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1650 Calvert Cliffs Parkway
Lusby, Maryland 20657
410 495-4101



May 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
April 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 E. Katz", is written over a horizontal line.

PEK/HOO/bjd

Attachments

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

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UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
May 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                     | APRIL 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             | 719          | 2,903            | 183,924               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL  | 0.0          | 2,141.3          | 133,567.4             |
| 13. REACTOR RESERVE SHUTDOWN HOURS        | 0.0          | 0.0              | 3,019.4               |
| 14. HOURS GENERATOR ON LINE               | 0.0          | 2,139.6          | 130,863.3             |
| 15. UNIT RESERVE SHUTDOWN HOURS           | 0.0          | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)  | 0            | 5,619,077        | 333,121,081           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH) | 0            | 1,879,636        | 110,591,336           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | (2,619)      | 1,799,999        | 105,324,492           |
| 19. UNIT SERVICE FACTOR                   | 0.0          | 73.7             | 71.2                  |
| 20. UNIT AVAILABILITY FACTOR              | 0.0          | 73.7             | 71.2                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)  | 0.0          | 74.3             | 69.3                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)  | 0.0          | 73.4             | 67.8                  |
| 23. UNIT FORCED OUTAGE RATE               | 0.0          | 0.0              | 8.2                   |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT     |              |                  |                       |

SIX MONTHS (TYPE, DATE AND DURATION):

N/A

\* Time change

( ) Represents a negative value

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

05/31/96

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317  
 UNIT NAME Calvert Cliffs-U1  
 DATE May 15, 1996  
 COMPLETED BY Herman O. Olsen  
 TELEPHONE (410) 495-6734

REPORT MONTH April 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 |
|-------|--------|-------------------|---------------------|---------------------|-------------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|-------------------------------------------------------|
| 96002 | 033096 | S                 | 719.0               | C                   | 4                                                     | N/A                           | N/A                         | N/A                            | The unit was shutdown for a planned Refueling Outage. |

<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

May 15, 1996

Prepared by Herman O. Olsen

Telephone: (410) 495-6734

APRIL 1996

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

## REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: Unit shutdown for refueling March 30, 1996
3. Scheduled date for restart following refueling: May 31, 1996 \*
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Yes.

- a. License amendment to allow installation of a new diesel generator.
  - b. License amendment to reflect the new electrical distribution system configuration.
  - c. An amendment and exemption to allow the use of four lead fuel assemblies with advanced cladding materials.
  - d. License amendment to extend some instrument surveillances to allow a delayed start of the refueling outage.
  - e. License amendment to extend the requirement to do an ILRT so that the test does not have to be performed this outage.
  - f. License amendment to modify the MTC limits to account for additional steam generator tubes plugged.
  - g. License amendment which would allow the sleeving of steam generator tubes as a repair method.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
- a. October 2, 1995
  - b. November 1, 1995
  - c. July 13, 1995
  - d. October 20, 1995
  - e. January 16, 1996
  - f. March 28, 1996
  - g. November 30, 1995
6. Important licensing considerations associated with the refueling.

Physical modifications required to bring Calvert Cliffs in compliance with the Station Blackout rule will be completed in the 1996 Unit 1 refueling outage.

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

(a) 217

(b) 1522 (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: 240 Spent Fuel Assemblies in the ISFSI.**

**\* Entry has changed since last reported.**

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

## SUMMARY OF OPERATING EXPERIENCE

April 1996

The unit began the month in mode 5, cold shutdown. On 04/13/96 the unit entered mode 6, refueling with the reactor head detensioned. The following significant work was completed or in progress during the month:

- Reactor Vessel Refueling.
- physical modifications to bring Calvert Cliffs in compliance with the Station Blackout rule.
- Steam Generator eddy current testing.
- 1A Emergency Diesel Generator declared operational.

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UNIT 2

# OPERATING DATA REPORT

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Docket No. 50-318  
May 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	APRIL 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	719	2,903	167,279
12. NUMBER OF HOURS REACTOR WAS CRITICAL	719.0	2,776.3	124,019.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	719.0	2,748.2	122,321.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,925,811	7,314,368	313,644,579
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	642,198	2,443,262	103,632,790
18. NET ELECTRICAL ENERGY GENERATED (MWH)	617,436	2,343,931	99,073,375
19. UNIT SERVICE FACTOR	100.0	94.7	73.1
20. UNIT AVAILABILITY FACTOR	100.0	94.7	73.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	102.2	96.1	71.6
22. UNIT CAPACITY FACTOR (USING DER NET)	101.6	95.6	70.1
23. UNIT FORCED OUTAGE RATE	0.0	6.1	5.6
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):	N/A		
		* Time change	
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 May 15, 1996
 COMPLETED BY Herman O. Olsen
 TELEPHONE (410) 495-6734

REPORT MONTH April 1996

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
									There were no significant power reductions for this month.

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: March 14, 1997
3. Scheduled date for restart following refueling: April 23, 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 allow the personnel air lock to remain open during reduced electrical conditions.*
 - e. License Amendment to clarify wording on shutdown cooling maintenance Technical Specification to allow purging during the maintenance.*
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
- a. October 1996*
 - b. July 1996*
 - c. July 1996*
 - d. July 1996*
 - e. July 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) 1522 (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: 240 Spent Fuel Assemblies in the ISFSI.

*** Entry has changed since last reported.**

AVERAGE DAILY UNIT POWER LEVEL

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

APRIL 1996

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	865	17	863
2	865	18	861
3	864	19	861
4	865	20	862
5	863	21	861
6	807	22	862
7	774	23	863
8	833	24	864
9	862	25	864
10	864	26	864
11	864	27	864
12	866	28	863
13	865	29	864
14	864	30	863
15	864		
16	864		

DOCKET NO. 50-318
CALVERT CLIFFS - UNIT 2
May 15, 1996

SUMMARY OF OPERATING EXPERIENCE

April 1996

The unit began the month at 100% (860 MWe).

On 04/06/96 at 2315 power was reduced to 95% to support repairs to #21 Heater Drain Tank Normal Level Control Valve. Power was restored to 100% on 04/08/96 at 1430. The unit remained at 100% power for the remainder of the month.