

PETER E. KATZ
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1650 Calvert Cliffs Parkway
Lusby, Maryland 20657
410 495-4101



January 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
December 1996 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) 495-4335.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Peter Katz", is written over a horizontal line. The signature is fluid and cursive.

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

IE241

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PDR ADOCK 05000317
R PDR

UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
January 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                     | DECEMBER 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                                                  | 744        | 8,784            | 189,805               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                       | 744.0      | 5,869.4          | 137,295.5             |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                             | 0.0        | 0.0              | 3,019.4               |
| 14. HOURS GENERATOR ON LINE                                                    | 744.0      | 5,763.2          | 134,486.9             |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                | 0.0        | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                       | 2,005,260  | 15,226,315       | 342,728,319           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)                                      | 672,458    | 5,053,662        | 113,765,362           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)                                      | 646,397    | 4,823,699        | 108,348,192           |
| 19. UNIT SERVICE FACTOR                                                        | 100.0      | 65.6             | 70.9                  |
| 20. UNIT AVAILABILITY FACTOR                                                   | 100.0      | 65.6             | 70.9                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                       | 104.0      | 65.8             | 69.1                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                       | 102.8      | 65.0             | 67.6                  |
| 23. UNIT FORCED OUTAGE RATE                                                    | 0.0        | 12.5             | 8.5                   |
| 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:  
N/A

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317  
 UNIT NAME Calvert Cliffs-U1  
 DATE January 15, 1997  
 COMPLETED BY Herman O. Olsen  
 TELEPHONE (410) 495-6734

REPORT MONTH December 1996

|  | 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) 1402 (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  
January 15, 1997  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

DECEMBER 1996

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| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 868                                    | 17  | 867                                    |
| 2   | 868                                    | 18  | 870                                    |
| 3   | 869                                    | 19  | 871                                    |
| 4   | 866                                    | 20  | 869                                    |
| 5   | 869                                    | 21  | 869                                    |
| 6   | 869                                    | 22  | 869                                    |
| 7   | 870                                    | 23  | 868                                    |
| 8   | 870                                    | 24  | 868                                    |
| 9   | 870                                    | 25  | 869                                    |
| 10  | 870                                    | 26  | 868                                    |
| 11  | 868                                    | 27  | 869                                    |
| 12  | 869                                    | 28  | 869                                    |
| 13  | 870                                    | 29  | 869                                    |
| 14  | 866                                    | 30  | 868                                    |
| 15  | 870                                    | 31  | 868                                    |
| 16  | 869                                    |     |                                        |

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

## SUMMARY OF OPERATING EXPERIENCE

December 1996

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

UNIT 2

# OPERATING DATA REPORT

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

## OPERATING STATUS

|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 2 |
| 2. REPORTING PERIOD                     | DECEMBER 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-<br>to-Date | Cumulative<br>to Date |
|--------------------------------------------------------------------------------------------------------------|------------|------------------|-----------------------|
| 11. HOURS IN REPORTING PERIOD                                                                                | 744        | 8,784            | 173,160               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                                                     | 744.0      | 8,599.6          | 129,842.4             |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                                                           | 0.0        | 0.0              | 1,296.6               |
| 14. HOURS GENERATOR ON LINE                                                                                  | 744.0      | 8,561.6          | 129,135.0             |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                                              | 0.0        | 0.0              | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                                                     | 1,78,712   | 22,764,173       | 329,094,384           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)                                                                    | 664,770    | 7,547,886        | 108,737,414           |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)                                                                    | 639,417    | 7,247,739        | 103,977,183           |
| 19. UNIT SERVICE FACTOR                                                                                      | 100.0      | 97.5             | 74.0                  |
| 20. UNIT AVAILABILITY FACTOR                                                                                 | 100.0      | 97.5             | 74.0                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                                                     | 102.3      | 98.2             | 72.6                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                                                     | 101.7      | 97.6             | 71.1                  |
| 23. UNIT FORCED OUTAGE RATE                                                                                  | 0.0        | 2.8              | 5.4                   |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT<br>SIX MONTHS (TYPE, DATE AND DURATION):<br>Refueling 03/14/96 46 days |            |                  |                       |
| 25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD,<br>ESTIMATED DATE OF START-UP:<br>N/A                       |            |                  |                       |

# UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH December 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



### 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 29, 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. November 26, 1996
  - b. August 1, 1996
  - c. January 1997 \*
  - d. January 1997
  - e. January 1997 \*
  - 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) 1402 (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  
January 15, 1997  
Prepared by Herman O. Olsen  
Telephone: (410) 495-6734

DECEMBER 1996

\*\*\*\*\*

| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 861                                    | 17  | 865                                    |
| 2   | 860                                    | 18  | 863                                    |
| 3   | 862                                    | 19  | 864                                    |
| 4   | 866                                    | 20  | 863                                    |
| 5   | 864                                    | 21  | 863                                    |
| 6   | 864                                    | 22  | 863                                    |
| 7   | 864                                    | 23  | 853                                    |
| 8   | 864                                    | 24  | 837                                    |
| 9   | 864                                    | 25  | 862                                    |
| 10  | 863                                    | 26  | 863                                    |
| 11  | 864                                    | 27  | 864                                    |
| 12  | 864                                    | 28  | 861                                    |
| 13  | 864                                    | 29  | 833                                    |
| 14  | 863                                    | 30  | 825                                    |
| 15  | 864                                    | 31  | 824                                    |
| 16  | 863                                    |     |                                        |

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

## SUMMARY OF OPERATING EXPERIENCE

December 1996

The unit began the month at 100% power.

On 12/23/96 at 1225, power was reduced to approximately 95%, as a conservative measure, due to a reduction in the cooling capacity of the main power output transformer (U-220000-22).

Power was maintained between 95 - 100%, based on the outside ambient air temperature, for the remainder of the month.