OPERATING DATA REPORT

DOCKET NO. 50-317

DATE 7/15/81

COMPLETED BY Elaine Lotito (301) 787-5363

OPERATING STATUS		Two.					
1. Unit Name: Calvert Cliffs N	0. 1	Notes					
2. Reporting Period: June, 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 N							
7. Maximum Dependable Capacity (Net MV	Ve): 825						
8. If Changes Occur in Capacity Ratings (It	. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since L						
		•					
9. Power Level To Which Restricted, If Any	(Net MWe):						
O. Reasons For Restrictions, If Any:							
	This Month	Yrto-Date	Cumulativ				
1. Hours In Reporting Period	720.0	4,343.0	53,892.0				
2. Number Of Hours Reactor Was Critical	657.8	3,855.6	42,792.3				
3. Reactor Reserve Shutdown Hours	2.0	231.9	1,496.0				
4. Hours Generator On-Line	649.5	3,777.3	41,830.0				
5. Unit Reserve Shutdown Hours	0.0	0.0	0.0				
6. Gross Thermal Energy Generated (MWH)	1,783,301	9,888,438	100,455,230				
7. Gross Electrical Energy Generated (MWH	EAC ONE	3,225,172	32,819,405				
8. Net Electrical Energy Generated (MWH)	481,738	3,080,478	31,272,726				
O. Unit Service Factor	90.2	87.0	77.6				
O. Unit Availability Factor	90.2	87.0	77.6				
I. Unit Capacity Factor (Using MDC Net)	81.1	87.0	71.9				
2. Unit Capacity Factor (Using DER Net)	79.2	83.9	68.7				
3. Unit Forced Outage Rate	8.9	8.5	8.4				
4. Shutdowns Scheduled Over Next 6 Month	ns (Type, Date, and Duration	of Each):					
5. If Shut Down At End Of Report Period, I							
6. Units In Test Status (Prior to Commercial	Operation):	Forecast	Achieved				
INITIAL CRITICALITY	Y	-					
INITIAL ELECTRICIT	Y						
COMMERCIAL OPER							

OPERATING DATA REPORT

DOCKET NO. 50-318

DATE 7/15/81

COMPLETED BY Elaine Lotito (301) 787-5363

OPERATING STATUS					
1 Unit Name: Calvert Cliffs No. 2		Notes			
1. Unit Name: Calvert Gills No. 2 2. Reporting Period: June, 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				
	825				
 Maximum Dependable Capacity (Net MWe): If Changes Occur in Capacity Ratings (Items No. 	mbar 2 Through 7) Cia	and David Circ D			
- The changes Occur in Capacity Ratings (Hems No	imber 3 Through 7/3h	ce Last Report, Give Re			
9. Power Level To Which Restricted, If Any (Net ! 10. Reasons For Restrictions, If Any:	MWe):				
	This Month	Yrto-Date	Cumulative		
11. Hours In Reporting Period	720.0	4,343.0	37,247.0		
12. Number Of Hours Reactor Was Critical	720.0	2,889.3	31,309.1		
13. Reactor Reserve Shutdown Hours	0.0	153.5	595.3		
14. Hours Generator On-Line	720.0	2,834.1	30,871.2		
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0		
16. Gross Thermal Energy Generated (MWH)	1,577,314	6,532,381	75,284,012		
7. Gross Electrical Energy Generated (MWH)	599,071	2,240,484	24,969,451		
8. Net Electrical Energy Generated (MWH)	572,632	2,128,638	23,798,612		
9. Unit Service Factor	100.0	65.3	82,9		
0. Unit Availability Factor	100.0	65.3	82.9		
11. Unit Capacity Factor (Using MDC Net)	96.4	59.4	78.3		
2. Unit Capacity Factor (Using DER Net)	94.1	58.0	75.6		
3. Unit Forced Outage Rate	0.0	6.2	5.4		
4. Shutdowns Scheduled Over Next 6 Months (Typ	e, Date, and Duration	of Each):			
 If Shut Down At End Of Report Period, Estimat Units In Test Status (Prior to Commercial Opera 		Forecast	Achieved		
INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION					

