
UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
November 13, 1987
Prepared by C.Behnke
Telephone: (301)260-4871

OPERATING STATUS

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|                                         |                       |
|-----------------------------------------|-----------------------|
| 1. UNIT NAME                            | Calvert Cliffs Unit 1 |
| 2. REPORTING PERIOD                     | OCTOBER 1987          |
| 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                                                  | 745        | 7,296        | 109,429               |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL                                       | 745.0      | 5377.3       | 85,149.0              |
| 13. REACTOR RESERVE SHUT'DOWN HOURS                                            | 0.0        | 0.0          | 3,019.4               |
| 14. HOURS GENERATOR ON LINE                                                    | 745.0      | 5055.4       | 83,271.3              |
| 15. UNIT RESERVE SHUT'DOWN HOURS                                               | 0.0        | 0.0          | 0.0                   |
| 16. GROSS THERMAL ENFRGY GENERATED (MWH)                                       | 1,980,838  | 13,272,161   | 208,802,556           |
| 17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)                                      | 663,412    | 4,421,695    | 69,111,688            |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)                                      | 636,448    | 4,231,042    | 65,980,252            |
| 19. UNIT SERVICE FACTOR                                                        | 100.0      | 69.3         | 76.1                  |
| 20. UNIT AVAILABILITY FACTOR                                                   | 100.0      | 69.3         | 76.1                  |
| 21. UNIT CAPACITY FACTOR (USING MDC NET)                                       | 103.6      | 70.3         | 73.2                  |
| 22. UNIT CAPACITY FACTOR (USING DER NET)                                       | 101.1      | 68.6         | 71.4                  |
| 23. UNIT FORCED OUTAGE RATE                                                    | 0.0        | 27.7         | 10.1                  |
| 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.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317

UNIT NAME: Calvert Cliffs Unit 1

DATE Nov. 13, 1987

COMPLETED BY C. Behnke

TELEPHONE (301)260-4871

REPORT MONTH October 1987

| No. | Date | Type <sup>1</sup> | Duration<br>(Hours) | Reason <sup>2</sup> | Method of<br>Shutting<br>Down 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             |
|-----|------|-------------------|---------------------|---------------------|----------------------------------------------------|-------------------------------|-----------------------------|--------------------------------|-------------------------------------------------------------------|
| N/A |      |                   |                     |                     |                                                    |                               |                             |                                | There were no shutdowns or significant reductions to be reported. |

- |   |                           |   |                                                                                                                                                                                                                                     |   |                                                                                   |   |                                                                                                                          |   |                         |
|---|---------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| 1 | F: Forced<br>S: Scheduled | 2 | Reason:<br>A-Equipment Failure (Explain)<br>B-Maintenance or Test<br>C-Refueling<br>D-Regulatory Restriction<br>E-Operator Training & License Examination<br>F-Administrative<br>G-Operational Error (Explain)<br>H-Other (Explain) | 3 | Method:<br>1-Manual<br>2-Manual Scram.<br>3-Automatic Scram.<br>4-Other (Explain) | 4 | Exhibit G-Instructions<br>for Preparation of Data<br>Entry Sheets for License<br>Event Report (LER) File<br>(NRRRG-0161) |   |                         |
|   |                           |   |                                                                                                                                                                                                                                     |   |                                                                                   |   |                                                                                                                          | 5 | Exhibit I - Same Source |

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
Calvert Cliffs Unit No. 1  
November 13, 1987  
Completed by C. Behnke  
Telephone: (301) 260-4871

OCTOBER 1987

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| Average Daily Power Level |           | Average Daily Power Level |           |
|---------------------------|-----------|---------------------------|-----------|
| Day                       | (MWe-Net) | Day                       | (MWe-Net) |
| 1                         | 858       | 17                        | 870       |
| 2                         | 855       | 18                        | 870       |
| 3                         | 858       | 19                        | 870       |
| 4                         | 862       | 20                        | 868       |
| 5                         | 861       | 21                        | 868       |
| 6                         | 861       | 22                        | 869       |
| 7                         | 862       | 23                        | 868       |
| 8                         | 864       | 24                        | 869       |
| 9                         | 864       | 25                        | 869       |
| 10                        | 863       | 26                        | 868       |
| 11                        | 861       | 27                        | 870       |
| 12                        | 723       | 28                        | 872       |
| 13                        | 699       | 29                        | 872       |
| 14                        | 850       | 30                        | 870       |
| 15                        | 828       | 31                        | 872       |
| 16                        | 869       |                           |           |



