

PETER E. KATZ
Plant General Manager
Calvert Cliffs Nuclear Power Plant

Baltimore Gas and Electric Company
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, Maryland 20657
410 495-4101



March 15, 1996

U. S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318
February 1996 Operating Data Reports

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

Should you have any questions, please contact Mr. Bruce Mrowca at (410) 495-3989.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Peter E. Katz", is written over a light-colored background.

PEK/HOO/bjd

Attachments

cc: D. A. Brune, Esquire
J. E. Silberg, Esquire
L. B. Marsh, NRC
D. G. McDonald, Jr., NRC
T. T. Martin, NRC
Resident Inspector, NRC

R. A. Hartfield, NRC
R. I. McLean, DNR
J. H. Walter, PSC
P. Lewis, INPO
K. N. Larson, ANI

210034

9603210191 960229
PDR ADOCK 05000317
R PDR

IEDA
11

UNIT 1

OPERATING DATA REPORT

Docket No. 50-317

March 15, 1996

Prepared by Herman O. Olsen

Telephone: (410) 495-6734

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	FEBRUARY 1996
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)	865
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	835
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	696	1,440	182,461
12. NUMBER OF HOURS REACTOR WAS CRITICAL	696.0	1,440.0	132,866.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	696.0	1,440.0	130,163.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,792,373	3,794,250	331,296,254
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	601,056	1,268,263	109,979,963
18. NET ELECTRICAL ENERGY GENERATED (MWH)	576,449	1,217,389	104,741,882
19. UNIT SERVICE FACTOR	100.0	100.0	71.3
20. UNIT AVAILABILITY FACTOR	100.0	100.0	71.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.2	101.2	69.5
22. UNIT CAPACITY FACTOR (USING DER NET)	98.0	100.0	67.9
23. UNIT FORCED OUTAGE RATE	0.0	0.0	8.2

24. SHUTDOWNS SCHEDULED OVER THE NEXT
SIX MONTHS (TYPE, DATE AND DURATION):
Refueling 03/29/96 54 days

25. IF SHUTDOWN AT END OF REPORT PERIOD,
ESTIMATED DATE OF START-UP:
N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317
 UNIT NAME Calvert Cliffs-U1
 DATE March 15, 1996
 COMPLETED BY Herman O. Olsen
 TELEPHONE (410) 495-6734

REPORT MONTH February 1996

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
96001	021096	S	51.8	B	5	N/A	TJ	STR	On 02/10/96 at 2200 a scheduled reduction in power was commenced. Power was lowered to 30% at 1800 02/11/96 to support replacing the Main Generator stator liquid cooling strainer. The strainer was replaced and power was restored to 100% at 0145 on 02/13/96.

¹ F: Forced
S: Scheduled

² Reason:
 A - Equipment Failure
 B - Maintenance or Test
 C - Refueling
 D - Regulatory Restriction
 E - Operator Training & License Examination
 F - Administrative
 G - Operational Error
 H - Other

³ Method:
 1 - Manual
 2 - Manual Scram.
 3 - Automatic Scram.
 4 - Continued
 5 - Reduced Load
 9 - Other

⁴ IEEE Standard 805-1984

⁵ IEEE Standard 803A-1983

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-317
Calvert Cliffs Unit No. 1
March 15, 1996
Prepared by Herman O. Olsen
Telephone: (410) 495-6734

FEBRUARY 1996

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	859	17	856
2	859	18	856
3	858	19	856
4	858	20	856
5	858	21	857
6	858	22	857
7	858	23	857
8	857	24	858
9	858	25	857
10	850	26	857
11	242	27	857
12	652	28	857
13	850	29	857
14	855		
15	856		
16	856		

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: March 29, 1996
3. Scheduled date for restart following refueling: May 12, 1996
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Yes.

- a. License amendment to allow installation of a new diesel generator.
 - b. License amendment to reflect the new electrical distribution system configuration.
 - c. An amendment and exemption to allow the use of four lead fuel assemblies with advanced cladding materials.
 - d. License amendment to extend some instrument surveillances to allow a delayed start of the refueling outage.
 - e. License amendment to extend the requirement to do an ILRT so that the test does not have to be performed this outage.
 - f. License amendment to modify the MTC limits to account for additional steam generator tubes plugged.
 - g. License amendment which would allow the sleeving of steam generator tubes as a repair method.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
 - a. October 2, 1995
 - b. November 1, 1995
 - c. July 13, 1995
 - d. October 20, 1995
 - e. January 16, 1996
 - f. March 1996
 - g. November 30, 1995
 6. Important licensing considerations associated with the refueling.

Physical modifications required to bring Calvert Cliffs in compliance with the Station Blackout rule will be completed in the 1996 Unit 1 refueling outage.

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

(a) 217

(b) 1434 (Note 2)*

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) 4710 (Note 1)

(b) 0

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 2007

NOTE 1: 4710 total licensed site storage capacity.
(1830 pool + 2880 ISFSI)

NOTE 2: 240 Spent Fuel Assemblies in the ISFSI.

* There are 88 Batch 1R new fuel assemblies on site. They will be stored in the Unit 1 Spent Fuel Pool prior to refueling.

