

OPERATING DATA REPORT

DOCKET NO. 50-317
 DATE 5/14/81
 COMPLETED BY E. M. Lotito
 TELEPHONE 301-787-5363

OPERATING STATUS

<p>1. Unit Name: <u>Calvert Cliffs No. 1</u></p> <p>2. Reporting Period: <u>April, 1981</u></p> <p>3. Licensed Thermal Power (MWt): <u>2,700</u></p> <p>4. Nameplate Rating (Gross MWe): <u>918</u></p> <p>5. Design Electrical Rating (Net MWe): <u>845</u></p> <p>6. Maximum Dependable Capacity (Gross MWe): <u>860</u></p> <p>7. Maximum Dependable Capacity (Net MWe): <u>825</u></p> <p>8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>Maximum dependable capacity (Gross MWe) increased from 845 to 860 and maximum</u> <u>dependable capacity (Net MWe) increased from 810 to 825 at 0001 April 1, 1981.</u></p> <p>9. Power Level To Which Restricted, If Any (Net MWe): _____</p> <p>10. Reasons For Restrictions, If Any: _____</p>	<p>Notes</p>
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	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	719.0	2,879.0	52,428.0
12. Number Of Hours Reactor Was Critical	587.2	2,501.2	41,437.9
13. Reactor Reserve Shutdown Hours	0.0	229.9	1,494.0
14. Hours Generator On-Line	579.7	2,452.5	40,505.2
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,520,292	6,308,175	96,874,967
17. Gross Electrical Energy Generated (MWH)	509,307	2,121,044	31,715,277
18. Net Electrical Energy Generated (MWH)	486,791	2,027,822	30,220,070
19. Unit Service Factor	80.6	85.2	77.3
20. Unit Availability Factor	80.6	85.2	77.3
21. Unit Capacity Factor (Using MDC Net)	82.1	86.8	71.4
22. Unit Capacity Factor (Using DER Net)	80.1	83.4	68.2
23. Unit Forced Outage Rate	0.0	10.5	8.6
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	_____	_____

OPERATING DATA REPORT

DOCKET NO. 50-318
 DATE 5/14/81
 COMPLETED BY E. M. Lotito
 TELEPHONE 301-787-5363

OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 2
2. Reporting Period: April, 1981
3. Licensed Thermal Power (MWt): 2,700
4. Nameplate Rating (Gross MWe): 911
5. Design Electrical Rating (Net MWe): 845
6. Maximum Dependable Capacity (Gross MWe): 860
7. Maximum Dependable Capacity (Net MWe): 825
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	<u>719.0</u>	<u>2,879.0</u>	<u>35,783.0</u>
12. Number Of Hours Reactor Was Critical	<u>553.7</u>	<u>1,425.3</u>	<u>29,845.1</u>
13. Reactor Reserve Shutdown Hours	<u>153.0</u>	<u>153.5</u>	<u>595.3</u>
14. Hours Generator On-Line	<u>541.8</u>	<u>1,370.1</u>	<u>29,407.2</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,421,198</u>	<u>2,958,442</u>	<u>71,710,073</u>
17. Gross Electrical Energy Generated (MWH)	<u>473,443</u>	<u>978,829</u>	<u>23,707,796</u>
18. Net Electrical Energy Generated (MWH)	<u>451,474</u>	<u>920,523</u>	<u>22,590,497</u>
19. Unit Service Factor	<u>75.4</u>	<u>47.6</u>	<u>82.2</u>
20. Unit Availability Factor	<u>75.4</u>	<u>47.6</u>	<u>82.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>76.1</u>	<u>38.8</u>	<u>77.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>74.3</u>	<u>37.8</u>	<u>74.7</u>
23. Unit Forced Outage Rate	<u>24.6</u>	<u>12.0</u>	<u>5.6</u>
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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-317

UNIT Calvert Cliffs No. 1

DATE 5/14/81

COMPLETED BY E. M. Lotito

TELEPHONE 301-787-5363

MONTH April, 1981

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>869</u>
2	<u>869</u>
3	<u>771</u>
4	<u>-</u>
5	<u>-</u>
6	<u>-</u>
7	<u>-</u>
8	<u>-</u>
9	<u>30</u>
10	<u>602</u>
11	<u>868</u>
12	<u>868</u>
13	<u>867</u>
14	<u>868</u>
15	<u>839</u>
16	<u>868</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>870</u>
18	<u>869</u>
19	<u>843</u>
20	<u>866</u>
21	<u>867</u>
22	<u>866</u>
23	<u>866</u>
24	<u>866</u>
25	<u>860</u>
26	<u>764</u>
27	<u>867</u>
28	<u>867</u>
29	<u>868</u>
30	<u>867</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.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-318

UNIT Calvert Cliffs No2

DATE 5/14/81

COMPLETED BY E. M. Lotito

TELEPHONE 301-787-5363

MONTH April, 1981

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>863</u>
2	<u>862</u>
3	<u>863</u>
4	<u>857</u>
5	<u>817</u>
6	<u>863</u>
7	<u>864</u>
8	<u>862</u>
9	<u>861</u>
10	<u>850</u>
11	<u>812</u>
12	<u>277</u>
13	<u>-</u>
14	<u>-</u>
15	<u>-</u>
16	<u>-</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>-</u>
18	<u>-</u>
19	<u>22</u>
20	<u>611</u>
21	<u>853</u>
22	<u>860</u>
23	<u>865</u>
24	<u>863</u>
25	<u>864</u>
26	<u>828</u>
27	<u>865</u>
28	<u>865</u>
29	<u>865</u>
30	<u>862</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April, 1981

