
 UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
 April 13, 1988
 Prepared by C.Behnke
 Telephone: (301)260-4871

OPERATING STATUS
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|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 1 |
| 2. REPORTING PERIOD                     | MARCH 1988            |
| 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) | 860                   |
| 7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)   | 825                   |
| 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<br>to Date |
|--------------------------------------------------------------------------------|------------------------------------------------|--------------|-----------------------|
| -----                                                                          |                                                |              |                       |
| 11. HOURS IN REPORTING PERIOD                                                  | 744                                            | 2,184        | 113,077               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                       | 744.0                                          | 2,184.0      | 88,571.2              |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                             | 0.0                                            | 0.0          | 3,019.4               |
| 14. HOURS GENERATOR ON LINE                                                    | 744.0                                          | 2,158.4      | 86,611.3              |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                | 0.0                                            | 0.0          | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                       | 1,933,567                                      | 5,628,600    | 217,703,318           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWE)                                      | 649,141                                        | 1,892,567    | 72,108,279            |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)                                      | 623,869                                        | 1,815,837    | 68,851,798            |
| 19. UNIT SERVICE FACTOR                                                        | 100.0                                          | 98.8         | 76.6                  |
| 20. UNIT AVAILABILITY FACTOR                                                   | 100.0                                          | 98.8         | 76.6                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                       | 101.6                                          | 100.8        | 73.8                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                       | 99.2                                           | 98.4         | 72.1                  |
| 23. UNIT FORCED OUTAGE RATE                                                    | 0.0                                            | 1.2          | 10.0                  |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT<br>SIX MONTHS (TYPE, DATE AND DURATION): |                                                |              |                       |
|                                                                                | April 8, 1988, Refueling shutdown for 48 days. |              |                       |
| 25. IF SHUTDOWN AT END OF REPORT PERIOD,<br>ESTIMATED DATE OF START-UP:        |                                                |              |                       |
|                                                                                | N/A                                            |              |                       |

Note: Line 21 "Cumulative" factor no longer uses a weighted average.  
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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317

UNIT NAME Calvert Cliffs - 1

DATE April 13, 1988

COMPLETED BY C. Behnke

REPORT MONTH March 1988

TELEPHONE (301)260-4871

| No. | Date | Type <sup>1</sup> | Duration<br>(Hours) | Reason <sup>2</sup> | Method of<br>Shutting<br>Down Reactor <sup>3</sup> | License<br>Event<br>Report # | System<br>Code <sup>4</sup> | Component<br>Code <sup>5</sup> | Cause & Corrective<br>Action to<br>Prevent Recurrence          |
|-----|------|-------------------|---------------------|---------------------|----------------------------------------------------|------------------------------|-----------------------------|--------------------------------|----------------------------------------------------------------|
| N/A |      |                   |                     |                     |                                                    |                              |                             |                                | There were no shutdowns or significant reductions this period. |

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> Reason:  
A-Equipment Failure (Explain)  
B-Maintenance or Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training & License Examination  
F-Administrative  
G-Operational Error (Explain)  
H-Other (Explain)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

<sup>4</sup> Exhibit G-Instructions  
for Preparation of Data  
Entry Sheet for License  
Event Report (LER) File  
(PUREG-0161)

<sup>5</sup> Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
 Calvert Cliffs Unit No. 1  
 April 13, 1988  
 Completed by C. Behnke  
 Telephone: (301) 260-4871

MARCH 1988

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| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 812                                    | 17  | 844                                    |
| 2   | 759                                    | 18  | 837                                    |
| 3   | 845                                    | 19  | 841                                    |
| 4   | 851                                    | 20  | 840                                    |
| 5   | 851                                    | 21  | 839                                    |
| 6   | 852                                    | 22  | 841                                    |
| 7   | 802                                    | 23  | 845                                    |
| 8   | 845                                    | 24  | 845                                    |
| 9   | 847                                    | 25  | 845                                    |
| 10  | 845                                    | 26  | 844                                    |
| 11  | 825                                    | 27  | 842                                    |
| 12  | 843                                    | 28  | 843                                    |
| 13  | 847                                    | 29  | 844                                    |
| 14  | 847                                    | 30  | 842                                    |
| 15  | 845                                    | 31  | 841                                    |
| 16  | 847                                    |     |                                        |

Summary of U-1 Operating Experience  
March 1988

| <u>Date</u> | <u>Time</u> | <u>Event Description</u>                                                                                                     |
|-------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
| 3/1         | 0000        | The Unit began this reporting period @ 97% (840 MW <sub>net</sub> ).                                                         |
|             | 1610        | Reduced power to (84%) 760 MW for #15 CWP noise. Believe guide bearing worn, causing axial misalignment of rotor and stator. |
|             | 1730        | Reduced power to 730 MW <sub>net</sub> for condensor differential temperature.                                               |
| 3/2         | 2100        | Increased power to 97%.                                                                                                      |
| 3/7         | 1010        | Reduced power to 70% (625 MW <sub>net</sub> ) because of #11 CWP flooded (sump pump failure).                                |
|             | 1145        | Began increasing power.                                                                                                      |
|             | 1815        | Resumed 97% power operation.                                                                                                 |
| 3/11        | 1602        | Reduced power due to oil pump failure on #13 Condensate Pump.                                                                |
|             | 1. 5        | Returning to 97% power.                                                                                                      |
| 3/12        | 0000        | Unit @ 97%.                                                                                                                  |
| 3/31        | 2359        | Unit remained at 97% derated power through the remainder of the month.                                                       |

April 5, 1988

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: April 8, 1988
3. Scheduled date for restart following refueling: May 26, 1988
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Resumption of operation after refueling will require changes to Technical Specifications. The changes will be such as to allow operation of the plant with a fresh reload batch and reshuffled core for unit 1's first 24 month cycle.

