OPERATING DATA REPORT

OPERATING STATUS	DOCKET NO. <u>50-317</u> DATE <u>2/15/79</u> COMPLETED BY <u>5. D. Mersor</u> TELEPHONE <u>301-234-5240</u>
1. Unit Name: Calvert Cliffs No. 1 2. Reporting Period: January, 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	Notes
 Maximum Dependable Capacity (Net MWe): 010 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): <u>None</u> 0. Reasons For Restrictions, If Any: <u>N/A</u>	

	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period	744	744	32,749
12. Number Of Hours Reactor Was Critical	325.5	325.5	26,414.1
13. Reactor Reserve Shutdown Hours	122.7	122.7	1,016.3
14. Hours Generator On-Line	308.8	308.8	25,853.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	690,130	690,130	61,960,334.4
17. Gross Electrical Energy Generated (MWH)	216,728	216,728	20,603,063
18. Net Electrical Energy Generated (MWH)	203,174	203,174	19,658,162
19. Unit Service Factor	41.5	41.5	78.9
20. Unit Availability Factor	41.5	41.5	78.9
	33.7	33.7	74.1
21. Unit Capacity Factor (Using MDC Net)	32.3	32.3	71.0
 Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate 	58.5	58.5	9.0

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

Calvert Cliffs	No. 1	is s	scheduled	for	a planned	d outage	startin	g April	14, 1979,
and will be six	week!	's ir	duration	for	general	inspect	ion and	refuelin	ig.

25. If Shu	at Down At End Of Report Period, Estimated Date of Sta	irtup:	
	In Yest Status (Prior to Commercial Operation):	Forecast	Achieved
	INITIAL CRITICALITY		10 <u>11 11 11 11 11 11 11 11 11 11 11 11 11</u>
	INITIAL ELECTRICITY		
	COMMERCIAL OPERATION	790227029	1

OPERATING DATA REPORT

50-318 DOCKET NO. DATE 2/15 COMPLETED BY Merson -5240 TELEPHONE 30

OPERATING STATUS

1. Unit Name: Calvert Cliffs No. 2	Notes
2. Reporting Period:January, 1979	물이 아파들이 가지 않는 것이 없다.
3. Licensed Thermal Power (MWt):	
4. Nameplate Rating (Gross MWe):911	
5. Design Electrical Rating (Net MWe): 845	
6. Maximum Dependable Capacity (Gross MWe):	
7. Maximum Dependable Capacity (Net MWe): 810	

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

None 9. Power Level To Which Restricted, If Any (Net MWe). N/A

10. Reasons For Restrictions, If Any: _____

	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period	744	7144	16,104
12. Number Of Hours Reactor Was Critical	554.1	554.1	13,546.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	219.4
14. Hours Generator On-Line	529.9	529.9	13.341.7
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,307,688	1,307,688	32,191,704.6
17. Gross Electrical Energy Generated (MWH	441,924	441,924	10,695,996
18. Net Electrical Energy Generated (MWH)	420,021	420,023	10,188,050
19. Unit Service Factor	71.2	71.2	82.8
20. Unit Availability Factor	71.2	71.2	82.8
21. Unit capacity Factor (Using MDC Net)	69.7	69.7	78.1
22. Unit Capacity Factor (Using DER Net)	66.8	66.8	74.9
23. Unit Forced Outage Rate	8.1	8.1	6.0
as. one roreed outlige reare			

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. <u>50-317</u> UNIT <u>Calvert Clif</u>fs #1 DATE <u>2/15/79</u> COMPLETED BY <u>S. D. Merson</u> TELEPHONE <u>301-234-5240</u>

AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
	17	
	18	
	19	321
	20	727
	21	699
	22	380
	23	356
-	24	578
·····	25	
	26	797
	27	797
	28	714
-	29	803
	30	805
	31	807

INSTRUCTIONS

Are distants

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. <u>50-318</u> UNIT Calvert Cliffs #2 DATE <u>2/15/79</u> COMPLETED BY <u>S. D. Merson</u> TELEPHONE <u>301-234-5240</u>

MONT	TH January, 1979	
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY
1	850	17
2	851	18
3	851	19
4	851	20
5	851	21
6	403	22
7	267	23
8	716	24
9	749	25
10	766	26
11	771	27
12	783	28
13	804	29
14	805	30
15	801	31
16	790	51
	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.	