DOCKET NO. 50-317
CALVERT CLIFFS - UNIT 1
March 15, 1996

SUMMARY OF OPERATING EXPERIENCE

February 1996

The unit began the month at 100% power (860 MWe).

Power was reduced to 30% at 1800 on 02/12/96 to allow scheduled maintenance to be performed on the Main Generator stator liquid cooling system strainer. The strainer element was replaced and power was restored to 100% at 0145 on 02/13/96.

The unit continued to operate at 100% power (860 MWe) for the remainder of the month.

UNIT 2

OPERATING DATA REPORT

Docket No. 50-318
March 15, 1996
Prepared by Herman O. Olsen
Telephone: (410) 495-6734

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	FEBRUARY 1996
3. LICENSED THERMAL POWER (MWT)	2700
4. NAMEPLATE RATING (GROSS MWe)	911
5. DESIGN ELECTRICAL RATING (NET MWe)	845
6. MAXIMUM DEPENDABLE CAP'Y (GROSS MWe)	870
7. MAXIMUM DEPENDABLE CAP'Y (NET MWe)	840
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	696	1,440	165,816
12. NUMBER OF HOURS REACTOR WAS CRITICAL	617.1	1,361.1	122,603.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	617.1	1,361.1	120,934.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,712,608	3,715,475	310,045,686
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	574,835	1,239,563	102,429,091
18. NET ELECTRICAL ENERGY GENERATED (MWH)	550,481	1,189,179	97,918,623
19. UNIT SERVICE FACTOR	88.7	94.5	72.9
20. UNIT AVAILABILITY FACTOR	88.7	94.5	72.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	94.2	98.3	71.4
22. UNIT CAPACITY FACTOR (USING DER NET)	93.6	97.7	69.9
23. UNIT FORCED OUTAGE RATE	11.3	5.5	5.5
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:	03/03/96		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs-U2
 DATE March 15, 1996
 COMPLETED BY Herman O. Olsen
 TELEPHONE (410) 495-6734

REPORT MONTH February 1996

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
96001	022796	F	54.9	G	3	318/96-001	N/A	N/A	The unit tripped on 02/27/96 at 1708 due to a partial loss of off site power. A switch yard relay malfunction that occurred earlier in the day, resulted in two switchyard breakers opening. These breakers being open did not adversely impact the plant, however during troubleshooting, additional switchyard breakers were opened which disconnected the unit from the 500 KV electrical transmission system. The unit automatically tripped, all related safety systems functioned as required. Power to all plant service busses was restored at 2015. A leak was discovered on the surface blow down line for 21 Steam Generator. Plant cooldown was initiated to facilitate the required repairs. Interim compensatory actions have been put in place that will require future switchyard troubleshooting to be performed in accordance with plant procedures and require plant formal concurrence. The plant was placed in cold shutdown on 02/29/96 at 1430 and was shutdown for the remainder of the month.

¹ F: Forced
 S: Scheduled

² Reason:
 A - Equipment Failure
 B - Maintenance or Test
 C - Refueling
 D - Regulatory Restriction
 E - Operator Training & License Examination
 F - Administrative
 G - Operational Error
 H - Other

³ Method:
 1 - Manual
 2 - Manual Scram.
 3 - Automatic Scram.
 4 - Continued
 5 - Reduced Load
 9 - Other

⁴ IEEE Standard 805-1984

⁵ IEEE Standard 803A-1983

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2
2. Scheduled date for next refueling shutdown: March 14, 1997
3. Scheduled date for restart following refueling: April 23, 1997
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

No.

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

None.

6. Important licensing considerations associated with the refueling.

None.

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

(a) 217

(b) 1434 (Note 2)

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) 4710 (Note 1)

(b) 0

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 2007

NOTE 1: 4710 total licensed site storage capacity.
(1830 pool + 2880 ISFSI)

NOTE 2: 240 Spent Fuel Assemblies in the ISFSI.

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-318
Calvert Cliffs Unit No. 2
March 15, 1996
Prepared by Herman O. Olsen
Telephone: (410) 495-6734

FEBRUARY 1996

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	857	17	858
2	859	18	858
3	859	19	858
4	859	20	859
5	858	21	861
6	859	22	861
7	859	23	861
8	859	24	861
9	860	25	860
10	860	26	859
11	859	27	614
12	858	28	-26
13	858	29	-17
14	858		
15	858		
16	858		

DOCKET NO. 50-318
CALVERT CLIFFS - UNIT 2
March 15, 1996

SUMMARY OF OPERATING EXPERIENCE

February 1996

The unit began the month at 100% power (860 MWe). On 02/27/96 at 1708 an automatic reactor trip occurred due to a partial loss of off site power. A root cause analysis revealed that earlier on the day of the trip, a switchyard relay had malfunctioned. This opened two switchyard breakers but did not adversely impact the plant. Subsequent trouble shooting, however caused the inadvertent opening of additional switchyard breakers which disconnected the unit from the 500 KV electrical transmission system, causing the unit to automatically trip. All required safety systems functioned as required.

Power to the normal plant service busses was restored at 2015. During this shutdown period a leak was discovered on 21 Steam Generator surface blowdown line. The decision to cooldown was made to allow repairs. The unit was placed in cold shutdown (Mode 5) on 02/29/96 at 1430.

The unit remained in cold shutdown (Mode 5) for the remainder of the month.