OPERATING DATA REPORT

DOCKET NO. 50-317
DATE 9/14/81
COMPLETED BY Elaine Lotito
TELEPHONE (301) 787-5363

OPERATING STATUS

1. Unit Name: CALVERT CLIFFS NO. 1
2. Reporting Period: AUGUST, 1981
3. Licensed Thermal Power (MWt): 2,700
4. Nameplate Rating (Gross MWe): 918
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	744.0	5,831.0	55,380.0
12. Number Of Hours Reactor Was Critical	725.0	4,977.2	43,913.9
13. Reactor Reserve Shutdown Hours	0.0	400.6	1,664.7
14. Hours Generator On-Line	722.6	4,879.7	42,932.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,825,507	12,577,952	103,144,744
17. Gross Electrical Energy Generated (MWH)	589,528	4,077,821	33,672,054
18. Net Electrical Energy Generated (MWH)	562,325	3,888,429	32,080,677
19. Unit Service Factor	97.1	83.7	77.5
20. Unit Availability Factor	97.1	83.7	77.5
21. Unit Capacity Factor (Using MDC Net)	91.6	81.5	71.7
22. Unit Capacity Factor (Using DER Net)	89.4	78.9	68.5
23. Unit Forced Outage Rate	2.9	13.1	9.0

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 9/14781
COMPLETED BY Elaine Lotito
TELEPHONE (301) 787-5363

OPERATING STATUS

1. Unit Name: CALVERT CLIFFS NO. 2
2. Reporting Period: AUGUST, 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

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

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	744.0	5,831.0	38,735.0
12. Number Of Hours Reactor Was Critical	731.9	4,358.7	32,778.5
13. Reactor Reserve Shutdown Hours	12.1	172.1	613.9
14. Hours Generator On-Line	727.8	4,296.9	32,334.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,746,254	10,019,773	78,771,404
17. Gross Electrical Energy Generated (MWH)	555,258	3,344,601	26,073,568
18. Net Electrical Energy Generated (MWH)	528,398	3,178,857	24,848,831
19. Unit Service Factor	97.8	73.7	83.5
20. Unit Availability Factor	97.8	73.7	83.5
21. Unit Capacity Factor (Using MDC Net)	86.1	66.5	78.6
22. Unit Capacity Factor (Using DER Net)	84.1	64.5	75.9
23. Unit Forced Outage Rate	2.2	4.7	5.2

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		

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-317
UNIT Calvert Cliffs 1
DATE 9/14/81
COMPLETED BY Elaine Lotito
TELEPHONE (301) 787-5363

MONTH August, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	824	17	721
2	824	18	751
3	814	19	832
4	718	20	768
5	824	21	753
6	780	22	755
7	823	23	823
8	819	24	814
9	796	25	831
10	781	26	764
11	794	27	727
12	776	28	803
13	776	29	825
14	740	30	1
15	725	31	688
16	761		

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.

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-318
UNIT Calvert Cliffs 2
DATE 9/14/81
COMPLETED BY Elaine Lotito
TELEPHONE (301) 787-5363

MONTH August, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	760	17	746
2	829	18	718
3	690	19	721
4	781	20	339
5	729	21	99
6	824	22	758
7	774	23	848
8	774	24	767
9	700	25	782
10	689	26	738
11	692	27	730
12	692	28	738
13	745	29	759
14	713	30	736
15	714	31	735
16	710		

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 August, 1981

DOCKET NO. 50-317
UNIT NAME Calvert Cliffs No. 1
DATE 9/14/81
COMPLETED BY Elaine Lotito
TELEPHONE (301) 787-5262

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
81-14	810830	F	21.4	A	3		IA	CKTBRK	Tripped while performing test on Reactor protective system due to loose latch arm on No. 4 Breaker.

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)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
UNIT NAME Calvert Cliffs No. 2
DATE 9/14/81
COMPLETED BY Elaine Lotito
TELEPHONE (301) 787-5363

REPORT MONTH August, 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
81-09	810820	F	32.0	A	5		XX	ZZZZZZ	Forced reductions due to condenser leaks and loss of circulating water pump.
81-10	810821	F	16.2	A	3		XX	ZZZZZZ	#21 Feed pump tripped due to high thrust bearing wear.