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	806
18	804
19	806
20	33
21	
22	
23	
24	2000 - 2000 - 2000
25	
26	
27	-
28	680
29	835
	839
30	
31	849

INSTRUCTIONS

Av. Later a

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 N. 50-317 UNIT NAME Calvert Cliffs #1 DATE 2/15/79 COMPLETED BY S. D. Merson TELEPHONE 301-234-5240

REPORT MONTH January, 1979

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor 3	Licensee Event Report #	System Code ⁴	Component Code5	Cause & Corrective Action to Prevent Recurrence
78-19	781217 790122	F	430.5	A H	3	N/A N/A	HA	7.2.2222 2222222	Forced outage due to vibration on the high-pressure turbine. Internal investigation revealed damage to the first stage high-pressure turbine blades. Forced outage due to a unit trip caused by high water level in #12B feed water heater.
1 F: Fc S: Sc (9/77)	orced heduled	B-Ma C-Re D-Ro E-Op F-Ao G-O	quipment Fa aintenance o efueling egulatory Re	r Test estrictio ting & I trot (E)	n Licrose Exan	nination	3-Auto		4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG- 0161) 5 Fxhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

50-318 Calvert Cliffs #2 DOCKET NO. _ UNIT NAME ____ COMPLETED BY S. D. Merson

TELEPHONE 301-234-5240

REPORT MONTH _ January, 1979

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor3	Licensee Event Report #	System 5.4.4	Comment	Code5	Cause & Corrective Action to Prevent Recurrence
79-1	790106	F	22.6	A	1	79-001	CB	PI	PEXX	Forced outage due to excessive reactor coolant system leakage caused by a cracked weld on #21A reactor coolant pump middle seal pressure sensing line
72-2	790120	F	24.0	A	2	79-003	CE	P	PEXX	Forced outage due to high temperature on the lower seal of #22A reactor coolant pump. Inspection revealed a cracked weld on the lower seal press- ure sensing line of #22A reactor coolant pump.
79-3	790121	s	167.5	В	4	N/A	Z2	: Z2	22222	Status changed from forced to st aduled to perform safety related testing and to replace the seals on #21B and 22A reactor coolant pumps.
1		2					3	<u> </u>		4
F: Fo S: Scl	rced heduled	B-M C-R D-R	quipment F aintenance efueling egulatory R	or Test		mination	1-N 2-N 3-A	thod: lanual lanual Sc utomation ther (Ex	c Scram	0161)
(9/77)		F-A G-O	dministrativ perational H ther (Expla	e Error (E						5 Exhibit I - Same Source

REFUELING INFORMATION REQUEST

1. Name of Facility

Calvert Cliffs Nuclear Power Plant, Unit No. 1

2. Scheduled date for next Refueling Shutdown

April 21, 1979 **

3. Scheduled date for restart following refueling

May 29, 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

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) 228*

* 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

** Information has changed since last monthly report.

REFUELING INFORMATION REQUEST

1. Name of Facility

Calvert Cliffs Nuclear Power Plant, Unit No. 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.

July 6, 1979

6. Important licensing considerations associated with refueling

Reload fuel will be similar to that reload fuel inserted into the Cycle 3 of Unit 1.

