

OPERATING DATA REPORT

DOCKET NO. 50-317
 DATE 10/13/79
 COMPLETED BY S. D. Merson
 TELEPHONE 301-234-5240

OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 1
2. Reporting Period: September, 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): 790 MWe
10. Reasons For Restrictions, If Any: Blade problems in the high-pressure turbine.

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	6,551	38,556
12. Number Of Hours Reactor Was Critical	713.5	4,159.3	30,247.9
13. Reactor Reserve Shutdown Hours	6.5	149.6	1,043.2
14. Hours Generator On-Line	710.4	3,980.6	24,525.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,352,363.2	9,934,507.6	71,204,712.0
17. Gross Electrical Energy Generated (MWH)	575,056	3,152,493	23,538,828
18. Net Electrical Energy Generated (MWH)	548,747	2,996,352	22,451,340
19. Unit Service Factor	98.7	60.8	76.6
20. Unit Availability Factor	98.7	60.8	76.6
21. Unit Capacity Factor (Using MDC Net)	94.1	56.5	71.9
22. Unit Capacity Factor (Using DER Net)	90.2	54.1	68.9
23. Unit Forced Outage Rate	1.3	19.8	9.5
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:

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

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

117 346

(9/77)

7910230567

OPERATING DATA REPORT

DOCKET NO. 50-318
 DATE 10/15/79
 COMPLETED BY S. D. Merson
 TELEPHONE 301-234-5240

OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 2
2. Reporting Period: September, 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): _____
10. Reasons For Restrictions, If Any: _____

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	6,551	21,911
12. Number Of Hours Reactor Was Critical	570.4	6,024.6	19,017.1
13. Reactor Reserve Shutdown Hours	14.8	189.7	409.1
14. Hours Generator On-Line	562.5	5,909.1	18,720.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,400,198.4	15,225,235.2	46,104,251.8
17. Gross Electrical Energy Generated (MWH)	458,608	5,040,208	15,294,280
18. Net Electrical Energy Generated (MWH)	434,987	4,815,488	14,583,517
19. Unit Service Factor	78.1	90.2	85.4
20. Unit Availability Factor	78.1	90.2	85.4
21. Unit Capacity Factor (Using MDC Net)	74.6	90.8	82.2
22. Unit Capacity Factor (Using DER Net)	71.5	87.0	78.8
23. Unit Forced Outage Rate	21.9	6.4	6.1

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Calvert Cliffs No. 2 Plant is scheduled for a planned outage starting October 14, 1979, and will be six weeks in duration for overhaul 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
_____	_____
_____	_____
_____	_____

1107 347

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-317
 UNIT Calvert Cliffs #1
 DATE 10/15/79
 COMPLETED BY S. D. Merson
 TELEPHONE 301-234-5240

MONTH September, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>772</u>
2	<u>803</u>
3	<u>803</u>
4	<u>734</u>
5	<u>795</u>
6	<u>763</u>
7	<u>310</u>
8	<u>790</u>
9	<u>718</u>
10	<u>699</u>
11	<u>724</u>
12	<u>709</u>
13	<u>795</u>
14	<u>799</u>
15	<u>779</u>
16	<u>801</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>732</u>
18	<u>729</u>
19	<u>800</u>
20	<u>807</u>
21	<u>808</u>
22	<u>809</u>
23	<u>812</u>
24	<u>810</u>
25	<u>807</u>
26	<u>734</u>
27	<u>795</u>
28	<u>809</u>
29	<u>811</u>
30	<u>809</u>
31	<u></u>

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.

1107 348

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-318

UNIT Calvert Cliffs #2

DATE 10/15/79

COMPLETED BY S. D. Marson

TELEPHONE 301-234-5240

MONTH September, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>808</u>
2	<u>743</u>
3	<u>827</u>
4	<u>825</u>
5	<u>825</u>
6	<u>760</u>
7	<u>797</u>
8	<u>610</u>
9	<u>-</u>
10	<u>-</u>
11	<u>-</u>
12	<u>-</u>
13	<u>-</u>
14	<u>112</u>
15	<u>626</u>
16	<u>756</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>824</u>
18	<u>828</u>
19	<u>171</u>
20	<u>800</u>
21	<u>835</u>
22	<u>836</u>
23	<u>809</u>
24	<u>764</u>
25	<u>838</u>
26	<u>744</u>
27	<u>731</u>
28	<u>833</u>
29	<u>771</u>
30	<u>735</u>
31	<u></u>

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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(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317
 UNIT NAME Calvert Cliffs No. 1
 DATE 10/15/79
 COMPLETED BY S. D. Merson
 TELEPHONE 301-234-5240

REPORT MONTH September, 1979

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
79-11	790906	F	9.6	A	C	NA	CH	INSTRU	Reactor tripped on low-steam generator level due to a failed differential pressure controller on 12 feedwater regulating valve.