SUMMARY OF UNIT 1 OPERATING EXPERIENCE  
OCTOBER 1987

- 10/1 The Unit began the month at full reactor power (825 MWe).
- 10/11 At 2258, operators began reducing power because main condenser temperature rise exceeded 12 degrees.
- 10/12 At 0500, power was reduced further to clean condenser waterboxes. Cleaning was delayed to repair a waterbox inlet butterfly valve and an amertap screen.
- 10/13 At 2211, cleaning and repairs were complete. The Unit was returned to full power.
- 10/14 At 2110, power was again reduced to clean condenser waterboxes.
- 10/15 At 0545, waterbox cleaning was complete and the Unit was returned to full reactor power.
- 10/31 The Unit ended the month at full reactor power (825 MWe).

November 5, 1987

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 not require changes to Technical Specifications.**

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

**February 19, 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.**

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  
November 13, 1987  
Prepared by C.Behnke  
Telephone: (301)260-4871

OPERATING STATUS

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1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	OCTOBER 1987
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
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11. HOURS IN REPORTING PERIOD	745	7,296	92,784
12. NUMBER OF HOURS REACTOR WAS CRITICAL	697.1	4,551.0	76,437.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	696.1	4,470.8	75,290.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,794,427	11,423,953	189,740,808
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	601,538	3,827,599	62,665,111
18. NET ELECTRICAL ENERGY GENERATED (MWH)	576,084	3,661,330	59,819,952
19. UNIT SERVICE FACTOR	93.4	61.3	81.1
20. UNIT AVAILABILITY FACTOR	93.4	61.3	81.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	93.7	60.8	78.1
22. UNIT CAPACITY FACTOR (USING DER NET)	91.5	59.4	76.3
23. UNIT FORCED OUTAGE RATE	6.6	2.2	5.7
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:	November 1, 1987		

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318

UNIT NAME Calvert Cliffs Unit 2

DATE Nov. 13, 1987

COMPLETED BY C. Behnke

TELEPHONE 301-260-4871

REPORT MONTH October 1987

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
87-14	871028	F	35.2	B	NA	NA	HI	PIPEXX	Reduced power to encapsulate leak on #22 S/G bottom blow- down line.
87-15	871029	F	48.9	A	1	NA	HI	PIPEXX	(Ref: #87-14) Encapsulation was unsuccessful, so unit was shut- down to replace line and also to perform snubber inspection.

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 (UER) File
(NUREG-0161)

5 Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-318
Calvert Cliffs Unit No. 2
November 13, 1987
Completed by C. Behnke
Telephone: (301) 260-4871

OCTOBER 1987

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	848	17	855
2	847	18	849
3	850	19	852
4	858	20	823
5	855	21	761
6	854	22	861
7	854	23	860
8	856	24	862
9	856	25	862
10	857	26	860
11	857	27	861
12	858	28	688
13	858	29	294
14	858	30	0
15	857	31	0
16	856		

SUMMARY OF UNIT 2 OPERATING EXPERIENCES
OCTOBER 1987

- 10/1 The Unit began the month at full reactor power (825 MWe).
- 10/18 At 0530, reactor power was reduced to 812 MWe because the Plant Computer failed. At 0725, the Plant Computer was restored, and the Unit returned to full reactor power (825 MWe).
- 10/20 At 1730, operators reduced power to 725 MWe for waterbox cleaning and Amertap maintenance.
- 10/21 At 0345, reactor power was further reduced to 595 MWe to repair 21 SGFP seal water fittings. Complete isolation could not be obtained; therefore, repairs were postponed and the Unit returned to full reactor power at 0820.
- 10/28 At 1200, began reducing power to 310 MWe to encapsulate a steam leak on #22 S/G (bottom) blowdown line.
- 10/29 At 2100, all encapsulation attempts had failed and a maintenance outage was begun. At 2310, the breaker was opened.
- 10/31 The Unit was shutdown at the end of the month to replace the S/G blowdown line and inspect snubbers.

November 5, 1987

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 no changes to Technical Specifications.

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

February 12, 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