BALTIMORE
GAS AND
ELECTRIC

CALVERT CLIFFS NUCLEAR POWER PLANT
1650 CALVERT CLIFFS PARKWAY • LUSBY, MARYLAND 20657-4702

CHARLES H. CRUSE
PLANT GENERAL MANAGER
CALVERT CLIFFS

January 13, 1994

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
December 1993 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) 260-3989.

Very truly yours,

CHC/FP/dlm

Attachments

cc: D. A. Brune, Esquire
J. E. Silberg, Esquire
R. A. Capra, NRC
D. G. McDonald, Jr., NRC
T. T. Martin, NRC
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UNIT 1

OPERATING DATA REPORT

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Docket No. 50-317
January 13, 1994
Prepared by Frank Piazza
Telephone:(410)260-3821

OPERATING STATUS

1.	UNIT NAME	Calvert Cliffs Unit 1
2.	REPORTING PERIOD	DECEMBER 1993
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)	866
7.	MAXIMUM DEPENDABLE CAP'Y (NET MWe)	830
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	744	8,760	163,501
12.	NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	8,619.0	116,969.0
13.	REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14.	HOURS GENERATOR ON LINE	744.0	8,599.5	114,578.4
15.	UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16.	GROSS THERMAL ENERGY GENERATED (MWH)	1,986,093	23,035,968	290,314,819
17.	GROSS ELECTRICAL ENERGY GEN'TED(MWH)	662,384	7,646,012	96,473,546
18.	NET ELECTRICAL ENERGY GENERATED(MWH)	635,795	7,334,896	91,804,282
19.	UNIT SERVICE FACTOR	100.0	98.2	70.1
20.	UNIT AVAILABILITY FACTOR	100.0	98.2	70.1
21.	UNIT CAPACITY FACTOR (USING MDC NET)	103.6	101.1	68.0
22.	UNIT CAPACITY FACTOR (USING DER NET)	101.1	99.1	66.4
23.	UNIT FORCED OUTAGE RATE	0.0	1.8	8.7

24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):
Refueling, February 4, 1994, 95 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 January 13, 1994
COMPLETED BY Frank Piazza
TELEPHONE (410) 260-3821

REPORT MONTH December 1993

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
93-06	931207	F	0	H	5	N/A	FK	XFMR	On 12/7/93 a transformer fire at the Waugh Chapel Substation, located 48 miles north of Calvert Cliffs, required a power reduction to approximately 75% reactor power until repairs were completed. While the power was reduced, a leak on the 13A Feedwater Heater relief valve was repaired. The relief valve was overhauled and the setpoint was increased. The reactor was returned to full power on 12/8/93 at 2000.

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

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Docket No. 50-317
Calvert Cliffs Unit No. 1
January 13, 1994
Prepared by Frank Piazza
Telephone: (410) 260-3821

DECEMBER 1993

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Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	866	17	866
2	864	18	865
3	865	19	866
4	751	20	866
5	847	21	866
6	863	22	865
7	752	23	867
8	761	24	868
9	864	25	867
10	864	26	868
11	865	27	868
12	866	28	868
13	865	29	868
14	865	30	869
15	866	31	868
16	866		

DOCKET NO. 50-317
CALVERT CLIFFS - UNIT 1
January 13, 1994

SUMMARY OF OPERATING EXPERIENCE

December 1993

The unit began the month at 100% reactor power and 860 MWe.

On 12/4/93, at 0310, the power was reduced for water box cleaning, removal of the Main Generator cooler section and repair of the 16B Feedwater Heater relief valve. The unit was returned to full power on 12/5/93 at 0630.

On 12/7/93 at 1017, a transformer fire at the Waugh Chapel Substation, located 48 miles north of Calvert Cliffs, required a power reduction until repairs could be affected. Power was decreased to approximately 77% reactor power at 1200 on 12/7/93. During the power reduction, maintenance was performed to repair 13A Feedwater Heater relief valve. The unit was returned to full power on 12/8/93 at 2000.

The Unit ended the month at 865 MWe and 100% reactor power.

