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



June 13, 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
May 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

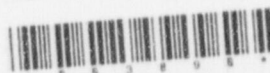
cc: R. S. Fleishman, Esquire
J. E. Silberg, Esquire
A. W. Dromerick, NRC
Director, Project Directorate I-1, NRC
H. J. Miller, NRC
Resident Inspector, NRC

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

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UNIT 1
OPERATING DATA REPORT

Docket No. 50-317
June 13, 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                     | MAY 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        | 3,623            | 193,428               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                       | 691.6      | 3,570.6          | 140,866.1             |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                             | 0.0        | 0.0              | 3,019.4               |
| 14. HOURS GENERATOR ON LINE                                                    | 690.3      | 3,539.2          | 139,026.1             |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                | 0.0        | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                       | 1,841,570  | 9,486,753        | 352,215,072           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)                                      | 614,202    | 3,174,498        | 116,939,860           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)                                      | 588,518    | 3,047,615        | 111,395,807           |
| 19. UNIT SERVICE FACTOR                                                        | 92.8       | 97.7             | 71.4                  |
| 20. UNIT AVAILABILITY FACTOR                                                   | 92.8       | 97.7             | 71.4                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                       | 94.7       | 100.7            | 69.7                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                       | 93.6       | 99.5             | 68.2                  |
| 23. UNIT FORCED OUTAGE RATE                                                    | 7.2        | 2.3              | 8.3                   |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT<br>SIX MONTHS (TYPE, DATE AND DURATION): | N/A        |                  |                       |

25. IF SHUTDOWN AT END OF REPORT PERIOD,  
ESTIMATED DATE OF START-UP:  
06/02/97

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317  
UNIT NAME Calvert Cliffs-U1  
DATE June 13, 1997  
COMPLETED BY Herman O. Olsen  
TELEPHONE (410) 495-6734

REPORT MONTH May 1997

| NO.    | DATE     | TYPE <sup>1</sup> | DURATION<br>(HOURS) | REASON <sup>2</sup> | MODE 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|----------|-------------------|---------------------|---------------------|-----------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 97-002 | 05/29/97 | F                 | 53.8                | A                   | I                                                   | 97-003                        | AB                          | PSF                            | 1. A reactor coolant system leak was indicated and an investigation confirmed the leakage was in excess of the allowed amount. Power was rapidly reduced and the unit was removed from the grid. The leak was from a pressurizer instrument line compression fitting. The leak was isolated and the reactor was shutdown to hot standby (mode 3) to conduct repairs.<br>2. The leak was caused by the improper assembly of the compression fitting. The fitting was reassembled correctly. Other installations that use this type of fitting were inspected and where applicable, repaired or scheduled for repair.<br>3. The use of a mechanical gap gage (used to verify that the fitting is properly assembled) has been proceduralized and added to the applicable work packages. |

<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?

Yes. \*

1. License Amendment to change Technical Specification Surveillance Requirements for No. 1B Emergency Diesel Generator upgrade. \*
  2. Letter to request exemption from General Design Criteria 2 for Nos. 1A and 2B Emergency Diesel Generator tornado doors. \*
5. Scheduled date(s) for submitting proposed licensing action and supporting information.

1. September 1997 \*

2. September 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) 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  
June 13, 1997  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

MAY 1997

\*\*\*\*\*

| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 867                                    | 17  | 751                                    |
| 2   | 867                                    | 18  | 780                                    |
| 3   | 866                                    | 19  | 848                                    |
| 4   | 863                                    | 20  | 858                                    |
| 5   | 863                                    | 21  | 856                                    |
| 6   | 864                                    | 22  | 860                                    |
| 7   | 863                                    | 23  | 862                                    |
| 8   | 863                                    | 24  | 862                                    |
| 9   | 865                                    | 25  | 863                                    |
| 10  | 865                                    | 26  | 862                                    |
| 11  | 865                                    | 27  | 861                                    |
| 12  | 865                                    | 28  | 860                                    |
| 13  | 864                                    | 29  | 632                                    |
| 14  | 864                                    | 30  | -31                                    |
| 15  | 864                                    | 31  | -30                                    |
| 16  | 861                                    |     |                                        |

DOCKET NO. 50-317  
CALVERT CLIFFS - UNIT 1  
June 13, 1997

## SUMMARY OF OPERATING EXPERIENCE

May 1997

The unit began the month at 100% power.

