

# OPERATING DATA REPORT

DOCKET NO. 50-317  
 DATE 6/15/79  
 COMPLETED BY S. D. Merson  
 TELEPHONE 301-234-5240

## OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 1
2. Reporting Period: May, 1979
3. Licensed Thermal Power (MWt): 2700
4. Nameplate Rating (Gross MWe): 918
5. Design Electrical Rating (Net MWe): 845
6. Maximum Dependable Capacity (Gross MWe): 845
7. Maximum Dependable Capacity (Net MWe): 810
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	3,623	35,628
12. Number Of Hours Reactor Was Critical	0.0	2,225.0	28,313.6
13. Reactor Reserve Shutdown Hours	0.0	122.7	1,016.3
14. Hours Generator On-Line	0.0	2,196.8	27,741.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	0.0	5,562,437.2	66,832,641.6
17. Gross Electrical Energy Generated (MWH)	0	1,818,416	22,204,751
18. Net Electrical Energy Generated (MWH)	0	1,735,525	21,290,513
19. Unit Service Factor	0.0	60.6	77.9
20. Unit Availability Factor	0.0	60.6	77.9
21. Unit Capacity Factor (Using MDC Net)	0.0	59.1	73.4
22. Unit Capacity Factor (Using DER Net)	0.0	56.7	70.4
23. Unit Forced Outage Rate	0.0	16.8	8.5
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: June 25, 1979
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast	Achieved
_____	_____
_____	_____
_____	_____

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# OPERATING DATA REPORT

DOCKET NO. 50-318  
 DATE 6/15/79  
 COMPLETED BY S. D. Merson  
 TELEPHONE 301-234-5240

## OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 2
2. Reporting Period: May, 1979
3. Licensed Thermal Power (MWt): 2700
4. Nameplate Rating (Gross MWe): 911
5. Design Electrical Rating (Net MWe): 845
6. Maximum Dependable Capacity (Gross MWe): 845
7. Maximum Dependable Capacity (Net MWe): 810
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	3,623	18,983
12. Number Of Hours Reactor Was Critical	723.4	3,400.5	16,393.0
13. Reactor Reserve Shutdown Hours	20.6	20.6	240.0
14. Hours Generator C 1-Line	705.4	3,331.3	16,143.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,852,368.0	8,597,440.8	39,481,457.4
17. Gross Electrical Energy Generated (MWH)	608,692	2,890,700	13,144,772
18. Net Electrical Energy Generated (MWH)	582,127	2,766,053	12,534,082
19. Unit Service Factor	94.8	91.9	85.0
20. Unit Availability Factor	94.8	91.9	85.0
21. Unit Capacity Factor (Using MDC Net)	96.6	94.3	81.5
22. Unit Capacity Factor (Using DER Net)	92.6	90.4	78.1
23. Unit Forced Outage Rate	5.2	2.9	5.3

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Calvert Cliffs No. 2 is scheduled for a planned outage starting October 6, 1979, and will be six weeks in duration for general inspection and refueling.

25. If Shut Down At End Of Report Period, Estimated Date of Startup:

26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast	Achieved
_____	_____
_____	_____
_____	_____

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-317

UNIT Calvert Cliffs #1

DATE 6/15/79

COMPLETED BY S. D. Merson

TELEPHONE 301-234-5240

MONTH May, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	-	17	-
2	-	18	-
3	-	19	-
4	-	20	-
5	-	21	-
6	-	22	-
7	-	23	-
8	-	24	-
9	-	25	-
10	-	26	-
11	-	27	-
12	-	28	-
13	-	29	-
14	-	30	-
15	-	31	-
16	-		

## INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-318  
 UNIT Calvert Cliffs #2  
 DATE 6/15/79  
 COMPLETED BY S. D. Merson  
 TELEPHONE 301-234-5240

MONTH May, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	856
2	857
3	858
4	860
5	854
6	839
7	544
8	716
9	847
10	848
11	845
12	843
13	842
14	842
15	844
16	839

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	838
18	841
19	842
20	795
21	841
22	840
23	482
24	676
25	835
26	838
27	73
28	720
29	835
30	834
31	833

## INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

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## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317  
 UNIT NAME Calvert Cliffs No. 1  
 DATE 6/15/79  
 COMPLETED BY S. D. Merson  
 TELEPHONE 301-234-5240

REPORT MONTH May, 1979

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
79-3	790421	S	744.0	C	1	N/A	RC	FUELXX	Scheduled outage for reactor inspection and refueling and unit inspection.

<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 Licensee  
 Event Report (LER) File (NUREG-  
 0161)

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

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## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318  
 UNIT NAME Calvert Cliffs No. 2  
 DATE 6/15/79  
 COMPLETED BY S. D. Merson  
 TELEPHONE 301-234-5240

REPORT MONTH May, 1979

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
79-7	790507	F	9.4	A	3	N/A	EC	CKTBRK	Forced outage due to a blown fuse on DC power to 21 inverter which caused actuation of the "ESFAS" turbine undervoltage relay.
79-8	790523	F	10.6	A	1	N/A	EG	TRANSF	Forced outage taken in order to repair an oil leak on unit transformer U-22000-22.
79-9	790527	F	18.6	A	1	N/A	EG	TRANSF	To repair an oil leak on unit transformer U-22000-22

<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)

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 Method:  
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 3-Automatic Scram.  
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<sup>4</sup>  
 Exhibit G - Instructions  
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 0161)

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

(9/77)

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6/12/79

REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1
2. Scheduled date for next Refueling Shutdown: April 19, 1980
3. Scheduled date for restart following refueling: May 29, 1980
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 22, 1979

6. Important licensing considerations associated with refueling.

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

Selected fuel assemblies will be modified by installation of sleeves in the Guide Tubes.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.  
(a) 217                      (b) 300

Spent Fuel Pools are common to Units 1 and 2.