- 7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
 - (a) 217
 - (b) 228*

* 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

JANUARY 1979

- 1/1 At the beginning of this reporting period, Unit 1 was shutdown and the reactor cooled down for removal of damaged main turbine first stage high pressure turbine blades.
- 1/17 Reactor coolant system heatup commenced at 0205.
- 1/18 The reactor was brought critical at 0850 and the unit was paralleled at 2144.
- 1/19 The main turbine was taken off line at 0244 to conduct a turbine overspeed trip test. The unit was reparalleled at 0327.
- 1/20 Load was increased to 830 MWe.
- 1/21 Load was reduced to 735 MWe at 0005 due to a steam leak on the high pressure turbine casing.
- 1/22 At 0957 the reactor tripped on loss of load when the main turbine tripped due to a high water level in 12B feed water heater. The reactor was brought critical at 1136 and the unit paralleled 1139. Load was limited to 258 MWe due to steam leakage from main turbine high pressure casing.
- 1/23 Load was increased to 660 MWe at 1800 after reducing the steam leak.
- 1/24 Load was reduced to 400 MWe at 1400 to accommodate repairs to the main turbine high pressure casing.
- 1/25 Load was increased to 830 MWe at 1600 after completing temporary repairs to the main turbine high pressure casing. Reactor power was limited to 35% by the Environmental Technical Specification 10°F limit on main condenser circulating water ΔT.
- 1/28 Load was decreased to 700 MWe at 0305 to investigate salt water leakage into the main condenser.
- 1/29 Load was increased to 850 Mile at 0030 after the salt water leak disappeared.
- 1/31 At the end of this reporting period, Unit 1 was operating at 843 MWe with the reactor at 97% power, reactor power being limited by the Environmental Technical Specification 10°F limit on main condenser circulating water ΔT.

SUMMARY OF UNIT 2 OPERATING EXPERIENCE

JANUARY 1979

- 1/1 At the beginning of this reporting period, Unit 2 was operating at 887 MWe with the reactor at 100% power.
- 1/6 The unit was taken off line at 1342 to locate the source of reactor coolant system leakage in excess of Technical Specification limits. The reactor was maintained critical. The source of the reactor coolant system leakage was determined to be a cracked weld on 21A reactor coolant pump middle seal pressure sensing line. The cracked weld was isolated at 1448.
- 1/7 While starting up the main turbine it was discovered that main turbine governor valve #4 was binding and would not stroke properly. After failing to correct the binding problem it was decided to place the unit back in service with governor valve #4 shut. The unit was paralleled at 1218.
- 1/8 Load was increased to 775 MWe.
- 1/12 Load was increased to 837 MMe.
- 1/20 The reactor was manually tripped at 0143 due to a high temperature alarm on 22A reactor coolant pump lower seal. Cool down of the reactor coolant system to repl ce 22A reactor coolant pump seal commenced at 2015.
- 1/26 Reactor coolant system heatup commenced at 1349.
- 1/27 The reactor was brought critical at 2340.
- 1/28 The unit was paralleled at 0115 and began increasing load to 868 MWe.
- 1/30 Increased load to 885 MWe.
- 1/31 At the end of the reporting period Unit 2 was operating at 894 MWe with the reactor at 100% power.

Page 1 of 2

SAFETY-RELATED MAINTENANCE

UNIT	1			
GROUP	MECHANICAL			
MONTH	JANUARY	YEAR	1979	

CONTRACTOR STREET		MALFUNG		
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
12 Switchgear Room A/C Compressor	0-77-2131 5/14/78	Malfunctioning solenoid valve 1-SV-5427	Compressor shut down on low suction pressure	Replaced defective solenoid
12 Charging Pump	0-78-3131 10/7/78	Normal end of life (packing)	Secondary packing leak	Replaced packing and plungers
12 Charging Pump	0-78-3276 10/19/78	Normal end of life (packing)	Primary packing leak	Replaced packing and plungers
12 Charging Pump	0-78-3016 9/24/78	Broken seal water line	Loss of seal water level	Repacked pump and replaced seal water line
11 MSIV Hydraulic Package - H.P. Oil Pump	0-78-3251 10/17/78	Discharge relief valve lifting at 2900 psi.	Pump discharge pressure only reached 2900 psi	Rebuilt discharge relief valve

Page 2 of 2

UNIT 1

GROUP MECHANICAL (CONT'D)

MONTH JANUARY YEAR 1979

		MALFUNCTION		
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
1-RV-150 12 Boric Acid Storage Tank Recirc Relief	0-78-1791 6/1/78	Boric acid had corroded the valve severely	Valve body/bonnet leakage	Replaced with a new valve
		12.2	L. Source and	

