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R. E. DENTON
GENERAL MANAGER
CALVERT CLIFFS

June 13, 1991

U.S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
Units 1 & 2; Dockets 50-317 and 50-318
May 1991 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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UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
 June 13, 1991
 Prepared by Leo Shanley
 Telephone: (301)260-6744

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	MAY 1991
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	744	3,623	140,820
12. NUMBER OF HOURS REACTOR WAS CRITICAL	413.0	2,903.7	99,420.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	412.2	2,882.1	97,171.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,094,700	7,407,442	244,438,156
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	362,921	2,483,927	81,314,694
18. NET ELECTRICAL ENERGY GENERATED (MWH)	347,705	2,379,863	77,270,040
19. UNIT SERVICE FACTOR	55.4	79.6	69.0
20. UNIT AVAILABILITY FACTOR	55.4	79.6	69.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	56.6	79.6	66.5
22. UNIT CAPACITY FACTOR (USING DER NET)	55.3	77.7	64.9
23. UNIT FORCED OUTAGE RATE	0.0	12.4	9.5
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):	N/A		

25. IF SHUTDOWN AT END OF REPORT PERIOD,
 ESTIMATED DATE OF START-UP:
 July 8, 1991

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317
 UNIT NAME Calvert Cliffs-U1
 DATE June 13, 1991
 COMPLETED BY Leo B. Shanley
 TELEPHONE (301)260-6744

REPORT MONTH May 1991

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
91-04	910518	S	331.8	B	1	N/A			Unit shutdown for scheduled outage to perform maintenance and surveillance tests.

¹ F: Forced
 S: Scheduled

² 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)

³ Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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

⁵ Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-317
Calvert Cliffs Unit No. 1
June 13, 1991
Completed by Leo Shanley
Telephone: (301) 260-6744

MAY 1991

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	853	17	842
2	818	18	34
3	851	19	0
4	855	20	0
5	855	21	0
6	856	22	0
7	854	23	0
8	854	24	0
9	853	25	0
10	853	26	0
11	852	27	0
12	852	28	0
13	853	29	0
14	852	30	0
15	850	31	0
16	851		

DOCKET #50-317
CALVERT CLIFFS - UNIT 1
June 13, 1991

SUMMARY OF OPERATING EXPERIENCE

May 1991

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

Power was reduced to 92% (750 MWe) from 1245 to 2115 on May 2 to repair tube leaks in 13B condenser.

Power reduction for a scheduled maintenance outage commenced at 2200 on May 17. The generator was removed from the grid on May 18 at 0413 and the Reactor was shutdown at 0500.

The unit ended the month in cold shutdown (Mode 5), scheduled to return to service on July 8, 1991.

June 7, 1991

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 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.

November 8, 1991.

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 1992.

UNIT 2

OPERATING DATA REPORT

Docket No. 50-318
June 13, 1991
Prepared by Leo Shanley
Telephone: (301) 260-6744

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	MAY 1991
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	744	3,623	124,175
12. NUMBER OF HOURS REACTOR WAS CRITICAL	601.6	658.2	88,095.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	541.8	541.8	86,770.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,140,002	1,140,002	219,529,420
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	366,277	366,277	72,650,909
18. NET ELECTRICAL ENERGY GENERATED (MWH)	344,542	344,542	69,387,113
19. UNIT SERVICE FACTOR	72.8	15.0	69.9
20. UNIT AVAILABILITY FACTOR	72.8	15.0	69.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	56.1	11.5	67.7
22. UNIT CAPACITY FACTOR (USING DER NET)	54.8	11.3	66.1
23. UNIT FORCED OUTAGE RATE	24.6	24.6	5.5
24. SHUTDOWNS SCHEDULED OVER THE NEXT			

SIX MONTHS (TYPE, DATE AND DURATION):

Maintenance/Test, October 4, 1991 for 44 days

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	<u>50-318</u>
UNIT NAME	<u>Calvert Cliffs-U2</u>
DATE	<u>June 13, 1991</u>
COMPLETED BY	<u>Leo B. Shanley</u>
TELEPHONE	<u>(301)260-6744</u>

