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R. E. DENTON  
GENERAL MANAGER  
CALVERT CLIFFS

December 12, 1990

U.S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 & 2; Dockets 50-317 and 50-318  
November 1990 Operating Data Reports

Gentlemen:

The subject reports are being sent to you as required by Technical Specification 6.9.1.6.

Should you have any further questions regarding this matter, please contact Bruce Mrowca at (301) 260-3989.

Very truly yours,

RED/LBS/reu

Attachments

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U. S. Nuclear Regulatory Commission

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 UNIT 1

OPERATING DATA REPORT

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Docket No. 50-317  
 December 12, 1990  
 Prepared by Leo Shanley  
 Telephone:(301)260-6744

OPERATING STATUS  
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1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	NOVEMBER 1990
3. LICENSED THERMAL POWER (MWT)	2700
4. NAMEPLATE RATING (GROSS MWe)	918
5. DESIGN ELECTRICAL RATING (NET MWe)	845
6. MAXIMUM DEPENDABLE CAP'Y (GROSS MWe)	860
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	825
8. CHANGE IN CAPACITY RATINGS	none
9. POWER LEVEL TO WHICH RESTRICTED	n/a
10. REASONS FOR RESTRICTIONS	n/a

	This month	Year-to-Date	Cumulative to Date
	-----		
11. HOURS IN REPORTING PERIOD	720	8,016	136,453
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	1,652.8	96,245.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	720.0	1,580.6	94,029.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,924,255	3,671,899	236,363,149
17. GROSS ELECTRICAL ENERGY GEN'TED(MWH)	639,206	1,190,782	78,609,905
18. NET ELECTRICAL ENERGY GENERATED(MWH)	614,137	1,133,596	74,679,406
19. UNIT SERVICE FACTOR	100.0	19.7	68.9
20. UNIT AVAILABILITY FACTOR	100.0	19.7	68.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	103.4	17.1	66.3
22. UNIT CAPACITY FACTOR (USING DER NET)	100.9	16.7	64.8
23. UNIT FORCED OUTAGE RATE	0.0	2.1	9.4
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):			
		Maintenance/Test: December 1, 1990 for 14 days	
		Maintenance/Test: March 9, 1991 for 44 days	
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP:			
		N/A	

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317UNIT NAME Calvert Cliffs-U1DATE December 12, 1990COMPLETED BY Leo ShanleyTELEPHONE (301)260-6744REPORT MONTH November 1990

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
90-14	901130	S	0.0	B	4	N/A			Power reduction in preparation for shutdown to: 1) Investigate and repair nitrogen leaks from Safety Injection Tanks 2) Investigate and repair oil leaks on 12B RCP

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> 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)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

<sup>4</sup> Exhibit G-Instructions for Preparation of Data Entry Sheets for License Event Report (LER) File (NUREG-0161)

<sup>5</sup> Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
 Calvert Cliffs Unit No. 1  
 December 12, 1990  
 Completed by Leo Shanley  
 Telephone: (301) 260-6744

NOVEMBER 1990

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Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	858	17	795
2	858	18	863
3	859	19	863
4	859	20	862
5	859	21	862
6	859	22	862
7	860	23	863
8	859	24	863
9	860	25	863
10	816	26	862
11	766	27	863
12	855	28	863
13	862	29	863
14	863	30	827
15	863		
16	862		

DOCKET # 50-317  
CALVERT CLIFFS - UNIT 1  
December 12, 1990

SUMMARY OF OPERATING EXPERIENCE

November 1990

The unit began the month at 100% power (850 MWe).

Power was reduced to 90% from 1408, 10 November until 0350, 12 November for Main Condenser Waterbox cleaning and Main Turbine Control Valve testing.

Power was reduced to 91% from 0345 to 2350 on 17 November to roll tubes in 11B Main Conder: : Waterbox.

During the month, there were indications of nitrogen leaks from 11B and 12B Safety Injection Tanks (SIT). Several unsuccessful attempts were made to locate and isolate the leaks.

At 2015 on 30 November, power reduction was commenced in preparation for a maintenance outage to safely investigate and repair the nitrogen leaks and add oil to 12B Reactor Coolant Pump. The outage is expected to last for approximately two weeks.

The unit ended the month at 43% power (320 MWe).

December 6, 1990

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: March 6, 1992
3. Scheduled date for restart following refueling: May 17, 1992
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 anticipated changes will effect consistency between the tentatively approved Unit 2 Cycle 9 Tech Specs and the Tech Specs for Unit 1 Cycle 11.