Page 1 of 3

UNIT	2		
GROUP	MECHANICAL		
MONTH	JANUARY	YEAR	1979

		MALFUNG		
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION
21B Reactor Coolant Pump	M-78-3167 7/5/78	Vibration fatigue	Cracked weld on seal pressure sensing line	Performed weld repairs
21 Charging Pump Suction Line	0-78-303 1/23/78	Vibration fatigue	Cracked weld on suction relief valve piping	Performed weld repairs
21 Charging Pump Desurger	0-78-3367 10/24/78	Failed Bladder	Bladder would not maintain charge	Replace bladder and associated O-rings
21 Charging Pump	0-78-4091 12/11/78	Stuffing box wear	Primary packing leak	Replaced stuffing box and packing
23 Charging Pump Desurger	0-78-3833 11/16/78	Broken charging fitting	Could not recharge bladder	Installed bladder with redesigned fitting.

Page 2 of 3

SAFETY-RELATED MAINTENANCE

UNIT	2	
GROUP	MECHANICAL	(CONT'D)

MONTH JANUARY YEAR 1979

		MALFU			
SYSTEM OR COMPONENT	MR NO DATE	CAUSE	RESULT	CORRECTIVE ACTION	
Unit II Containment Emergency Air-Lock	2-IC-78-159 10/20/78	Worn teflon seats	Equalizing ball valve leaking by	Replaced valve seals	
22 Charging Pump Suction Header	0-78-2062 6/25/78	Vibration fatigue	Weld failure on Y section of suction piping	Performed weld repairs	
Unit II Containment Personnel Hatch	M-78-2451 10/6/78	Sheared cam follower	Door would not open correctly	Replaced cam follower	
22 Charging Pump	0-78-4039 12/6/78	End of natural life (Packing)	Primary packing leak	Repacked pump	
21 Charging Pump	0-78-4038 12/6/78	End of natural life (Packing)	Primary packing leak	Repacked pump and replaced one scored plunger.	

	•	(0,	YEAR 1979		CORRECTIVE ACTION	Vendor replaced section of line and recharged system	
	UNIT 2	GROUP MECHANICAL (CONT'D)	MONTH JANUARY	NOIL	RESULT	Freon leak	
SAFETY-RELATED MAINTENANCE				MALFUNCTION	CAUSE	Hole in compressor equalizing line	
01	•				MR NO DATE	0-78-1698 5/24/78	
					SYSTEM OR COMPONENT	21 Switchgear A/C Unit Compressor	

Page 3 of 3

		YEAR 1979		CORRECTIVE ACTION	Replaced solenoid valve coil.	Repaired leads on 1-SV-4485 and 1-LS-9800
UNIT 182	GROUP ELECTRICAL	MONTH JANUARY		RESULT	#12 High Pressure Pump wouldn't start	Positive ground on Bus 21
MANNETHING ANTHON I TO JUN	0	4	MALFUNCTION	CAUSE	1-SV-9126 coil grounded causing control fuse to blow	Solv. valve 1-SV-4485 coil lead chaffed and grounded/ Level switch #1-LS-9800 leads grounded
נ				NO DATE	194 12/20/78	273 12/30/78
				MR NO.	0-78-4194	0-78-4273
				SYSTEM OR COMPONENT	#11 Main Steam Isolation Valve Hydrualic Unit/ #12 High Pressure Pump Unloader Valve 1-SV-9626	Bus #21 DC (125 Volt Vital)

UNIT .	182		-
GROUP	1&C		
MONTH	JANUARY	YEAR 1979	

			MALFU		
SYSTEM OR COMPONENT	MR NO.	- DATE	CAUSE	RESULT	CORRECTIVE ACTION
Safety Injection System, Refueling Water Tank Level Current Relay 2-LY-4142	0-78-2237	7/11/78	2-LY-4142 defective	Oscillating current signal, spurious alarms at 2008	Replaced 2-LY-4142
#21 Pressurizer Pres- sure Voltage Relay 2-E/E 102C	0-78-3909	11/24/78	2-E/E 102C defective	ESFAS channel ZF pres- surizer pressure signal low	Replaced 2-E/E 102C
#21 Steam Generator Pressure Voltage Relay 2-E/E 1013A	0-78-3811	11/13/78	2-E/E-1013A defective	ESFAS channel ZD generator pressure signal low	Replaced 2-E/E-1013A