REPORT MONTH May 1991

Page 1 of 2

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
91-05	910501	G	23.2	C	N/A	N/A			Continued shutdown for 8th Cycle Refueling Outage.
91-06	910501	F	4.1	B	4	N/A	HA	GENERA	Unit taken off-line due to high vibrations on main generator exciter bearing. Added balance shot to correct problem.
91-07	910502	F	1.5	B	4	N/A	HA	GENERA	Unit taken off-line due to high vibrations on main generator exciter bearing. Added balance shot to correct problem.
91-08	910502	F	38.8	A	3	91-005	CH	MECFUN	1) Low Steam Generator Level Reactor Protective System Trip occurred due to loss of feedwater. 2) Feedwater was lost when 21 Steam Generator Feed Pump (SGFP) speed controller failed. Cause was a damaged circuit board edge connector. 3) Replaced connector and tested controller. Inspected and tested 22 SGFP speed controller.
91-09	910504	S	2.0	B	4	N/A			Unit taken off-line to perform Main Turbine overspeed trip test.
91-10	910511	F	60.8	B	1	N/A	HA	GENERA	Unit taken off-line and reactor shutdown due to excessive vibrations on main generator exciter bearing. Added balance shot.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs-U2
 DATE June 13, 1991
 COMPLETED BY Leo B. Shanley
 TELEPHONE (301)260-6744

REPORT MONTH May 1991

Page 2 of 2

91-11	910520	F	71.8	A	1	N/A	HJ	PIPEXX	1) Unit taken off-line and reactor shutdown to repair a steam leak on a Main Steam drain line. 2) Leak was from a cracked weld on the drain line caused by excessive cyclic stress. 3) Repaired drain line and changed piping supports to alleviate stresses.
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1 F: Forced
 S: Scheduled

2 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)

3 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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

5 Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-318
Calvert Cliffs Unit No. 2
June 13, 1991
Completed by Leo Shanley
Telephone: (301) 260-6744

MAY 1991

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	0	17	814
2	0	18	812
3	0	19	813
4	108	20	833
5	174	21	837
6	237	22	841
7	465	23	547
8	471	24	0
9	565	25	0
10	522	26	29
11	35	27	768
12	0	28	842
13	23	29	840
14	596	30	841
15	698	31	838
16	807		

DOCKET #50-318
CALVERT CLIFFS - UNIT 2
June 13, 1991

SUMMARY OF OPERATING EXPERIENCE

May 1991

The unit began the month critical with preparations being made to roll the Main Turbine.

The generator was paralleled with the grid from 2314 to 2335 on May 1. The generator was taken off-line due to excessive vibrations on #11 Main Generator (exciter) bearing. Balance shot was added and the generator was paralleled again at 0341 on May 2. Power was raised to 25% (100 MWe).

The generator was removed from the grid at 0924 on May 2 due to continued vibrations of the generator exciter bearing. At 1048, 21 Steam Generator Feed Pump (SGFP) tripped due to a failure of the speed controller. An automatic scram occurred at 1050 due to low Steam Generator levels.

The reactor was taken critical at 1627 on May 3 and the generator was paralleled with the grid at 0140 on May 4. Power was maintained at 30% (155 MWe) until 1955. The generator was taken off-line at 2058 to perform a Main Turbine overspeed trip test. The generator was placed back on-line at 2255 and power was raised to 30% (175 MWe).

Power was raised to 78% over several days while performing various tests. Power ascension was halted at 1000 on May 9 due to excessive vibrations on #11 bearing. Power was reduced to minimum and the unit was taken off-line at 0425 on May 11 to make repairs. The reactor was shutdown at 0540.

The reactor was taken critical at 0448 on May 13 and the generator was paralleled at 1715. Testing continued as power was raised to 100%. Full power (830 MWe) was achieved at 0040 on May 20.

Power was reduced to 90% at 1323 on May 20 due to loss of the plant computer. At 1510, a unit shutdown was commenced due to a steam leak on a Main Steam drain line. The generator was removed from the grid at 1710 and the reactor was shutdown at 1755.

The reactor was taken critical at 1135 on May 26 and the generator was paralleled at 1700. 100% power (825 MWe) was achieved at 1120 on May 27.

The unit ended the month at 100% (840 MWe).

June 7, 1991

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant. Unit No. 2.
2. Scheduled date for next refueling shutdown: March 5, 1993.
3. Scheduled date for restart following refueling: May 17, 1993.
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Not identified at this time.

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

November 17, 1992.

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 1992.