On 05/29/97 at 1645, a rapid reduction in power was made due to indications of excessive reactor coolant system leakage. At 1650 a reactor shutdown was commenced due to a leak on a pressurizer pressure instrument line compression fitting. The unit was removed from the grid at 1815 and the reactor was shutdown and in mode 3 (hot standby) at 1935.

The unit remained in mode 3 (hot standby) for the remainder of the month.

UNIT 2

# OPERATING DATA REPORT

Docket No. 50-318  
 June 13, 1997  
 Prepared by Herman O. Olsen  
 Telephone: (410) 495-6734

## OPERATING STATUS

|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 2 |
| 2. REPORTING PERIOD                     | MAY 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-<br>to-Date | Cumulative<br>to Date |
|-------------------------------------------|------------|------------------|-----------------------|
| 11. HOURS IN REPORTING PERIOD             | 744        | 3,623            | 176,783               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL  | 257.2      | 2,011.1          | 131,853.5             |
| 13. REACTOR RESERVE SHUTDOWN HOURS        | 0.0        | 0.0              | 1,296.6               |
| 14. HOURS GENERATOR ON LINE               | 211.8      | 1,964.1          | 130,099.1             |
| 15. UNIT RESERVE SHUTDOWN HOURS           | 0.0        | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)  | 450,488    | 4,961,899        | 334,056,283           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH) | 151,152    | 1,664,244        | 110,401,658           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 135,860    | 1,585,657        | 105,562,840           |
| 19. UNIT SERVICE FACTOR                   | 28.5       | 54.2             | 73.6                  |
| 20. UNIT AVAILABILITY FACTOR              | 28.5       | 54.2             | 73.6                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)  | 21.7       | 52.1             | 72.2                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)  | 21.6       | 51.8             | 70.7                  |
| 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:  
 N/A



# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318  
 UNIT NAME Calvert Cliffs-U2  
 DATE June 13, 1997  
 COMPLETED BY Herman O. Olsen  
 TELEPHONE (410) 495-6734

REPORT MONTH May 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                         |
|-------|----------|-------------------|---------------------|---------------------|-------------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|-------------------------------------------------------------------------------|
| 97001 | 03/14/97 | S                 | 529.3               | C                   | 4                                                     | N/A                           | N/A                         | N/A                            | The unit was shutdown for a planned Refueling Outage.                         |
| 97002 | 05/23/97 | S                 | 2.9                 | B                   | 9                                                     | N/A                           | JJ                          | 12                             | The unit was removed from the grid for overspeed testing of the Main Turbine. |

<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. 2
2. Scheduled date for next refueling shutdown: March 1999 \*
3. Scheduled date for restart following refueling: May 1999 \*
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.

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

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Docket No. 50-318  
Calvert Cliffs Unit No. 2  
June 13, 1997  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

MAY 1997

\*\*\*\*\*

| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | -7                                     | 17  | -23                                    |
| 2   | -8                                     | 18  | -29                                    |
| 3   | -9                                     | 19  | -29                                    |
| 4   | -10                                    | 20  | -30                                    |
| 5   | -11                                    | 21  | -34                                    |
| 6   | -10                                    | 22  | -33                                    |
| 7   | -10                                    | 23  | 108                                    |
| 8   | -10                                    | 24  | 469                                    |
| 9   | -4                                     | 25  | 706                                    |
| 10  | -5                                     | 26  | 731                                    |
| 11  | -7                                     | 27  | 756                                    |
| 12  | -8                                     | 28  | 799                                    |
| 13  | -9                                     | 29  | 787                                    |
| 14  | -9                                     | 30  | 788                                    |
| 15  | -8                                     | 31  | 830                                    |
| 16  | -9                                     |     |                                        |

DOCKET NO. 50-318  
CALVERT CLIFFS - UNIT 2  
June 13, 1997

## SUMMARY OF OPERATING EXPERIENCE

May 1997

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

The following significant outage work was completed during the month:

- Reactor Vessel Refueling.
- Steam Generator Eddy Current Testing.
- Diesel Engine Operability Testing.

The outage ended when the unit was paralleled to the grid on 05/23/97 at 0119.

The unit was removed from the grid at 1507 on 05/23/97 to perform Main Turbine overspeed testing. After the completion of the overspeed testing the unit was again paralleled to the grid at 1800.

Power was raised in increments to allow the required physics testing following the refueling outage. The unit reached 100% on 05/29/97 at 2050.

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