
UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
March 15, 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                     | FEBRUARY 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                                                  | 696        | 1,440        | 112,333               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                       | 696.0      | 1,440.0      | 87,827.2              |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                             | 0.0        | 0.0          | 3,019.4               |
| 14. HOURS GENERATOR ON LINE                                                    | 696.0      | 1,414.4      | 85,867.3              |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                | 0.0        | 0.0          | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                       | 1,818,768  | 3,695,033    | 215,769,751           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)                                      | 611,347    | 1,243,426    | 71,459,138            |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)                                      | 586,372    | 1,191,968    | 68,227,929            |
| 19. UNIT SERVICE FACTOR                                                        | 100.0      | 98.2         | 76.4                  |
| 20. UNIT AVAILABILITY FACTOR                                                   | 100.0      | 98.2         | 76.4                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                       | 102.1      | 100.3        | 73.6                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                       | 99.7       | 98.0         | 71.9                  |
| 23. UNIT FORCED OUTAGE RATE                                                    | 0.0        | 1.8          | 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 uses a weighted average.

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
Calvert Cliffs Unit No. 1  
March 15, 1988  
Completed by C. Behnke  
Telephone: (301) 260-4871

FEBRUARY 1988

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| Average Daily Power Level |           | Average Daily Power Level |           |
|---------------------------|-----------|---------------------------|-----------|
| Day                       | (MWe-Net) | Day                       | (MWe-Net) |
| 1                         | 836       | 17                        | 844       |
| 2                         | 843       | 18                        | 831       |
| 3                         | 843       | 19                        | 844       |
| 4                         | 844       | 20                        | 845       |
| 5                         | 843       | 21                        | 844       |
| 6                         | 842       | 22                        | 845       |
| 7                         | 841       | 23                        | 845       |
| 8                         | 842       | 24                        | 845       |
| 9                         | 842       | 25                        | 845       |
| 10                        | 844       | 26                        | 844       |
| 11                        | 845       | 27                        | 842       |
| 12                        | 842       | 28                        | 847       |
| 13                        | 822       | 29                        | 850       |
| 14                        | 845       |                           |           |
| 15                        | 845       |                           |           |
| 16                        | 845       |                           |           |

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317

UNIT NAME: Calvert Cliffs-1

DATE: March 15, 1988

COMPLETED BY: C. Behnke

REPORT MONTH: February 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> | Licenses<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. |

1 F: Forced  
S: Scheduled

2

Reason:

A-Equipment Failure (Explain)

B-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training &amp; License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

3

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Other (Explain)

4

Exhibit G-Instructions for Preparation of Data Entry Sheets for License Event Report (LER) File (NUREG-0161)

5 Exhibit 1 - Same Source

Summary of U-1 Operating Experience  
February 1988

| <u>Date</u> | <u>Time</u> | <u>Event Description</u>                                                                                                                         |
|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 2/1         | 0000        | The Unit began this reporting period on ramp-up to 97%.                                                                                          |
|             | 1200        | Unit @ 97% (limited to 97% due to Nos. 11/12 MSRs 2nd Stage OOS, 840 MWe NET).                                                                   |
| 2/12        | 2200        | Reduced power to clean condenser waterboxes. (760 MWe NET)                                                                                       |
| 2/13        | 0900        | Unit @ 97%.                                                                                                                                      |
| 2/18        | 1855        | Commenced reduction to repair No. 11 Circulating Water pump. Failure of submersible pump flooded lower bearing and required flush. (740 MWe NET) |
| 2/19        | 0200        | Unit @ 97%.                                                                                                                                      |
| 2/29        | 2400        | Ended this period @ 97%.                                                                                                                         |

March 3, 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

6. 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) 1138

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

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UNIT 2

OPERATING DATA REPORT

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Docket No. 50-318  
March 15, 1988  
Prepared by C.Behnke  
Telephone: (301)260-4871

OPERATING STATUS

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1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	FEBRUARY 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 to Date