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-317

UNIT Calvert Cliffs No.1

DATE 7/15/81

COMPLETED BY Elaine Lotito

TELEPHONE (301) 787-5363

MONTH June, 1981

AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
172	17	820
826	18	778
851	19	655
851	20	674
852	21	815
821	22	629
856	23	633
857	24	625
854	25	276
852	. 26	658
845	27	733
846	28	798
729	29	777
-	30	494
	31	
527		

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 No.2

DATE 7/15/81

COMPLETED BY Elaine Lotito

TELEPHONE (301) 787-5363

MONTH June, 1981

AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
843	17	789
847	18	802
850	19	812
848	20	703
847	21	706
848	22	771
848	23	835
851	24	730
847	25	697
845	. 26	656
838	27	738
841	28	797
751	29	726
836	30	686
840	31	
832		STATE OF STREET

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

DOCKET NO. UNIT NAME DATE COMPLETED BY 50-317 Calvert Cliffs No.

TELEPHONE

_Elaine Lotito (301) 787-536

REPORT MONTH June, 1981

No.	Date	Type1	Duration (Hours)	Reason-	Method of Shutting Down Reactor3	Licensee Event Report #	System Code4	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
81-05	810530	S	7.0	В	5		СВ	PUMPXX	To repair oil leakage on No. 128 Reactor Coolant Pump Motor Oil Reservoir.
81-06	810601	F	6.5	В	5		CB	PUMPXX	Same as above.
81-07	810614	F	11.0	A	1				Reactor Coolant System Leakage
81-08	810614	F	40.6	A	9		CD	VALVEX	Reactor already shut down. No. 12 Main Steam Isolation Valve could not close within NRC time spec.
81-09	810622	F	16.5	A	4		XX	ZZZZZZ	Condenser Tube Leak
81-10	810625	F	42.3	A	4		XX	ZZZZZZ	Condenser Tube Leak
81-11	810630	F	5.4	A	3		XX	AIRDRY	Malfunction of Instrument air dryers.

F: Forced S: Scheduled

Reason:

A-Equipment Failure (Explain) B-Maintenance of Test

C-Refueling

D-Regulatory Restriction

E-Operator Training & License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Load Reduction

5-Continuation

9-Other

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

Exhibit 1 - Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH June, 1981

No.	Date	Type1	Duration (Hours)	Reason-	Method of Shutting Down Reactor3	Licensee Event Report #	System Code ⁴	Component Code 5	Cause & Corrective Action to Prevent Recurrence
									No Outages or Reductions

F: Forced S: Scheduled

A-Equipment Failure (Explain) B-Maintenance of 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 Scrain.

4-Other (Explain)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit I - Same Source

(9/77)

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.

 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

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.

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

August 21, 1982

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.

 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

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 - JUNE 1981

6/1	At the beginning of this reporting period Unit 1 was shutdown for
	repairs to the acoustic monitor and 12B RCP motor oil reservoir. The
	reactor was brought critical at 1055 and the unit paralleled at 1330.
	Load was increased to capacity (865 MWe) at 2359.
6/2	At 0800 load was reduced to 800 MWe to investigate saltwater
	leakage into the main condenser. Load was increased to 885 MWe at
	1420 when indications of saltwater leakage disappeared.
6/6	At 0335 Control Element Assembly (CEA) 21 dropped into the core.
	Reactor power was immediately reduced to less than 70% in
	accordance with the Technical Specifications. CEA 21 was withdrawn
	back to its group at 0445. Full load operation (870 MWe) was resumed
	at 1000.
6/13	At 0250 load was decreased to 705 MWe to clean condenser water
	boxes. Resumed full load operation (875 MWe) at 1900. Commenced
	reducing load at 2200 due to excessive Reactor Coolant System (RCS)
	leakage. The unit was taken off the line at 0137. The reactor was
	shutdown at 0140.
6/14	At 1240 the Reactor Coolant System leakage was repaired, but No. 12
	Main Steam Isolation Valve would not close within the NRC required
	time specification.
6/16	The reactor was brought critical at 0255 and the unit paralleled at
	0514. Load was increased to capacity (860 MWe) at 1500.
6/18	At 0100 load was decreased to 690 MWe to clean condenser water
	boxes. Resumed full load operation (860 MWe) at 0800.
6/19	At 0040 load was reduced to 700 MWe to investigate saltwater
	leakage into the main condenser. Load was reduced to 600 MWe at
	0505 due to increasing baywater temperature.
6/21	Load was increased to capacity (860 MWe) at 0100.

