

PETER E. KATZ  
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1650 Calvert Cliffs Parkway  
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410 495-4101



October 15, 1996

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  
September 1996 Operating Data Reports

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) 495-3989.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Peter Katz".

PEK/HOO/bjd

Attachments

cc: D. A. Brune, Esquire  
J. E. Silberg, Esquire  
Director, Project Directorate I-1, NRC  
A. W. Dromerick, 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

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PDR ADOCK 05000317  
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UNIT 1

OPERATING DATA REPORT

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Docket No. 50-317  
October 15, 1996  
Prepared by Herman O. Olsen  
Telephone: (410)495-6734

OPERATING STATUS

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|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 1 |
| 2. REPORTING PERIOD                     | SEPTEMBER 1996        |
| 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             | 720        | 6,575            | 187,596               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL  | 720.0      | 3,660.4          | 135,086.5             |
| 13. REACTOR RESERVE SHUTDOWN HOURS        | 0.0        | 0.0              | 3,019.4               |
| 14. HOURS GENERATOR ON LINE               | 720.0      | 3,554.2          | 132,277.9             |
| 15. UNIT RESERVE SHUTDOWN HOURS           | 0.0        | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)  | 1,931,022  | 9,282,542        | 336,784,546           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH) | 634,135    | 3,069,069        | 111,780,769           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 608,302    | 2,916,820        | 106,441,313           |
| 19. UNIT SERVICE FACTOR                   | 100.0      | 54.1             | 70.5                  |
| 20. UNIT AVAILABILITY FACTOR              | 100.0      | 54.1             | 70.5                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)  | 101.2      | 53.1             | 68.7                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)  | 100.0      | 52.5             | 67.1                  |
| 23. UNIT FORCED OUTAGE RATE               | 0.0        | 18.8             | 8.6                   |

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-Ui  
 DATE October 15, 1996  
 COMPLETED BY Herman O. Olsen  
 TELEPHONE (410) 495-6734

REPORT MONTH September 1996

| 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

# AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
Calvert Cliffs Unit No. 1  
October 15, 1996  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

SEPTEMBER 1996

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| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 837                                    | 17  | 846                                    |
| 2   | 839                                    | 18  | 849                                    |
| 3   | 840                                    | 19  | 849                                    |
| 4   | 840                                    | 20  | 849                                    |
| 5   | 841                                    | 21  | 850                                    |
| 6   | 842                                    | 22  | 849                                    |
| 7   | 840                                    | 23  | 850                                    |
| 8   | 840                                    | 24  | 849                                    |
| 9   | 840                                    | 25  | 851                                    |
| 10  | 839                                    | 26  | 852                                    |
| 11  | 839                                    | 27  | 851                                    |
| 12  | 839                                    | 28  | 851                                    |
| 13  | 841                                    | 29  | 852                                    |
| 14  | 842                                    | 30  | 851                                    |
| 15  | 844                                    |     |                                        |
| 16  | 844                                    |     |                                        |

## 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) 1474 (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:      288 Spent Fuel Assemblies in the ISFSI. \*

\*      Entry has changed since last reported.

DOCKET NO. 50-317  
CALVERT CLIFFS - UNIT 1  
October 15, 1996

## SUMMARY OF OPERATING EXPERIENCE

September 1996

The unit operated at 100% (approximately 840 MWe) for the entire month.

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UNIT 2

# OPERATING DATA REPORT

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Docket No. 50-318  
October 15, 1996  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

## OPERATING STATUS

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1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	SEPTEMBER 1996
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	720	6,575	170,951
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	6,448.3	127,691.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	720.0	6,420.2	125,993.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,919,423	17,078,769	323,408,980
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	623,534	5,651,537	106,841,065
18. NET ELECTRICAL ENERGY GENERATED (MWH)	598,701	5,426,646	102,156,090
19. UNIT SERVICE FACTOR	100.0	97.6	73.7
20. UNIT AVAILABILITY FACTOR	100.0	97.6	73.7
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.0	98.3	72.3
22. UNIT CAPACITY FACTOR (USING DER NET)	98.4	97.7	70.7
23. UNIT FORCED OUTAGE RATE	0.0	2.7	5.4
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 October 15, 1996  
 COMPLETED BY Herman O. Olsen  
 TELEPHONE (410) 495-6734

REPORT MONTH September 1996

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 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



# AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-318  
Calvert Cliffs Unit No. 2  
October 15, 1996  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

SEPTEMBER 1996

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Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	834	17	840
2	836	18	842
3	837	19	843
4	837	20	843
5	836	21	844
6	837	22	843
7	751	23	844
8	739	24	842
9	778	25	844
10	832	26	844
11	834	27	845
12	834	28	845
13	836	29	846
14	837	30	847
15	838		
16	837		

## REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2
2. Scheduled date for next refueling shutdown: March 14, 1997
3. Scheduled date for restart following refueling: April 28, 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. License Amendment to allow the use of a temporary closure in place of the equipment hatch in Modes 5 and 6.
  - d. License Amendment to lower the reactor coolant flow which supports an increased number of steam generator tubes plugged.
  - e. License Amendment to clarify wording on shutdown cooling maintenance Technical Specification to allow openings in containment during the maintenance.
  - f. License Amendment to allow electrosleeving as a repair method for steam generator tubes.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
    - a. October 1996
    - b. August 1, 1996
    - c. October 1996 \*
    - d. January 1997 \*
    - e. October 1996 \*
    - f. July 26, 1996

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) 217

(b) 1474 (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: 288 Spent Fuel Assemblies in the ISFSI. \*

\* Entry has changed since last reported.

DOCKET NO. 50-118  
CALVERT CLIFFS - UNIT 2  
October 16, 1996

## SUMMARY OF OPERATING EXPERIENCE

September 1996

The unit began the month at 100% power.

On 09/07/96 0230 power was reduced to 90% to perform waterbox cleaning. Power was restored to 100% on 09/09/96 at 1700

The unit remained at 100% power for the remainder of the month.