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) Continuation
5-Load reduction
9-Other

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)

September 11, 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) 584
   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

September 11, 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 licensed 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

SUMMARY OF UNIT 1 OPERATING EXPERIENCE - AUGUST 1981

8/1 At the beginning of this reporting period Unit 1 was operating at 865 MWe with the reactor at 100% power.

8/4 At 0001 load was decreased to 725 MWe for replacement of 11A traveling screen. At 0300, after replacing 11A traveling screen, load was limited to 725 MWe to investigate saltwater leakage into the main condenser. After plugging 3 condenser tubes resumed full load operation (855 MWe) at 2230.

8/6 At 0045 load was reduced to 750 MWe to investigate saltwater leakage into the main condenser. Increased load to capacity (855 MWe) at 1130 after plugging 1 condenser tube.

8/9 Operated at reduced load (730 MWe) from 0100 to 0445 while testing main turbine control valves. Resumed full load operation (865 MWe) at 0730.

8/10 At 1155 load was reduced to 740 MWe investigate saltwater leakage into the main condenser. Located and plugged 2 leaking condenser tubes. Load was increased to capacity (865 MWe) at 2200.

8/11 At 1500 load was reduced to 715 MWe to investigate saltwater leakage into the main condenser. After plugging 1 condenser tube resumed full load operation (865 MWe) at 1930.

8/12 At 0500 load was reduced to 730 MWe to investigate saltwater leakage into the main condenser. Increased load to capacity (865 MWe) at 1340 after plugging 1 condenser tube.

8/13 At 1700 load was reduced to 730 MWe to investigate saltwater leakage into the main condenser.

8/14 After plugging 2 condenser tubes resumed full load operation (860 MWe) at 1840.

8/15 At 0001 load was reduced to 730 MWe to investigate saltwater leakage into the main condenser. Located and plugged 2 leaking condenser tubes. Resumed full load operation (860 MWe) at 2359.

8/16 At 1200 load was reduced to 775 MWe to investigate saltwater leakage into the main condenser.

8/18 Increased load to capacity (860 MWe) at 1810 after plugging 6 condenser tubes.

8/20 At 0845 load was reduced to 770 MWe to investigate saltwater leakage into the main condenser.

8/23 At 0125 load was further reduced to 750 MWe while testing main turbine control valves. After plugging 5 condenser tubes resumed full load operation (855 MWe) at 0430. At 2345 load was reduced to 770 MWe to investigate saltwater leakage into the main condenser.

8/24 Increased load to capacity (875 MWe) at 0900 after plugging 1 condenser tube.

8/25 At 0210 load was reduced to 820 MWe to investigate saltwater leakage into the main condenser. Started increasing load to capacity at 0230 after indications of saltwater leakage disappeared. Load was increased to 840 MWe at 0405 when indication of saltwater leakage returned. At 0535 load was reduced to 830 MWe to investigate. Load was increased to 880 MWe at 0800 when indications of saltwater leakage disappeared.

8/26 At 0535 load was reduced to 780 MWe to investigate saltwater leakage into the main condenser. After plugging 1 condenser tube resumed full load operation (860 MWe) at 1900. At 2100 load was reduced to 760 MWe to investigate saltwater leakage into the main condenser. At 2150 Control Element Assembly (CEA) 1 dropped into the core. Reactor power was immediately reduced to less than 70% in accordance with the Technical Specifications. CEA 1 was withdrawn back to its group at 2325 and commenced increasing load.

8/27 Load was limited to 780 MWe at 0235 to investigate saltwater leakage into the main condenser.

8/28 Increased load to capacity (865 MWe) at 1500 after plugging 1 condenser tube.

8/29 At 2000 load was reduced to 785 MWe to investigate saltwater leakage into the main condenser.