REFUELING INFORMATION REQUEST

1. Name of facility: **Calvert Cliffs Nuclear Power Plant, Unit No. 1.**

2. Scheduled date for next refueling shutdown: **February 4, 1994.**

3. Scheduled date for restart following refueling: **May 9, 1994.**

4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

   Operation after refueling will require either "Core Operating Limits Report" or will require a change to Technical Specification 3/4.2.2, "Linear Heat Rate".

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

   Submitted September 1993 for Core Operating Limits Report.

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) 1426. (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 2014

NOTE 1: 4710 total licensed site storage capacity.
($1830_{\text{pool}} + 2880_{\text{ISFSI}}$)

NOTE 2: 48 Spent Fuel Assemblies in the ISFSI and 24 in process of being transferred.

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UNIT 2

OPERATING DATA REPORT

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Docket No. 50-318
January 13, 1994
Prepared by Frank Piaz
Telephone:(410)260-382

OPERATING STATUS

1.	UNIT NAME	Calvert Cliffs Unit 2
2.	REPORTING PERIOD	DECEMBER 1993
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)	866
7.	MAXIMUM DEPENDABLE CAP'Y (NET MWe)	830
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	744	8,760	146,856
12.	NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	6,072.4	106,036.8
13.	REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14.	HOURS GENERATOR ON LINE	744.0	5,941.8	104,523.6
15.	UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16.	GROSS THERMAL ENERGY GENERATED (MWH)	1,997,513	15,720,751	266,865,543
17.	GROSS ELECTRICAL ENERGY GEN'TED(MWH)	671,946	5,197,09	88,155,869
18.	NET ELECTRICAL ENERGY GENERATED(MWH)	645,972	4,974,705	84,243,134
19.	UNIT SERVICE FACTOR	100.0	67.8	71.2
20.	UNIT AVAILABILITY FACTOR	100.0	67.8	71.2
21.	UNIT CAPACITY FACTOR (USING MDC NET)	105.2	68.6	69.5
22.	UNIT CAPACITY FACTOR (USING DER NET)	102.8	67.2	67.9
23.	UNIT FORCED OUTAGE RATE	0.0	1.0	5.7

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:
N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
UNIT NAME Calvert Cliffs-U2
DATE January 13, 1993
COMPLETED BY Frank Piazza
TELEPHONE (410) 260-3821

REPORT MONTH December 1993

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
93-07	931207	F	0	H	5	N/A	FK	XFMR	On 12/7/93 at 1017 a transformer fire at the Waugh Chapel Substation, located 48 miles north of Calvert Cliffs, required a power reduction to approximately 75% reactor power. The transformer was repaired and the unit was returned to 100% reactor power on 12/7/93 at 2150.

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

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Docket No. 50-318
Calvert Cliffs Unit No. 2
January 13, 1994
Prepared by Frank Piazza
Telephone: (410) 260-3821

DECEMBER 1993

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Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	871	17	871
2	871	18	871
3	872	19	871
4	871	20	871
5	871	21	871
6	870	22	870
7	809	23	870
8	867	24	870
9	868	25	871
10	868	26	870
11	870	27	870
12	870	28	869
13	870	29	870
14	871	30	870
15	870	31	871
16	871		

DOCKET NO. 50-318
CALVERT CLIFFS - UNIT 2
January 13, 1994

SUMMARY OF OPERATING EXPERIENCE

December 1993

The unit began the month at 100% reactor power and 865 MWe.

On 12/7/93, at 1017, power was reduced to 75% reactor power because of a transformer fire at the Waugh Chapel Substation, located 48 miles north of Calvert Cliffs. The power was returned to 100% at 2150 on 12/7/93.

The unit ended the month at 100% reactor power and 870 MWe.

REFUELING INFORMATION REQUEST

1. Name of facility: **Calvert Cliffs Nuclear Power Plant, Unit No. 2**

2. Scheduled date for next refueling shutdown: **March 3, 1995.**

3. Scheduled date for restart following refueling: **May 17, 1995.**

4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

   Unknown.

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

   Unknown.

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) 1426. (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 2016.

NOTE 1: 4710 total licensed site storage capacity.
($1830_{\text{pool}} + 2880_{\text{ISFSI}}$)

NOTE 2: 48 Spent Fuel Assemblies in the ISFSI and 24 in process of being transferred.