6/22	At 0500 load was reduced to 640 MWe to investigate saltwater
	leakage into the main condenser and for cleaning main condenser
	water boxed. Started increasing load and at 1900 load was limited t
	670 MWe due to a plant computer failure.
6/24	The computer was returned to servcice at 1700, however load was
	still limited to 670 MWe due to a broken inlet valve for 12A waterbo
	and for investigating saltwater leakage into the main condenser.
6/25	Decreased load to 300 MWe at 0300 due to multiple condenser tube
	leaks.
6/26	After plugging 4 condenser tubes resumed full load operation (845
	MWe) at 1930.
6/27	At 1000 load was decreased to 645 MWe to clean condenser water
	boxes. Load was increased to (850 MWe) at 2100.
6/28	At 2125 load was reduced to 710 MWe to investigate saltwater
	leakage into the main condenser.
6/29	Increased load to capacity (855 MWe) at 0900 after plugging 1
	condenser tube.
6/30	At 0753 the reactor tripped on low Steam Generator level due to a
	malfunction of the instrument air dryers. The reactor was brought
	critical at 0953 and the unit paralleled at 1320. At 1900, load was
	limited to 735 MWe to investigate saltwater leakage into the main
	condenser. Started increasing load at 2300 when indications of
	saltwater leakage disappeared. At the end of this reporting period,
	Unit I was operating at 770 MWe with the reacotr at 87% power,
	increasing to capacity.

SUMMARY OF UNIT 2 OPERATING EXPERIENCE - JUNE 1981

6/1	At the beginning of this reporting period Unit 2 was operating at 880
	MWe with the reactor at 100% power.
6/13	At 1030 load was reduced to 720 MWe to investigate saltwater
	leakage into the main condenser.
6/14	Load was increased to 885 MWe at 0500 when indications of saltwater
	leakage disappeared.
6/17	At 0205 load was decreased to 685 MWe to clean main condenser
	water boxes. Resumed full load operation (880 MWe) at 0800.
6/18	At 1930 load was reduced to 735 MWe to investigate saltwater
	leakage into the main condenser.
6/19	After plugging 1 condenser tube resumed full load operation (870
	MWe) at 0530.
6/20	Decreased load to 720 MWe at 0700 for maintenance on the Amertap
	System.
6/21	Load was increased to capacity (880 MWe) at 2300.
6/22	At 0500 load was reduced to 745 MWe to investigate saltwater
	leakage into the main condenser. Increased load to capacity (870
	MWe) at 1900 after plugging 1 condenser tube.
6/24	At 1000 load was reduced to 720 MWe to investigate saltwater
	leakage into the main condenser.
6/27	After plugging 3 condenser tubes resumed full load operation (865
	MWe) at 1800.
6/28	At 0210 load was reduced to 740 MWe to investigate saltwater
	leakage into the main condenser. Load was increased to 860 MWe at
	0900 when indications of saltwater leakage disappeared.

- 6/29 At 0715 load was reduced to 750 MWe to investigate saltwater leakage into the main condenser.
- 6/30 At the end of this reporting period, Unit 2 was operating at 695 MWe with the reactor at 88% power while investigating saltwater leakage into the main condenser.

