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



May 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
April 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
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K. N. Larson, ANI

9705210221 970430
PDR ADOCK 05000317
R PDR



UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
May 15, 1997
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 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             | 719          | 2,879            | 192,684               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL  | 719.0        | 2,879.0          | 140,174.5             |
| 13. REACTOR RESERVE SHUTDOWN HOURS        | 0.0          | 0.0              | 3,019.4               |
| 14. HOURS GENERATOR ON LINE               | 719.0        | 2,848.9          | 137,335.8             |
| 15. UNIT RESERVE SHUTDOWN HOURS           | 0.0          | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)  | 1,938,527    | 7,645,183        | 350,373,502           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH) | 648,709      | 2,560,296        | 116,325,658           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 623,239      | 2,459,097        | 110,807,289           |
| 19. UNIT SERVICE FACTOR                   | 100.0        | 99.0             | 71.3                  |
| 20. UNIT AVAILABILITY FACTOR              | 100.0        | 99.0             | 71.3                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)  | 103.8        | 102.3            | 69.6                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)  | 102.6        | 101.1            | 68.1                  |
| 23. UNIT FORCED OUTAGE RATE               | 0.0          | 1.0              | 8.3                   |

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

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

REPORT MONTH April 1997

| 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

## 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) 1494 (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.

\*      Entry has changed since last reported.

AVERAGE DAILY UNIT POWER LEVEL

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

APRIL 1997

\*\*\*\*\*

| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 869                                    | 17  | 868                                    |
| 2   | 869                                    | 18  | 869                                    |
| 3   | 868                                    | 19  | 867                                    |
| 4   | 868                                    | 20  | 866                                    |
| 5   | 869                                    | 21  | 866                                    |
| 6   | 833                                    | 22  | 868                                    |
| 7   | 867                                    | 23  | 869                                    |
| 8   | 867                                    | 24  | 869                                    |
| 9   | 867                                    | 25  | 868                                    |
| 10  | 867                                    | 26  | 867                                    |
| 11  | 867                                    | 27  | 867                                    |
| 12  | 867                                    | 28  | 865                                    |
| 13  | 867                                    | 29  | 862                                    |
| 14  | 867                                    | 30  | 863                                    |
| 15  | 866                                    |     |                                        |
| 16  | 868                                    |     |                                        |

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

## SUMMARY OF OPERATING EXPERIENCE

April 1997

The unit began the month at 100% power.

On 04/07/97 at 0227, Control Element Assembly 1 (CEA-1) was dropped while performing a standard test procedure. Reactor power was reduced to 99.5%. CEA-1 was aligned with its respective group and power was restored to 100% at 0300.

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

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UNIT 2

OPERATING DATA REPORT

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Docket No. 50-318  
May 15, 1997  
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 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	719	2,879	176,039
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	1,753.9	131,596.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	0.0	1,752.3	129,887.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0	4,511,411	333,605,795
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	0	1,513,092	110,250,506
18. NET ELECTRICAL ENERGY GENERATED (MWH)	(1,950)	1,449,797	105,426,980
19. UNIT SERVICE FACTOR	0.0	60.9	73.8
20. UNIT AVAILABILITY FACTOR	0.0	60.9	73.8
21. UNIT CAPACITY FACTOR (USING MDC NET)	-0.3	59.9	72.4
22. UNIT CAPACITY FACTOR (USING DER NET)	-0.3	59.6	70.9
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			
	* Time change () Represents a negative value		
25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP:			
05/19/97			

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH April 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	719.0	C	4	N/A	N/A	N/A	The unit was shutdown for a planned Refueling Outage.

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 19, 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. Deleted. *
 - e. Deleted.
 - f. Deleted. *
 - g. Deleted. *
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
 - a. November 26, 1996
 - b. August 1, 1996
 - c. Deleted
 - d. Deleted *
 - e. Deleted
 - f. Deleted *
 - g. Deleted *
 6. Important licensing considerations associated with this refueling.

None.

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

(a) 217 *

(b) 1494 (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.

* Entry has changed since last reported.

AVERAGE DAILY UNIT POWER LEVEL

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

APRIL 1997

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

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

SUMMARY OF OPERATING EXPERIENCE

April 1997

The unit began the month in mode 6 (refueling).

On 04/09/97 at 1310 core off loading was completed and the reactor was defueled. The unit entered mode 6 and commenced loading fuel on 04/23/97 at 2312.

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

- Reactor Vessel Refueling.
- Steam Generator eddy current testing, inspections and tube plugging.
- 21A and 22A Reactor Coolant Pump seal replacement.
- final electrical system modifications to support the Station Blackout Diesel operations.

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