DOCKET NO. 50-317
 UNIT NAME Calvert Cliffs No. 1
 DATE 5/14/81
 COMPLETED BY E. M. Lotito
 TELEPHONE 301-787-5363

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
81-03	810403	S	139.2	B	1		XX	ZZZZZZ	Unit and reactor shutdown to conduct snubber inspections, hanger modifications and miscellaneous repairs.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs No. 2
 DATE 5/14/81
 COMPLETED BY E. M. Iotito
 TELEPHONE 301-787-5363

REPORT MONTH April, 1981

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
81-06	810412	F	169.1	G	3		XX	ZZZZZZ	While returning to full load from a leak in No. 21 condenser, the operator shot an excessive amount of boric acid to the reactor coolant system which resulted in a reactor trip on high steam generator level. Start-up was delayed when excessive oil leakage around the turbine shaft at the thrust bearing was discovered. This required machining of the turbine Jack Shaft and Installation of a new Oil Seal.
81-07	810419	F	8.1	A	3		XX	ZZZZZZ	While returning from above outage the reactor tripped on low steam generation level due to problems with the turbine auto stop oil system and No. 21 feed-water regulating by pass valve 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)

May 14, 1981

REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1
2. Scheduled date for next Refueling Shutdown: April 16, 1982.
3. Scheduled date for restart following refueling: May 31, 1982.
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.

January 26, 1982

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)

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.

1358 Licensed

1028 Currently Installed

472 Licensed 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, 1985

May 14, 1981

REFUELING INFORMATION REQUEST

1. Name of Facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2.
2. Scheduled date for next refueling shutdown: October 15, 1982.*
3. Scheduled date for restart following refueling: November 29, 1982.*
4. Will refueling or resumption of operation thereafter require a technical specification change or other licesned 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 21, 1982*

6. Important licensing considerations associated with refueling.

Reload fuel will be similar 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) 584
Spent Fuel Pool is common to Units 1 & 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.

1358 Licensed
1028 Currently Installed
472 Licensed 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, 1985

*Information changed since last report.

SUMMARY OF UNIT 1 OPERATING EXPERIENCE - APRIL 1981

- 4/1 At the beginning of this reporting period Unit 1 was operating at 905 MWe with the reactor at 100% power.
- 4/3 The Unit was taken off the line at 2237 for a planned maintenance outage. The reactor was shutdown at 2300.
- 4/6 The Reactor was placed in cold shutdown at 1615.
- 4/9 Reactor Coolant System (RCS) heatup was completed at 0330. The reactor was brought critical at 1025 and the Unit paralleled at 1754. At 2130, load was limited to 290 MWe for investigation of saltwater leakage into the main condenser and repair of #12 Main Circulating Water Pump.
- 4/10 Load was increased to capacity (890 MWe) at 2030.
- 4/15 At 1800 load was decreased to 785 MWe for cleaning condenser water boxes.
- 4/16 Resumed full load operation (890 MWe) at 0030.
- 4/19 Operated at reduced load (750 MWe) at 0245 while testing main turbine control valves and cleaning condenser water boxes. Load was increased to capacity (895 MWe) at 0723.
- 4/25 Decreased load to 755 MWe at 2340 to clean condenser water boxes.
- 4/26 Resumed full load operation (895 MWe) at 1200.
- 4/30 At the end of this reporting period, Unit 1 was operating at 895 MWe with the reactor at 100% power.

SUMMARY OF UNIT 2 OPERATING EXPERIENCE - APRIL 1981

- 4/1 At the beginning of this reporting period Unit 2 was operating at 900 MWe with the reactor at 100% power.
- 4/5 Decreased load to 735 MWe at 0115 to clean condenser water boxes. Resumed full load operation (895 MWe) at 0905.
- 4/10 At 2300 load was reduced to 750 MWe to investigate saltwater leakage into the main condenser.
- 4/11 Load was increased to 900 MWe at 1230 when indications of saltwater leakage disappeared.
- 4/12 Decreased load to 740 MWe at 0020 to clean condenser water boxes. A further reduction to 675 MWe was necessary due to rising condenser ΔT . While returning to full power, an excessive amount of boric acid was shot to the RCS. This resulted in a reactor trip on high Steam Generator level at 0941. After the trip it was discovered that there was excessive oil leakage around the turbine shaft at the thrust bearing. This required machining the turbine jack shaft and installation of a new oil seal.
- 4/19 The reactor was brought critical at 0305. The turbine tripped at 0918 due to problems with the turbine auto stop oil system. The reactor tripped at 1045 on low steam generator level due to problems with 21 feedwater regulating bypass valve controller. The Unit was paralleled at 1852.
- 4/20 Load was limited to 700 MWe at 1420 to investigate saltwater leakage into the main condenser.
- 4/21 Increased load to capacity (895 MWe) at 0530 after plugging 1 condenser tube.
- 4/30 At the end of this reporting period, Unit 2 was operating at 895 MWe with the reactor at 100% power.