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.

1056 Licensed  
728 Currently Installed  
650 Addition is Planned

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.

October, 1983

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REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit 2
2. Scheduled date for next Refueling Shutdown: October 6, 1979
3. Scheduled date for restart following refueling: November 14, 1979
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.

August 15, 1979 \*\*

6. Important licensing considerations associated with 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) 300

Spent Fuel Pools are common to Units 1 and 2.

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been required or is planned, in number of fuel assemblies.

1056 Licensed

728 Currently Installed

650 Addition is Planned

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.

October, 1983

\*\* Information has changed since last monthly report.



SUMMARY OF UNIT 1 OPERATING EXPERIENCE

May 1979

- 5/1      At the beginning of this reporting period, Unit 1 was shut down for its scheduled third refueling outage.
- 5/21      At 0750, completed refueling the reactor.
- 5/29      At 2200, the reactor vessel head was installed.
- 5/31      At the end of this reporting period, Unit 1 remained shut down for its scheduled third refueling outage.

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## SUMMARY OF UNIT 2 OPERATING EXPERIENCE

May 1979

- 5/1 At the beginning of this reporting period, Unit 2 was operating at 900 MWe with the reactor at 100% power.
- 5/5 Load was reduced to 765 MWe at 2330 for main turbine control valve testing.
- 5/6 Full load operation (895 MWe) resumed at 0530 after completion of control valve testing.
- 5/7 The main turbine was automatically tripped at 1530 due to a blown fuse on DC power to 21 inverter, which caused an actuation of the engineered safety features Actuation System Turbine UV relay. The reactor tripped on loss of load. The reactor was brought critical at 2510.
- 5/8 The Unit was paralleled at 0055. Full load operation (883 MWe) resumed at 2330.
- 5/20 Load was decreased to 767 MWe at 0015 for main turbine control valve testing. Full load operation (870 MWe) resumed at 0600.
- At 1144 control element assembly (CEA) 36 dropped into the core. Reactor power was immediately reduced to less than 70% in accordance with the Technical Specifications. CEA 36 was withdrawn back to its group at 1230. Full load operation (870 MWe) resumed at 1830.
- 5/23 Began reducing load at 1150 to take the main turbine off line to repair an oil leak on Unit transformer U-22,000 - 22. The Unit was taken off line at 1545. The reactor remained critical.
- 5/24 The Unit was paralleled at 0216. Full load operation (860 MWe) resumed at 1230.
- 5/27 Began reducing load at 0025 to take the main turbine off line to repair an oil leak on Unit transformer U-22,000- 22. The Unit was taken off line at 0424. The reactor tripped at 0434 due to low steam generator levels. The reactor was brought critical at 1729 and the Unit was paralleled at 2258.
- 5/28 Full load operation (870 MWe) resumed at 1600.
- 5/31 At the end of this reporting period, Unit 2 was operating at 870 MWe with the reactor at 100% power.

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## SAFETY-RELATED MAINTENANCE

UNIT IGROUP I&CMONTH MAY YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
Wide Range Nuclear Instrumentation Channel "D"	IC-19-011 1/10/79	Defective proportional counter	Low source counts	Replaced detector
Wide Range Nuclear Instrumentation Channel "B"	IC-79-010 1/10/79	Defective proportional counter	Low source counts	Replaced detector

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## SAFETY-RELATED MAINTEN/NCE

UNIT IGROUP MAINTENANCEMONTH MAY YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
#11 Salt Water Pump	M-78-407 7/11/78	Badly worn shaft sleeve, shaft, and bearings. Stuffing box covered with scale and deteriorated paint.	Excessive gland leakoff. No adjustment of gland possible.	Reconditioned stuffing box, replaced shaft, shaft sleeve, and bearings. Re-packed pump.
1-RV-325 #12 Charging Pump Discharge Relief Valve	M-79-156 1/31/79	Scratched disc seating surface	Valve leaked by seat	Replaced disc assembly
1-MOV-509 Boric Acid Storage Tanks to Charging Pumps	M-79-280 3/15/79	Natural end of life - cyclic fatigue of parts.	Motor operator would not cycle	Rebuilt motor operator.

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## SAFETY-RELATED MAINTENANCE

UNIT II  
GROUP I&C  
MONTH MAY YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
Reactor Protective System/Reactor Coolant Total Flow Channel "D"	0-79-356 1/28/79	Defective flow transmitter instrument. 2-PDT-111D caused by leaking isolation valve	Reading out of tolerance	Replaced flow transmitter and repacked instrument isolation valve
#24 Containment Air Cooler/Service Water Flow Transmitter 1-FI-1592	0-79-884 3/11/79	Defective flow transmitter	Indicator pegged low	Replaced flow transmitter

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