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

August 1, 1991 ( reload submittal )

6. Important licensing considerations associated with the refueling.

None identified at this time.

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

(a) 217 (b) 1326 \*

Spent fuel pools are common to Units 1 and 2.

8. (a) The present licensed spent fuel pool storage capacity, and (b) the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.

(a) 1830 (b) 2880

9. The projected date of the last refueling that can be discharged to the Spent Fuel Pool assuming the present licensed capacity and maintaining space for one full core off-load.

March 1994.

\* ENTRY HAS CHANGED SINCE LAST REPORTED.

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 UNIT 2

OPERATING DATA REPORT

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Docket No. 50-318  
 December 12, 1990  
 Prepared by Leo Shanley  
 Telephone:(301)260-6744

OPERATING STATUS  
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1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	NOVEMBER 1990
3. LICENSED THERMAL POWER (MWT)	2700
4. NAMEPLATE RATING (GROSS MWe)	918
5. DESIGN ELECTRICAL RATING (NET MWe)	845
6. MAXIMUM DEPENDABLE CAP'Y (GROSS MWe)	860
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	825
8. CHANGE IN CAPACITY RATINGS	none
9. POWER LEVEL TO WHICH RESTRICTED	n/a
10. REASONS FOR RESTRICTIONS	n/a

	This month	Year-to-Date	Cumulative to Date
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11. HOURS IN REPORTING PERIOD	720	8,016	119,808
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	0.0	87,437.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	0.0	0.0	86,228.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0	0	218,389,418
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	0	0	72,284,632
18. NET ELECTRICAL ENERGY GENERATED (MWH)	0	0	69,042,571
19. UNIT SERVICE FACTOR	0.0	0.0	72.0
20. UNIT AVAILABILITY FACTOR	0.0	0.0	72.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	69.9
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	68.2
23. UNIT FORCED OUTAGE RATE	0.0	0.0	5.3
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):	N/A		
25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP:	January 20, 1991		



## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318UNIT NAME Calvert Cliffs-U2DATE December 12, 1990COMPLETED BY Leo ShanleyTELEPHONE (301)260-6744REPORT MONTH November 1990

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
90-11	901101	S	720	C	N/A	N/A			Continued shutdown for 8th Cycle Refueling Outage.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> 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)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

<sup>4</sup> Exhibit G-Instructions  
for Preparation of Data  
Entry Sheets for License  
Event Report (LER) File  
(NUREG-0161)

<sup>5</sup> Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-318  
 Calvert Cliffs Unit No. 2  
 December 12, 1990  
 Completed by Leo Shanley  
 Telephone: (301) 260-6744

NOVEMBER 1990  
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Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0		
16	0		

DOCKET # 50-318  
CALVERT CLIFFS - UNIT 2  
December 12, 1990

SUMMARY OF OPERATING EXPERIENCE

November 1990

The unit began the month in a continued shutdown for the 8th Cycle Refueling Outage.

Work continued on the Salt Water System.

Refueling was commenced at 1923 on 20 November. Core load was completed on 28 November and the Upper Guide Structure was installed in the pressure vessel on 30 November.

The unit is scheduled to return to service on January 20, 1991.

December 6, 1990

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2.
2. Scheduled date for next refueling shutdown: March 20, 1989 \*\*
3. Scheduled date for restart following refueling: January 20, 1991. \*
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Unit reload license and necessary technical specification changes are approved. The Unit is in an extended refueling shutdown to support system maintenance.

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

Unit reload license has been approved. The Unit is in an extended refueling shutdown to support system maintenance.

6. Important licensing considerations associated with the refueling.

Reload fuel will be similar to reload fuel inserted into the previous cycle except for the 4.3% enrichment, debris resistant fuel design, and four fuel assemblies containing an alternative burnable absorber. Changes will be made to the on line incore monitoring program.

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

(a) 217                      (b) 1326 \*

Spent fuel pools are common to Units 1 and 2.

8. (a) The present licensed spent fuel pool storage capacity, and (b) the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.

(a) 1830                      (b) 2880

9. The projected date of the last refueling that can be discharged to the Spent Fuel Pool assuming the present licensed capacity and maintaining space for one full core off-load.

March 1994.

\*\* UNIT CURRENTLY IN REFUELING SHUT DOWN

\* ENTRY HAS CHANGED SINCE LAST REPORTED