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November 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
October 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
J. E. Silberg, Esquire
L. B. Marsh, NRC
D. G. McDonald, Jr., NRC
T. T. Martin, NRC
P. R. Wilson, NRC
R. A. Hartfield, NRC
R. I. McLean, DNR
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P. Lewis, INPO
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UNIT 1

OPERATING DATA REPORT

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

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	OCTOBER 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)	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	745	7,296	170,797
12. NUMBER OF HOURS REACTOR WAS CRITICAL	745.0	4,447.7	121,416.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	745.0	4,190.1	118,772.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,996,786	10,909,035	301,223,854
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	661,084	3,580,858	100,054,404
18. NET ELECTRICAL ENERGY GENERATED (MWH)	634,369	3,425,816	95,230,098
19. UNIT SERVICE FACTOR	100.0	57.5	69.5
20. UNIT AVAILABILITY FACTOR	100.0	57.5	69.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	102.0	56.4	67.5
22. UNIT CAPACITY FACTOR (USING DER NET)	100.8	55.6	66.0
23. UNIT FORCED OUTAGE RATE	0.0	14.6	8.9

24. SHUTDOWNS SCHEDULED OVER THE NEXT
SIX MONTHS (TYPE, DATE AND DURATION):
N/A * Time change

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 November 15, 1994
 COMPLETED BY Frank Piazza
 TELEPHONE (410) 260-3821

REPORT MONTH October 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
									There were no significant power reductions for this 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

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-317
Calvert Cliffs Unit No. 1
November 15, 1994
Prepared by Frank Piazza
Telephone: (410) 260-3821

OCTOBER 1994

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	771	17	857
2	767	18	857
3	840	19	857
4	855	20	858
5	856	21	857
6	858	22	858
7	858	23	859
8	857	24	859
9	857	25	858
10	858	26	860
11	860	27	861
12	859	28	858
13	859	29	856
14	857	30	857
15	857	31	857
16	858		

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

SUMMARY OF OPERATING EXPERIENCE

October 1994

The unit operated the entire month at 100% power.

REFUELING INFORMATION REQUEST

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

None identified at this time.

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

N/A.

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) 1394 (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: 192 Spent Fuel Assemblies in the ISFSI.*

* Entry has changed since last reported.

UNIT 2

OPERATING DATA REPORT

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

OPERATING STATUS

1. UNIT NAME	Calvert Cliffs Unit 2
2. REPORTING PERIOD	OCTOBER 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)	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	745	7,296	154,152
12. NUMBER OF HOURS REACTOR WAS CRITICAL	647.9	6,640.0	112,676.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	647.9	6,584.0	111,107.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,735,949	17,056,273	283,921,816
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	577,369	5,656,816	93,812,685
18. NET ELECTRICAL ENERGY GENERATED (MWH)	554,718	5,422,824	89,665,958
19. UNIT SERVICE FACTOR	87.0	90.2	72.1
20. UNIT AVAILABILITY FACTOR	87.0	90.2	72.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	88.6	89.0	70.5
22. UNIT CAPACITY FACTOR (USING DER NET)	88.1	88.0	68.8
23. UNIT FORCED OUTAGE RATE	13.0	7.9	5.8
24. SHUTDOWNS SCHEDULED OVER THE NEXT			

SIX MONTHS (TYPE, DATE AND DURATION):

February 18, 1995

* Time change

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 November 15, 1994
 COMPLETED BY Frank Piazza
 TELEPHONE (410) 260-3821

REPORT MONTH October 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
94-013	941027	F	97.1	A	3	Not Available	EL	IPBU	Unit tripped from 100% reactor power due to loss of electrical load at 2353 on 10/27/94. The cause of the trip was due to a Reactor Protection System (RPS) actuation. The Main Generator Differential or Ground relay sensed a ground from the generator A-phase to ground and input a signal to the RPS, initiating the trip actuation signal. Initial investigation revealed the A-phase transition links to the Isophase Bus Duct had failed due to excessive heat caused by a high resistance condition. A Significant Incident Finding Team (SIFT) was immediately formed and is currently on-going.

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

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

SUMMARY OF OPERATING EXPERIENCE

October 1994

The unit began the month at 100% reactor power. On 10/26/94 at 2137 power was reduced to 96% to investigate and repair Moisture Separator Reheater (MSR) control valve failures. All four control valves failed shut on the MSRs. The problem was a failure of a temperature controller common to all the valves. The temperature controller was repaired and the unit was returned to 100% at 0340 on 10/27/94.

On 10/27/94 at 2353 the reactor tripped on loss of generator load. The trip was initiated by the Reactor Protection System (RPS) actuation signal. Initial investigation revealed the A phase of the Main Generator Transition Line to the Isophase Bus Ducts had failed due to excessive heat caused by a high resistance condition. An investigation team was immediately formed to determine the root cause of the loss of generator load.

The unit ended the month shutdown.

AVERAGE DAILY UNIT POWER LEVEL

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

OCTOBER 1994

Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	852	17	858
2	851	18	857
3	853	19	856
4	857	20	857
5	855	21	858
6	855	22	858
7	857	23	858
8	856	24	856
9	855	25	857
10	855	26	857
11	857	27	853
12	857	28	0
13	857	29	0
14	857	30	0
15	857	31	0
16	858		

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2
2. Scheduled date for next refueling shutdown: February 18, 1995.
3. Scheduled date for restart following refueling: May 22, 1995.
4. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

Yes.

- a. Revision of the Design Features Section to adopt Improved Standard Technical Specifications format which allows insertion of four lead fuel assemblies.
 - b. License amendment to support installation of a Variable LTOP system.
 - c. License amendment to extend allowed out of service times for control room HVAC and emergency diesel generator to support Station Blackout modifications.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.
 - a. Submitted 12/08/93
 - b. Submitted 05/27/94
 - c. Submitted 09/23/94

6. Important licensing considerations associated with the refueling.

An exemption from 10 CFR 50.46, 10 CFR 50.44, and Appendix K to 10 CFR 50 is required to load four lead fuel assemblies. The exemption was submitted November 1, 1994.*

An exemption from General Design Criteria 2 of Appendix A to 10 CFR Part 50 is required to allow the removal of the missile door to Emergency Diesel Generator No. 21. The exemption is needed to upgrade the capacity of the generator. The exemption was submitted 08/04/94.

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

(a) 217

(b) 1394 (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

November 7, 1994

NFM 94-325

Page 4 of 4

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: 192 Spent Fuel Assemblies in the ISFSI.*

* Entry has changed since last reported.