 1997
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
	-----	-----	-----
11. HOURS IN REPORTING PERIOD	744	2,160	175,320
12. NUMBER OF HOURS REACTOR WAS CRITICAL	337.9	1,753.9	131,596.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	336.3	1,752.3	129,887.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	777,451	4,511,411	333,605,795
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	262,080	1,513,092	110,250,506
18. NET ELECTRICAL ENERGY GENERATED (MWH)	249,486	1,451,747	105,428,930
19. UNIT SERVICE FACTOR	45.2	81.1	74.1
20. UNIT AVAILABILITY FACTOR	45.2	81.1	74.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	39.9	80.0	72.7
22. UNIT CAPACITY FACTOR (USING DER NET)	39.7	79.5	71.2
23. UNIT FORCED OUTAGE RATE	0.0	0.0	5.3
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:	05/04/97		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs-U2
 DATE April 15, 1997
 COMPLETED BY Herman O. Olsen
 TELEPHONE (410) 495-6734

REPORT MONTH March 1997

NO.	DATE	TYPE ¹	DURATION (HOURS)	REASON ²	METHOD OF SHUTTING DOWN REACTOR ³	LICENSEE EVENT REPORT #	SYSTEM CODE ⁴	COMPONENT CODE ⁵	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
97001	03/14/97	S	407.7	C	1	N/A	N/A	N/A	On 03/14/97 a reduction in power was commenced in preparation for the scheduled refueling outage. The outage commenced on 03/15/97 at 0016 when the unit was removed from the grid.

¹ F - Forced
 S - Scheduled

² 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

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

⁴ IEEE Standard 805-1984

⁵ IEEE Standard 803A-1983

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2
2. Scheduled date for next refueling shutdown: Unit is currently shutdown for refueling. *
3. Scheduled date for restart following refueling: May 4, 1997
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Yes.
 - a. License Amendment to adopt the requirements of Appendix J, Option B for Type B and C testing.
 - b. License Amendment to allow the substitution of a blind flange for the outside purge valve pressure boundary in Modes 1-4.
 - c. Deleted.
 - d. License Amendment to lower the reactor coolant flow which supports an increased number of steam generator tubes plugged.
 - e. Deleted.
 - f. License Amendment to allow electrosleeving as a repair method for steam generator tubes.
 - g. Unreviewed Safety Question to allow pressurization of the Service Water System in response to Generic Letter 96-06. *
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
 - a. November 26, 1996
 - b. August 1, 1996
 - c. Deleted
 - d. January 31, 1997
 - e. Deleted
 - f. July 26, 1996
 - g. March 6, 1997 *
6. Important licensing considerations associated with the refueling.
None.

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

(a) 191 *

(b) 1520 (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 2007

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

NOTE 2: 360 Spent Fuel Assemblies in the ISFSI.
Includes 92 new Batch 2P fuel assemblies and 26 offloaded fuel assemblies.

* Entry has changed since last reported.

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-318
Calvert Cliffs Unit No. 2
April 15, 1997
Prepared by Herman O. Olsen
Telephone: (410) 495-6734

MARCH 1997

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	791	17	-3
2	783	18	-3
3	777	19	-3
4	770	20	-3
5	763	21	-3
6	757	22	-3
7	751	23	-3
8	746	24	-3
9	739	25	-3
10	734	26	-3
11	728	27	-3
12	722	28	-3
13	715	29	-3
14	667	30	-3
15	-3	31	-3
16	-2		

DOCKET NO. 50-318
CALVERT CLIFFS - UNIT 2
April 15, 1997

SUMMARY OF OPERATING EXPERIENCE

March 1997

The unit began the month at 90% power as part of a gradual planned reduction in power (fuel coastdown), in preparation for the refueling outage.

Power was slowly reduced to 82% by 03/13/97 at 1800.

On 03/14/97 at 2058 power was reduced to support removing the Main Generator from the grid. The Main generator was removed from the grid and the Refueling Outage commenced on 03/15/97 at 0016.

The reactor coolant system was placed in a reduced inventory status on 03/22/97 at 1125 to support the planned Steam Generator Inspections. On 03/23/97 the unit entered mode 6, refueling with the reactor vessel head detensioned. The reactor coolant system exited the reduced inventory status on 03/23/97 at 2045.

The following significant work was completed or in progress during the month:

- Reactor Vessel Refueling.
- Steam Generator eddy current testing.

The unit was in mode 6 (refueling) for the remainder month.