
 UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
 June 7, 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 MAY 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        | 3,647        | 114,540               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                       | 0.0        | 2,378.3      | 88,765.5              |
| 13. REACTOR RESERVE SHUTDOWN HOURS                                             | 0.0        | 0.0          | 3,019.4               |
| 14. HOURS GENERATOR ON LINE                                                    | 0.0        | 2,351.3      | 86,804.2              |
| 15. UNIT RESERVE SHUTDOWN HOURS                                                | 0.0        | 0.0          | 0.0                   |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)                                       | 0          | 6,099,545    | 218,174,263           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED(MWH)                                       | 0          | 2,051,480    | 72,267,192            |
| 18. NET ELECTRICAL ENERGY GENERATED(MWH)                                       | 0          | 1,967,731    | 69,003,692            |
| 19. UNIT SERVICE FACTOR                                                        | 0.0        | 64.5         | 75.8                  |
| 20. UNIT AVAILABILITY FACTOR                                                   | 0.0        | 64.5         | 75.8                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                       | 0.0        | 65.4         | 73.0                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                       | 0.0        | 63.9         | 71.3                  |
| 23. UNIT FORCED OUTAGE RATE                                                    | 0.0        | 1.1          | 9.9                   |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT<br>SIX MONTHS (TYPE, DATE AND DURATION): |            |              |                       |
| None                                                                           |            |              |                       |
| 25. IF SHUTDOWN AT END OF REPORT PERIOD,<br>ESTIMATED DATE OF START-UP:        |            |              |                       |
| June 19, 1988                                                                  |            |              |                       |

Note: Line 21 "Cumulative" factor no longer uses a weighted average.  
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1274  
 1/1

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317  
 UNIT NAME Calvert Cliffs-U1  
 DATE June 7, 1988  
 COMPLETED BY C. Behnke  
 TELEPHONE (301)260-4871

REPORT MONTH May 1988

| 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 |
|-------|--------|-------------------|------------------|---------------------|----------------------------------------------|-------------------------|--------------------------|-----------------------------|-------------------------------------------------|
| 88-03 | 880501 | S                 | 744.0            | C                   | N/A                                          | N/A                     | N/A                      | N/A                         | Remained shutdown for refueling operations.     |

<sup>1</sup> E: 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. 50-317  
 Calvert Cliffs Unit No. 1  
 June 7, 1988  
 Completed by C. Behnke  
 Telephone: (301) 260-4871

MAY 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-1 Operating Experience  
May 1988

| <u>TIME</u> | <u>DATE</u> | <u>REMARKS</u>                                        |
|-------------|-------------|-------------------------------------------------------|
| 0000        | 5/1         | Shutdown, in Mode 6 for Refueling Outage<br>(day #23) |
| 0700        | 5/13        | Entered Mode 5 (head tensioned)                       |
| 2359        | 5/31        | S/D Mode 5 for Refueling Outage (day #53)             |

Narrative

Began the month (May 1, 1988, 0000) shutdown in Mode 6 for day #23 of the Refueling Outage (the refueling evolution was completed on April 29). Continued Reactor Assembly (tensioned the RV head at 0700 on May 13) into Mode 5. Completed the ILRT on May 28 and remained shutdown (Mode 5) through midnight, May 31.

June 6, 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)

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) 1235

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  
June 7, 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 MAY 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	744	3,647	97,895
12. NUMBER OF HOURS REACTOR WAS CRITICAL	714.4	2,890.1	80,533.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	711.9	2,678.2	79,359.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,859,892	7,054,671	200,395,335
17. GROSS ELECTRICAL ENERGY GEN TED(MWH)	625,567	2,387,736	66,275,837
18. NET ELECTRICAL ENERGY GENERATED(MWH)	600,221	2,291,626	63,282,684
19. UNIT SERVICE FACTOR	95.7	73.4	81.1
20. UNIT AVAILABILITY FACTOR	95.7	73.4	81.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	97.8	76.2	78.4
22. UNIT CAPACITY FACTOR (USING DER NET)	95.5	74.4	76.5
23. UNIT FORCED OUTAGE RATE	4.3	4.8	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:	N/A		

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs - U2
 DATE June 7, 1988
 COMPLETED BY C. Behnke
 TELEPHONE (301)260-4871

REPORT MONTH May 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
88-08	880501	F	32.1	A	N/A	88-04	HB	PUMPXX	Remained shutdown due to loss of feedwater level and main steam hanger repairs.

¹ F: Forced
 S: Scheduled

² Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Re-fueling
 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

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-318
 Calvert Cliffs Unit No. 2
 June 7, 1988
 Completed by C. Behnke
 Telephone: (301) 260-4871

MAY 1988

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	0	17	869
2	372	18	868
3	617	19	868
4	637	20	866
5	870	21	864
6	869	22	864
7	834	23	864
8	870	24	866
9	872	25	864
10	872	26	865
11	872	27	865
12	871	28	864
13	871	29	864
14	871	30	863
15	870	31	860
16	869		

Summary of U-2 Operating Experience

Began the month (5/1/88, 0000) in Hot Standby (Mode 3) due to shutdown for loss of feed (#21 SGFP) and #22 S/G MS hanger repairs. Startup on 5/2 as follows:

<u>TIME</u>	<u>DATE</u>	<u>REMARKS</u>
0643	5/2	Rolled Main Turbine
0806	5/2	Paralleled Unit 2 to Grid
1105	5/2	@ 70% (limited for #21 SGFP)
1950	5/4	Increasing to 100%
2330	5/4	@ 100%
0055	5/7	Down to 70% (for #22 SGFP instrumentation repairs)
0410	5/7	Increasing power up to 100%
0800	5/7	@ 100%
2359	5/31	Unit @ 100% power

Narrative

Began the month (May 1, 1988, 0000) in Hot Standby (Mode 3) due to a forced shutdown (loss of feedwater - Lo S/G level) for loss of #21 SGFP and remained shutdown while repairing #22 S/G MS line hanger (inside containment). Started up on May 2; rolled the Main Turbine @ 0643, paralleled at 0806 and increased power to maximum (70%) at 1105. On May 4th at 1950, began increasing power to 100% (@100% at 2330). On May 7 at 0055, reduced power to 70% for #22 SGFP instrumentation repairs (increased power to 100% at 0800). Ended the month at 100% power.

a:opex.doc/#4nonoutage

June 6, 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) 1235

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