8/30 At 0035, after plugging 1 condenser tube, commenced increasing load to capacity. At 0045, while conducting a surveillance test of the reactor protective system, a loose latch arm on #4 breaker opened resulting in a reactor trip. The reactor was brought critical at 1946 and the unit paralleled at 2011.

8/31 Load was increased to capacity (865 MWe) at 1100. At 2200 load was reduced to 785 MWe to investigate saltwater leakage into the main condenser. At the end of this reporting period Unit 1 was operating at 795 MWe with the reactor 90% power, while investigating saltwater leakage into the main condenser.

SUMMARY OF UNIT 2 OPERATING EXPERIENCE - AUGUST 1981

8/1 At the beginning of this reporting period Unit 2 was operating at 865 MWe with the reactor at 100% power. At 0600 load was reduced to 740 MWe to investigate saltwater leakage into the main condenser. After plugging 1 condenser tube resumed full load operation (860 MWe) at 1745.

8/3 At 0250 load was reduced to 670 MWe to investigate saltwater leakage into the main condenser.

8/4 Located and plugged 4 leaking condenser tubes. Load was increased to capacity (860 MWe) at 0900. At 2000 load was reduced to 760 MWe to investigate saltwater leakage into the main condenser.

8/6 Increased load to capacity (860 MWe) at 0230 after plugging 4 condenser tubes.

8/7 At 0830 load was reduced to 720 MWe to investigate saltwater leakage into the main condenser. After plugging 2 condenser tubes resumed full load operation (865 MWe) at 1500. At 2030 load was reduced to 740 MWe to investigate saltwater leakage into the main condenser.

8/8 After plugging 2 condenser tubes resumed full load operation (865 MWe) at 0815. At 2030 load was reduced to 750 MWe to investigate saltwater leakage into the main condenser.

8/9 Located and plugged 2 leaking condenser tubes.

8/13 Increased load to capacity (870 MWe) at 0330 after plugging 5 condenser tubes. At 0900 load was reduced to 735 MWe to investigate saltwater leakage into the main condenser. After indications of saltwater leakage disappeared load was increased to 840 MWe at 1600, stabilizing at this load due to loss of the plant computer.

Decreased load to 700 MWe at 1935 due to loss of the plant computer.

8/14 Commenced increasing load at 0510 after the plant computer was returned to service. At 0830, load was limited to 785 MWe to investigate saltwater leakage into the main condenser. After plugging 1 condenser tube, load was increased to 845 MWe at 2118 when indications of saltwater leakage into the main condenser returned. Decreased load to 735 MWe at 2359 to investigate.

8/17 After plugging 12 condenser tubes resumed full load operation (865 MWE) at 1420. At 1735 load was reduced to 750 MWe to investigate saltwater leakage into the main condenser.

8/20 A further load reduction to 300 MWe was necessitated due to maintenance on #26 Circulating Water Pump at 0200.

8/21 Located and plugged 5 leaking condenser tubes. At 0309 the reactor tripped on low steam generator level when #21 Steam Generator Feed Pump tripped due to a faulty thrust bearing wear detector. The reactor was brought critical at 1517 and the unit paralleled at 1919.

8/22 Load was increased to capacity (875 MWe) at 1200.

8/24 At 0450 load was reduced to 770 MWe to investigate saltwater leakage into the main condenser. After plugging 2 condenser tubes resumed full load operation (865 MWe) at 2030. At 2315 load was reduced to 820 MWe to investigate saltwater leakage into the main condenser.

8/25 Increased load to capacity (880 MWe) at 0900 after plugging 2 condenser tubes. At 1420 load was reduced to 770 MWe to investigate saltwater leakage into the main condenser. After plugging 1 condenser tube resumed full load operation (865 MWe) at 2150.

8/26 At 0015 load was reduced to 780 MWe to investigate saltwater leakage into the main condenser.

8/31 Located and plugged 9 leaking condenser tubes. At the end of this reporting period Unit 2 was operating at 775 MWe with the reactor at 90% power, while investigating saltwater leakage into the main condenser.