UNIT	One One			_
GROUP	Instrument Maintenance			_
MONTH	July	YEAR	81	

		MALF	UNCTION	
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
Reactor Protection/ Cold Leg Temperature Detector 1-TE-122 CB	0-81-911 3/5/81	Temperature detector defective	Erratic readings	Replaced temperature detector
Salt water Cooling Emergency Overboard Discharge Valve 1-CV-5149	0-80-4991 12/2/80	Loose position indication actuation arm	valve not indicating full shut	Repaired actuation
Reactor Protection/ Channel 'D' #12 Steam Generator Pressure Signal Isolator 1-PY-1023D	IC-81-29 4/6/81	Faulty Signal Isolator	Channel 'D' Pressure Signal for #12 Steam Generator spiked.	Replaced 1-PY-1023D

UNIT	One			
GROUP	Instrument Maintenance			
MONTH	July	YEAR	81	

	MALFUNCTION			
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
Reactor Protection/ Channel "C" Axial Power Drawer	0-81-1191 3/16/81	Channel "C" Ex-core Axial shape index calculator out of toler- ance.	Above normal deviation between Ex-core and In-core Axial shape index calculations.	Re-calibrated Channel "C" Index calculator
Engineered Safety Features/High Containment Pressure Bistable Channel ZG CIS	0-81-1302 3/21/81	Defective Containment Isolation Signal (CIS) Bistable Meter	Above normal voltage indication	Replaced CIS Bistable
Engineered Safety Features/Containment Spray Actuation Channel "ZG" Bistable	0-81-1429 3/30/81	Defective Bistable Modul	e Above normal voltage deviation from other channels	Replaced Bistable module

UNIT_	2			_
GROUP _	Instrument Maintenance			
MONTH	July	YEAR	81	

	MALFUNCTION			
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
Chemical and Volume Control System/ Isolation Control Solenoid Valve 2-SV-515	0-81-868 3-2-81	Solenoid valve plunger sticking	Pneumatic Control Valve would not open	Re-built solenoid valve with kit
Primary Containment Sump Level Switch 2-LS-5463	0-81-707 2-22-81	Dirty and sticking level switch	Highlevel alarm with sump empty	Cleaned sump & leve switch
Primary Containment Cooler #21 Emergency Outlet Valve 2-CV-1582	0-81-388 1-23-81	Defective position switch	No open indication on panel in control room	Replaced position switch

UNIT_	2		
GROUP _	Instrument Maintenance		
MONTH	July	YEAR	81

MALFUNCTION			
MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
0-80-668 2/28/80	Level Transmitter Zero adjustment link disengaged	Level oscillates continuously	Removed transmitter mechanically and electrically cali- brated and re-installed.
IC-81-2015 1/29/81	Pressure transmitter out of tolerance	Pressure indication high	Re-calibrated pressure trans-mitter.
0-81-197 1,'14/81	Pressure Transmitter out of tolerance	Pressure indication high	Re-calibrated pressure trans-mitter.
0-81-721 2/25/81	Broken open limit switch	No "Open" indication at control panel	Replaced open limit switch
	0-80-668 2/28/80 IC-81-2015 1/29/81 0-81-197 1,'14/81	O-80-668 2/28/80 IC-81-2015 1/29/81 O-81-197 1/14/81 Pressure transmitter out of tolerance Pressure Transmitter out of tolerance	O-80-668 2/28/80 Level Transmitter Zero adjustment link disengaged IC-81-2015 1/29/81 Pressure transmitter out of tolerance Pressure indication high O-81-197 1/14/81 Pressure Transmitter out of tolerance Pressure indication high

UNIT _	2			
GROUP _	Electrical Maintenance			
MONTH	July	YEAR	81	

		MALFUNCTION		1	
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULY	CORRECTIVE ACTION	
Vital Instrumentation AC Electrical Power/ #21 Inverter	E-81-37 2-1-81	Overheated, cracked resistor	None - Found during Preventive Maintenance	Replaced Broken Logic Resistor	
Primary Containment Sump Drain Valve 2-MOV-5462	0-81-394 1-23-81	Overheated motor windings due to close limit switch out of adjustment.	Breaker for MOV trips on overcurrent	Replaced motor Reset limit switch	
125 Volt DC Electrical Power #21 DC Bus	0-81-265 1-17-81	Light Socket on #12 Battery Charger breaker shorted	Negative Ground on #21 DC Bus	Repaired short on Light Socket.	