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

⁵ Exhibit I - Same Source

(9/77)

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs No. 2
 DATE 10/15/79
 COMPLETED BY S. D. Merson
 TELEPHONE 301-234-5240

REPORT MONTH September, 1979

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
79-14	790908	F	140.8	A	3	NA	CB	Motor X	Forced outage due to a failure of the Field B phase capacitor in No. 21B reactor coolant pump motor.
79-15	790919	F	16.7	A	3	NA	CH	PumpXX	Reactor tripped on low-steam generator level due to loss of 21 main feedwater pump speed controller.

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

⁵ Exhibit I - Same Source

(9/77)

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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, 1980

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

10/9/79

REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit 2
2. Scheduled date for next refueling shutdown: October 14, 1979
3. Scheduled date for restart following refueling: November 21, 1979
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

A preliminary review of the design and safety analysis indicate that no changes to the Technical Specification or other amendments are required and that there will be no unreviewed safety questions as defined by 10 CFR 50.59 involved with this reload core design.

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

August 22, 1979 (if required).

6. Important licensing considerations associated with refueling.

None, reload fuel will be identical to that reload fuel inserted in 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

117 353

SUMMARY OF UNIT 1 OPERATING EXPERIENCE - SEPTEMBER 1979

- 9/1 At the beginning of this reporting period Unit 1 was operating at 815 MWe. Reactor Power was limited to 97% due to in-core Power Distribution problems. At 0300, load was decreased to 735 MWe to investigate salt water leakage into the main condenser. Full load operation (835 MWe) was resumed at 1300 after plugging one condenser tube.
- 9/4 Load was decreased at 1400 to 665 MWe to investigate salt water leakage into the main condenser.
- 9/5 Load was increased to capacity (835 MWe) at 0400 after plugging one condenser tube.
- 9/6 Decreased load to 715 MWe at 0015 to investigate salt water leakage into the main condenser. One condenser tube was plugged and full load operation (835 MWe) was resumed at 0900. At 2357 the reactor tripped on low steam generator level due to a failed differential pressure controller on 12 feedwater regulating valve.
- 9/7 The reactor was brought critical at 0625 and the unit paralleled at 0933. Full load operation (820 MWe) was resumed at 2130.
- 9/9 At 0600 Load was decreased to 715 MWe to investigate salt water leakage into the main condenser. Load was increased to 820 MWe at 2020. At 2330 load was decreased to 715 MWe to investigate salt water leakage into the main condenser.
- 9/11 Started increasing load at 1630 after plugging one condenser tube and at 2120 load was reduced to 735 MWe to investigate salt water leakage into the main condenser.
- 9/12 Load was increased to 815 MWe at 2400.

- 9/15 Reduced load to 730 MWe at 1331 to investigate salt water leakage into the main condenser.
- 9/16 Increased load to capacity (835 MWe) at 0500.
- 9/17 At 1200 load was decreased to 705 MWe to investigate salt water leakage into the main condenser.
- 9/18 Full load operation (835 MWe) was resumed at 1800 after plugging three condenser tubes.
- 9/25 Decreased load to 755 MWe at 2245 to investigate salt water leakage into the main condenser.
- 9/26 One condenser tube was plugged and increased load to capacity (835 MWe) at 1800. At 2200, reduced load to 685 MWe to investigate salt water leakage into the main condenser.
- 9/27 At 0800 load was increased to capacity (835 MWe).
- 9/28 Reduced load to 825 MWe to work on the normal level control valve for 16B Feedwater heater. Full load operation (845 MWe) was resumed at 1320.
- 9/30 At the end of this reporting period, Unit 1 was operating at 845 MWe with the reactor at 100% power.

1127 355

SUMMARY OF UNIT 2 OPERATING EXPERIENCE - SEPTEMBER 1979

- 9/1 At the beginning of this reporting period Unit 2 was operating at 780 MWe. Reactor power was limited to 93% to investigate salt water leakage into the main condenser. At 0700, full load operation (845 MWe) was resumed after one condenser tube was plugged.
- 9/2 At 0330 load was reduced to 585 MWe to align control element assembly 42. Load was increased to capacity (845 MWe) at 1000. At 1430 load was decreased to 815 MWe due to in-core alarms. Full load operation (855 MWe) was resumed at 2355.
- 9/6 Decreased load to 795 MWe at 0430 to investigate salt water leakage into the main condenser.
- 9/7 Plugged one condenser tube and increased load to capacity (855 MWe) at 0900. At 1801 the reactor tripped on loss of flow due to a surge capacitor failure on 21B reactor coolant pump.
- 9/10 At 0450 the unit was in cold shutdown. Started draining the reactor coolant system at 1830.
- 9/11 Secured draining the reactor coolant system at 1015.
Commenced filling the reactor coolant system at 1336.
Secured filling the reactor coolant system at 1447. At 1815 commenced reactor coolant system heatup.
- 9/14 The reactor was brought critical at 0310. The reactor was shutdown when control element assembly 5 dropped into the core at 0631. The reactor was again brought critical at 1210 and the unit paralleled at 1447. Holding load at 600 MWe to investigate saltwater leakage into the main condenser.
- 9/16 Increased load to capacity 860 MWe at 2200 after plugging two condenser tubes.

