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R. E. DENTON
GENERAL MANAGER
CALVERT CLIFFS

January 11, 1991

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
December 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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 UNIT 1

OPERATING DATA REPORT

Docket No. 50-317
 January 11, 1991
 Prepared by Leo Shanley
 Telephone:(301)260-6744

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	DECEMBER 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	744	8,760	137,197
12. NUMBER OF HOURS REACTOR WAS CRITICAL	271.7	1,924.5	96,516.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	260.6	1,841.2	94,289.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	667,565	4,339,464	237,030,714
17. GROSS ELECTRICAL ENERGY GEN'TED(MWH)	220,862	1,411,650	78,830,767
18. NET ELECTRICAL ENERGY GENERATED(MWH)	210,771	1,344,367	74,890,177
19. UNIT SERVICE FACTOR	35.0	21.0	68.7
20. UNIT AVAILABILITY FACTOR	35.0	21.0	68.7
21. UNIT CAPACITY FACTOR (USING MDC NET)	34.3	18.6	66.2
22. UNIT CAPACITY FACTOR (USING DER NET)	33.5	18.2	64.6
23. UNIT FORCED OUTAGE RATE	0.0	1.8	9.4

24. SHUTDOWNS SCHEDULED OVER THE NEXT
 SIX MONTHS (TYPE, DATE AND DURATION):
 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. 50-317

UNIT NAME Calvert Cliffs-U1

DATE January 11, 1991

COMPLETED BY Leo Shanley

TELEPHONE (301)260-6744

REPORT MONTH December 1990

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
90-15	901201	S	483.4	B	1	N/A	SF	PIPEXX	1) Unit was shutdown to investigate and repair nitrogen leaks from 11B and 12B Safety Injection Tanks (SIT). 2) Source of leaks were found to be cracked welds on relief valve piping on top of each of the SITs. It was determined that the cracks were caused by excessive vibration and cyclic stress on the welded joints. 3) Corrected problems by replacing pipes on top of SITs and relocating relief valves.

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
 January 11, 1991
 Completed by Leo Shanley
 Telephone: (301) 260-6744

DECEMBER 1990

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(MWe-Net)
1	2	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	260
6	0	22	783
7	0	23	858
8	0	24	858
9	0	25	857
10	0	26	859
11	0	27	861
12	0	28	861
13	0	29	861
14	0	30	861
15	0	31	862
16	0		

DOCKET # 50-317
CALVERT CLIFFS - UNIT 1
January 11, 1991

SUMMARY OF OPERATING EXPERIENCE

December 1990

The unit began the month at 43% power (320 MWe) in the process of lowering power in preparation for a maintenance outage to investigate and repair Safety Injection Tank (SIT) nitrogen leaks and add oil to 12B Reactor Coolant Pump (RCP).

The generator was removed from the grid on 1 December at 0402 and the reactor was shutdown at 0604.

The nitrogen leaks from 11B and 12B SITs were repaired.

The oil leak on 12B RCP was discovered to be a leaky flange joint on the pump's lubrication system. The flange was tightened and oil was added.

Reactor Coolant System heatup was commenced on 18 December. The reactor was critical at 2221 on 20 December and the generator was paralleled with the grid at 0725 on 21 December.

85% Power (710 MWe) was reached at 2210 on 21 December and was held there until 1045 on 22 December for Reactor Protection System testing. 100% (850 MWe) power was achieved at 1505.

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

January 8, 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 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.

 UNIT 2

OPERATING DATA REPORT

Docket No. 50-318
 January 11, 1991
 Prepared by Leo Shanley
 Telephone:(301)260-6744

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	DECEMBER 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	744	8,760	120,552
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	71.5
20. UNIT AVAILABILITY FACTOR	0.0	0.0	7.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	69.4
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	67.8
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: February 23, 1991			

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-318
 UNIT NAME Calvert Cliffs-U2
 DATE January 11, 1991
 COMPLETED BY Leo Shanley
 TELEPHONE (301)260-6744

REPORT MONTH December 1990

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
90-12	901201	S	744	C	N/A	N/A			Continued shutdown for 8th Cycle Refueling Outage.

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
 January 11, 1991
 Completed by Leo Shanley
 Telephone: (301) 260-6744

DECEMBER 1990

Average Daily Power Level		Average Daily Power Level	
Day	(MWe-Net)	Day	(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	31	0
16	0		

DOCKET # 50-318
CALVERT CLIFFS - UNIT 2
January 11, 1991

SUMMARY OF OPERATING EXPERIENCE

December 1990

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

Work was completed on the Salt Water System.

The following major outage work continued in preparation for plant heatup and reactor startup:

- 1) Reactor Vessel reassembly.
- 2) Integrated Leak Rate Test preparations.
- 3) Modifications to Auxiliary Feedwater Steam Supply Bypass Valves.
- 4) Repairs to 23 High Pressure Safety Injection Motor.

The unit is scheduled to return to service on February 23, 1991.

January 8, 1991

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: February 23, 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