



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

CHARLES H. CRUSE
PLANT GENERAL MANAGER
CALVERT CLIFFS

March 15, 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
February 1994 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/bjd

Attachments

cc: D. A. Brune, Esquire
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UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
 March 15, 1994
 Prepared by Frank Piazza
 Telephone: (410)260-3821

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	FEBRUARY 1994
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)	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	672	1,416	164,917
12. NUMBER OF HOURS REACTOR WAS CRITICAL	173.2	734.6	117,703.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	159.3	720.7	115,299.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	391,806	1,903,731	292,218,550
17. GROSS ELECTRICAL ENERGY GEN'TED(MWH)	129,848	637,493	97,111,039
18. NET ELECTRICAL ENERGY GENERATED(MWH)	123,413	606,906	92,411,188
19. UNIT SERVICE FACTOR	23.7	50.9	69.9
20. UNIT AVAILABILITY FACTOR	23.7	50.9	69.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	22.1	51.6	67.9
22. UNIT CAPACITY FACTOR (USING DER NET)	21.7	50.7	66.3
23. UNIT FORCED OUTAGE RATE	17.9	23.2	8.8

SIX MONTHS (TYPE, DATE AND DURATION):
 Refueling, February 8, 1994, 90 Days

25. IF SHUTDOWN AT END OF REPORT PERIOD,
 ESTIMATED DATE OF START-UP:
 May 6, 1994

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317
 UNIT NAME Calvert Cliffs-U1
 DATE March 15, 1994
 COMPLETED BY Frank Piazza
 TELEPHONE (410) 260-3821

REPORT MONTH February 1994

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
94-01	940124	F	34.8	A	4	317/94-01	ED	INVT	The unit automatically shutdown on 1/24/94 at 0926 due to a loss of the 120 Vac Vital Panel 1Y02.
94-02	940209	S	477.9	C	1	N/A	N/A	N/A	Unit shutdown for planned refueling outage.

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, 1994
 Prepared by Frank Piazza
 Telephone: (410) 260-3821

FEBRUARY 1994

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	0	17	0
2	92	18	0
3	781	19	0
4	862	20	0
5	862	21	0
6	863	22	0
7	862	23	0
8	819	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0		
14	0		
15	0		
16	0		

DOCKET NO. 50-317
CALVERT CLIFFS - UNIT 1
March 15, 1994

SUMMARY OF OPERATING EXPERIENCE

February 1994

The unit began the month shutdown in mode 3 due to a unit trip occurring late January due to a loss of the 120 Vac Vital Panel 1Y02. The unit was returned to power and paralleled to the grid on 2/2/94 at 1048.

On 2/8/94 at 1942 the unit commenced shutting down for a planned refueling outage. The unit was removed from the grid at 0206 on 2/9/94. The unit ended the month shutdown and defueled in mode 6.

REFUELING INFORMATION REQUEST

1. Name of facility: **Calvert Cliffs Nuclear Power Plant, Unit No. 1.**
2. Scheduled date for next refueling shutdown: **Unit is currently shutdown for refueling. Next shutdown for refueling will be March, 1996.**
3. Scheduled date for restart following refueling: **May 6, 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) 0. (b) 1643. (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 pool + 2880 ISFSI)

NOTE 2: 72 Spent Fuel Assemblies in the ISFSI.

***** Entry has changed since last reported.

 UNIT 2

OPERATING DATA REPORT

Docket No. 50-318
 March 15, 1994
 Prepared by Frank Piazza
 Telephone: (410)260-3821

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	FEBRUARY 1994
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)	860
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	672	1,416	148,272
12. NUMBER OF HOURS REACTOR WAS CRITICAL	672.0	1,243.2	107,280.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	672.0	1,240.0	105,763.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,787,166	3,296,932	270,162,475
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	603,487	1,109,784	89,265,653
18. NET ELECTRICAL ENERGY GENERATED (MWH)	580,228	1,063,837	85,306,971
19. UNIT SERVICE FACTOR	100.0	87.6	71.3
20. UNIT AVAILABILITY FACTOR	100.0	87.6	71.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	104.0	90.5	69.7
22. UNIT CAPACITY FACTOR (USING DER NET)	102.2	88.9	68.1
23. UNIT FORCED OUTAGE RATE	0.0	12.4	5.8
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 March 15, 1994
 COMPLETED BY Frank Piazza
 TELEPHONE (410) 260-3821

REPORT MONTH February 1994

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
94-02	940226	F	0	A	5	N/A	SJ	RV	Power was reduced on 02/26/94 at 0200 for Main Turbine Valve testing, Waterbox cleaning and Data Acquisition System repairs. During the maintenance, the relief valve for 25A Feedwater Heater Tube side (2-RV-1427) was noted to be lifting. Power was reduced further to approximately 76% to affect repairs. The relief valve was lifting due to a broken spring. The relief valve spring was replaced with the same type spring and placed back in service. The relief valve will be replaced in the near future with a new style relief valve.

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. 50-318
 Calvert Cliffs Unit No. 2
 March 15, 1994
 Prepared by Frank Piazza
 Telephone: (410) 260-3821

FEBRUARY 1994

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	867	17	870
2	867	18	871
3	872	19	872
4	872	20	869
5	872	21	873
6	873	22	871
7	872	23	870
8	872	24	872
9	867	25	871
10	869	26	710
11	870	27	836
12	870	28	869
13	870		
14	868		
15	870		
16	870		

DOCKET NO. 50-318
CALVERT CLIFFS - UNIT 2
March 15, 1994

SUMMARY OF OPERATING EXPERIENCE

February 1994

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

On 2/20/94 at 0015 while a Surveillance Test was being performed on the Control Element Assembly (CEA), one CEA dropped causing the power to decrease to approximately 97%. The problem was corrected and the power was restored to 100% at 0420.

On 2/26/94 at 0200 power was reduced to approximately 750 MWe for Main Turbine Valve testing, Water Box cleaning, Data Acquisition System (DAS) repairs and repair of the Intercept and Reheat Valves. Power was further reduced during the maintenance to approximately 76% to repair the 25A Feedwater Heater Tube Side Relief Valve (2-RV-1427) which was lifting due to a broken spring. The relief valve was repaired and the power was restored to 100% at 0900 on 2/27/94. The unit remained at 100% power (870 MWe) for the remainder of the month.

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) 1643. (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 pool + 2880 ISFSI)

NOTE 2: 72 Spent Fuel Assemblies in the ISFSI.

***** Entry has changed since last reported.