11. HOURS IN REPORTING PERIOD	696	1,440	95,688
12. NUMBER OF HOURS REACTOR WAS CRITICAL	649.7	1,381.7	79,225.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	648.7	1,376.9	78,058.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,630,042	3,556,246	196,896,910
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	554,058	1,210,673	65,098,774
18. NET ELECTRICAL ENERGY GENERATED (MWH)	531,488	1,161,178	62,152,236
19. UNIT SERVICE FACTOR	93.2	95.6	81.6
20. UNIT AVAILABILITY FACTOR	93.2	95.6	81.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	92.6	97.7	78.7
22. UNIT CAPACITY FACTOR (USING DER NET)	90.4	95.4	76.9
23. UNIT FORCED OUTAGE RATE	0.0	1.1	5.5
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):	None		
25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP:	March 18, 1988		

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

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-318
Calvert Cliffs Unit No. 2
March 15, 1988
Completed by C. Behnke
Telephone: (301) 260-4871

FEBRUARY 1988

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	873	17	869
2	872	18	871
3	870	19	625
4	871	20	866
5	870	21	867
6	870	22	869
7	869	23	868
8	870	24	869
9	871	25	868
10	707	26	814
11	867	27	0
12	869	28	0
13	870	29	0
14	870		
15	870		
16	871		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318

UNIT NAME Calvert Cliffs-2

DATE March 15, 1988

COMPLETED BY C. Behnke

TELEPHONE (301)260-4871

REPORT MONTH February 1988

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
88-02	880210	F	0.0	A	4	N/A	SF	INSTRU	Reduction to repair 22B Safety Injection Tank level monitoring transmitter.
88-03	880219	F	0.0	A	4	N/A	SF	INSTRU	Reduction to replace 21A Safety Injection Tank level monitoring transmitter.
88-04	880227	S	47.3	B	1	N/A	N/A	N/A	Shutdown for pre-summer general maintenance mini-outage.

¹ F: Forced
S: Scheduled

² 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)

³ Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

⁵ Exhibit I - Same Source

Summary of U-2 Operating Experience
February 1988

<u>Date</u>	<u>Time</u>	<u>Event Description</u>
2/1	0000	Unit began this reporting period at full capacity. (860 MWe NET)
2/10	1357	Commenced power reduction to 20% due to failure of No. 22B Safety Injection tank level monitoring system. Containment entries were made to repair and check other transmitters for accuracy. Minimum generation was 76 MWe NET.
2/11	0025	@ 100%.
2/19	1045	Recommenced power reduction to 20% due to failure of No. 21A Safety Injection tank level monitoring system. Containment entries were made to replace the transmitter. Minimum generation was 161 MWe NET.
	2400	@ 100%.
2/26	2000	Commenced power reduction for scheduled pre-summer general maintenance mini-outage.
2/27	0042	Removed unit from grid.
2/29	2400	Ended this reporting period shut-down for corrective maintenance.

March 3, 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) 1138

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



CHARLES CENTER • P. O. BOX 1475 • BALTIMORE, MARYLAND 21203

JAMES R. LEMONS
MANAGER
NUCLEAR OPERATIONS DEPARTMENT

March 15, 1988

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: Document Control Desk

SUBJECT: February Operating Data Reports for Calvert Cliffs
Units 1 and 2 (Dockets 50-317 and 50-318)

Gentlemen:

The subject reports are being sent to you as required by
Technical Specification 6.9.1.6.

If there are any questions, please contact Carl Behnke,
(301) 260-4871.

Sincerely,

J. R. Lemons
Manager-Nuclear Operations Department

JRL/CB/jaf

Enclosures

cc: W. T. Russell (NRC)
S. A. McNeil (NRC)
D. Trimble (NRC)
P. Ross (NRC)
T. Magette (DNR)
D. Reilly (INPO)
K. Gibbard (DOE)
K. Gromack (CE)

FE24
1/1