- 9/19 At 0440, the reactor tripped on low steam generator level due to loss of 21 main feedwater pump speed controller. The reactor was brought critical at 1930 and the Unit paralleled at 2125.
- 9/20 Resumed full load operation (865 MWe) at 2100.
- 9/23 Decreased load to 755 MWe at 2200 to investigate saltwater leakage into the main condenser.
- 9/24 Plugged two condenser tubes and increased load to capacity (865 MWe) at 1740.
- 9/26 At 0545, decreased load to 710 MWe due to intake screen problems. Increased load to 865 MWe at 2200.
- 9/27 Reduced load to 710 MWe at 0800 to investigate saltwater leakage into the main condenser. Resumed full load operation at 2100.
- 9/29 At 1400, reduced load to 725 MWe to investigate saltwater leakage into the main condenser.
- 9/30 At the end of the reporting period load was being increased to capacity (865 MWe), after plugging one condenser tube.

1107 357

SAFETY-RELATED MAINTENANCE

UNIT I

GROUP I&C

MONTH SEPTEMBER YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
Safety Injection Tank 12A Pressure Indication 1-PI-331	IC-79-066 5/16/79	Pressure instrument out of adjustment	Received out of spec. reading during loop calibration	Performed func- tional test and adjusted instrument
Component Cooling Heat Exchanger 1-CV-5208 Saltwater Outlet Valve	0-79-1765 6/13/79	The valve hand controller was out of adjustment and was not receiving a proper air signal	The valve would be open with the valve hand controller out- put on zero	Adjusted valve hand controller and adjusted supply air to the control- ler
12 Main Steam Isolation Valve Hydraulic Package	0-79-1813 6/18/79	Air and dirt in in- strument sensing line	Hydraulic fluid reser- voir level gauge not reading properly	Bled air and dirt from sensing line
11 Main Steam Isolation Valve Hydraulic Package #2 High Pressure Surge Accumulator Pressure Gauge	0-79-1523 5/23/79	Gauge was out of adjustment	#11 MSIV-#2 high pres- sure surge accumulator gas pressure gauge was indicating wrong	Adjusted gauge to proper zero and cleaned gauge snubber

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SAFETY-RELATED MAINTENANCE

UNIT IGROUP ELECTRIC SHOPMONTH SEPTEMBER YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
Main Steam Isolation Valve Bypass 1-MOV-4045	E-79-104 6/13/79	Valve operator limit switches out of adjust- ment, damaged flexible conduit, close torque switch had dirty contacts	Erratic operation of valve	Adjusted limit switches, replaced flexible conduit and connectors, and cleaned close torque switch contacts

1107 359

SAFETY-RELATED MAINTENANCE

UNIT IGROUP I&CMONTH SEPTEMBER YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
Reactor Coolant System/ Pressurizer Level Controller Instrument 1-LIC-110X 1-LIC-110Y	0-79-2069 7/10/79	Level transmitters out of adjustment	Greater than 10 inch deviation between the two instruments	Performed func- tional tests on transmitters and readjusted

1127 360

SAFETY-RELATED MAINTENANCE

UNIT II

GROUP MACHINE SHOP

MONTH SEPTEMBER YEAR 1979

SYSTEM OR COMPONENT	MR NO. - DATE	MALFUNCTION		CORRECTIVE ACTION
		CAUSE	RESULT	
21 Charging Pump	0-79-2423 8/10/79	Cyclic fatigue	Excessive packing leakage	Replaced packing and plungers.
22 Charging Pump	0-79-1953 7/13/79	Cyclic fatigue	Excessive packing leakage	Replaced packing and plungers.
21 Main Steam Isolation Valve	0-79-1680 7/31/79	Solenoid valve 2-SV-4044 sticking	Main steam isolation valve took too long to close during test	Replaced solenoid valve.
21 Charging Pump	0-79-2670 9/6/79	Cyclic fatigue	Excessive packing leakage	Replaced packing and plungers
23 Charging Pump Desurger	0-79-2132 7/18/79	Broken valve stem on bladder	Unable to charge bladder	Replaced bladder and associated seals.

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