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

February 17, 1988 (actual submittal date was February 12, 1988)

5. Important licensing considerations associated with the refueling.

Reload fuel will be similar to that reload fuel inserted into Calvert Cliffs Unit 2 Eighth Cycle except for four lead demonstration assemblies manufactured by Advanced Nuclear Fuels

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

(a) 217                      (b) 1139

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) 1830                      (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 offload.

April, 1991

UNIT 2

OPERATING DATA REPORT

Docket No. 50-318  
 April 13, 1988  
 Prepared by C.Behnke  
 Telephone:(301)260-4871

OPERATING STATUS

|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 2 |
| 2. REPORTING PERIOD                     | MARCH 1988            |
| 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) | 860                   |
| 7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)   | 825                   |
| 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<br>to Date |
|---------------------------------------------------------------------------------|---------------|--------------|-----------------------|
| -----                                                                           |               |              |                       |
| 11. HOURS IN REPORTING PERIOD                                                   | 744           | 2,184        | 96,432                |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                        | 0.0           | 1,357.7      | 79,201.5              |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                              | 0.0           | 0.0          | 1,296.6               |
| 14. HOURS GENERATOR ON LINE                                                     | 0.0           | 1,352.9      | 78,034.5              |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                 | 0.0           | 0.0          | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                        | 0             | 3,556,246    | 196,896,910           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED(MWH)                                        | 0             | 1,210,673    | 65,098,774            |
| 18. NET ELECTRICAL ENERGY GENERATED(MWH)                                        | 0             | 1,161,178    | 62,152,236            |
| 19. UNIT SERVICE FACTOR                                                         | 0.0           | 61.9         | 80.9                  |
| 20. UNIT AVAILABILITY FACTOR                                                    | 0.0           | 61.9         | 80.9                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                        | 0.0           | 64.4         | 78.1                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                        | 0.0           | 62.9         | 76.3                  |
| 23. UNIT FORCED OUTAGE RATE                                                     | 0.0           | 1.2          | 5.5                   |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT<br>SIX MONTHS (TYPE, DATE AND DURATION):  | None          |              |                       |
| 25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD,<br>ESTIMATED DATE OF START-UP: | April 1, 1988 |              |                       |

Note: Line 21 "Cumulative" factor no longer uses a weighted average.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318  
 UNIT NAME Calvert Cliffs - 2  
 DATE April 13, 1988  
 COMPLETED BY C. Behnke  
 TELEPHONE (301)260-4871

REPORT MONTH March 1988

| No.   | Date   | Type <sup>1</sup> | Duration (Hours) | Reason <sup>2</sup> | Method of Shutting Down Reactor <sup>3</sup> | License event Report # | System Code <sup>4</sup> | Component Code <sup>5</sup> | Cause & Corrective Action to Prevent Recurrence                    |
|-------|--------|-------------------|------------------|---------------------|----------------------------------------------|------------------------|--------------------------|-----------------------------|--------------------------------------------------------------------|
| 88-05 | 880301 | S                 | 744.0            | B                   | N/A                                          | N/A                    | N/A                      | N/A                         | Continued shutdown for pre-summer general maintenance mini-outage. |

<sup>1</sup> F: Forced  
 S: Scheduled

<sup>2</sup> Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup> Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup> Exhibit G-Instructions for Preparation of Data Entry Sheets for License Event Report (LER) File (NUREG-0161)

<sup>5</sup> Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-318  
 Calvert Cliffs Unit No 2  
 April 13, 1988  
 Completed by C. Behnke  
 Telephone: (301) 260-4871

MARCH 1988

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| Day | Average Daily Power Level<br>(MWe-Net) | Day | Average Daily Power Level<br>(MWe-Net) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1   | 0                                      | 17  | 0                                      |
| 2   | 0                                      | 18  | 0                                      |
| 3   | 0                                      | 19  | 0                                      |
| 4   | 0                                      | 20  | 0                                      |
| 5   | 0                                      | 21  | 0                                      |
| 6   | 0                                      | 22  | 0                                      |
| 7   | 0                                      | 23  | 0                                      |
| 8   | 0                                      | 24  | 0                                      |
| 9   | 0                                      | 25  | 0                                      |
| 10  | 0                                      | 26  | 0                                      |
| 11  | 0                                      | 27  | 0                                      |
| 12  | 0                                      | 28  | 0                                      |
| 13  | 0                                      | 29  | 0                                      |
| 14  | 0                                      | 30  | 0                                      |
| 15  | 0                                      | 31  | 0                                      |
| 16  | 0                                      |     |                                        |



Summary of U-2 Operating Experience  
March 1988

| <u>Date</u> | <u>Time</u> | <u>Event Description</u>                                               |
|-------------|-------------|------------------------------------------------------------------------|
| 3/1         | 0000        | Unit began this reporting period shut-down for corrective maintenance. |
| 3/31        | 2359        | Unit ended the reporting period shut down.                             |

April 5, 1988

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2.
2. Scheduled date for next refueling shutdown: April 1, 1989
3. Scheduled date for restart following refueling: May 15, 1989
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Resumption of operation after refueling will require changes to Technical Specifications. The changes will be such as to allow operation of the plant with a fresh reload batch and reshuffled core.

5. Scheduled date(s) for submitting proposed licensing action and supporting information.

February 9, 1989

6. Important licensing considerations associated with the refueling.

Reload fuel will be similar to that reload fuel inserted into the previous cycle.

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

(a) 217                      (b) 1139

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) 1830                      (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 offload.

April, 1991