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 UNIT 1

OPERATING DATA REPORT

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Docket No. 50-317  
 September 15, 1988  
 Prepared by C. Behnke  
 Telephone: (301) 260-4871

OPERATING STATUS

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1. UNIT NAME	Calvert Cliffs Unit 1
2. REPORTING PERIOD	AUGUST 1988
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	5,855	116,748
12. NUMBER OF HOURS REACTOR WAS CRITICAL	727.4	3,797.5	90,184.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	3,019.4
14. HOURS GENERATOR ON LINE	721.9	3,681.5	88,134.4
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,839,991	9,383,057	221,457,775
17. GROSS ELECTRICAL ENERGY GEN'TED (MWH)	599,333	3,125,559	73,341,271
18. NET ELECTRICAL ENERGY GENERATED (MWH)	572,467	2,991,355	70,027,316
19. UNIT SERVICE FACTOR	97.0	62.9	75.5
20. UNIT AVAILABILITY FACTOR	97.0	62.9	75.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	93.3	61.9	72.7
22. UNIT CAPACITY FACTOR (USING DER NET)	91.1	60.5	71.0
23. UNIT FORCED OUTAGE RATE	3.0	3.0	9.9
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION):	None		
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP:	N/A		

Note: Line 21 "Cumulative" factor no longer uses a weighted average.

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-317

UNIT NAME Calvert Cliffs-U1

DATE Sept. 15, 1988

COMPLETED BY C. Behnke

TELEPHONE (301)260-4871

REPORT MONTH August 1988

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
88-10	880814	F	97.1	A	N/A	N/A	CH	CKTBRK	Reduced power caused by loss of #11 S/G Feed Pump. Preliminary investigation revealed need to change: 1. Casing liquid level switch. 2. Exhaust valve position trip setting. 3. Various alarm setpoints.
88-11	880825	F	22.1	A	3	88-09	CH	PIPEXX	Trip on loss of load caused by a high Steam Generator level, due to a control airline failure to #12 Main Feed Reg. Valve. Corrective Action includes: 1. Relocating pressure switch to minimize vibration. 2. Developing program to identify air lines subject to similar failures.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> 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)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

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

<sup>5</sup> Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-317  
 Calvert Cliffs Unit No. 1  
 September 15, 1988  
 Completed by C. Behnke  
 Telephone: (301) 260-4871

AUGUST 1988

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Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	840	17	679
2	841	18	840
3	843	19	840
4	845	20	842
5	844	21	843
6	844	22	845
7	841	23	758
8	841	24	828
9	843	25	0
10	842	26	660
11	842	27	840
12	842	28	842
13	708	29	842
14	562	30	842
15	567	31	843
16	561		

DOCKET # 50-317  
CALVERT CLIFFS - UNIT 1  
September 15, 1988

SUMMARY OF OPERATING EXPERIENCE

August 1988

Unit 1 began the month at full power (100%), 845 MWe Net. The maximum operating output decreased to a minimum of 570 MWe Net.

On 8/13/88, #11 Feed Pump tripped. The pump was reset and returned to service. Pump investigation required that we operate at 70% power. On 08/17/88, we increased power to 100%. On 08/23/88, at 1115, power was reduced to replace the #11 Feed Pump casing level switch. Power was then increased to 100%. On 08/24/88 at 2330, the unit tripped on high S/G level (#12) when the Feedwater Regulating Valve control air supply line sheared off. On 08/25/88 at 1607, we conducted a normal reactor/unit start-up and escalation to power. The unit was paralleled to the grid at 2135 on 08/25/88. Escalation to 100% was delayed at 30% for feedwater chemistry and again @ 70% due to high vibration on #4 Main Turbine Bearing. 100% power was reached @ 1100 on 08/26/88.

The unit ended this reporting period @ 100% power on 08/31/88.

Sept. 6, 1988

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 1.
2. Scheduled date for next refueling shutdown: March 31, 1990
3. Scheduled date for restart following refueling: May 15, 1990
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 changes will be such as to allow operation of the plant with a higher enriched (4.3%) reload batch and reshuffled core for Unit 1's next 24 month cycle.

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

June 9, 1988 ( enrichment submittal )

February 15, 1990 ( reload submittal )

6. Important licensing considerations associated with the refueling.

Reload fuel will be similar to reload fuel inserted into the previous cycle except for the higher enrichment ( 4.3% ).

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

(a) 217

(b) 1331

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) 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.

April, 1991

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UNIT 2

OPERATING DATA REPORT

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Docket No. 50-318  
September 15, 1988  
Prepared by C.Behnke  
Telephone: (301)260-4871

OPERATING STATUS  
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1. UNIT NAME Calvert Cliffs Unit 2  
2. REPORTING PERIOD AUGUST 1988  
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	5,855	100,103
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	4,898.1	82,741.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1,296.6
14. HOURS GENERATOR ON LINE	744.0	4,886.2	81,567.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,945,728	12,932,187	206,272,851
17. GROSS ELECTRICAL ENERGY GEN'TED (MVH)	624,474	4,305,860	68,193,961
18. NET ELECTRICAL ENERGY GENERATED (MWH)	597,022	4,129,691	65,120,749
19. UNIT SERVICE FACTOR	100.0	83.5	81.5
20. UNIT AVAILABILITY FACTOR	100.0	83.5	81.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	97.3	85.5	78.9
22. UNIT CAPACITY FACTOR (USING DER NET)	95.0	83.5	77.0
23. UNIT FORCED OUTAGE RATE	0.0	2.7	5.4
24. SHUTDOWNS SCHEDULED OVER THE NEXT SIX MONTHS (TYPE, DATE AND DURATION): None			
25. IF UNIT IS SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START-UP: N/A			

Note: Line 21 "Cumulative" factor no longer uses a weighted average.  
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UNIT SHUTDOWNS AND POWER REDUCTIONS

COCKET NO. 50-318

UNIT NAME Calvert Cliffs-U2

DATE Sept. 15, 1988

COMPLETED BY C. Behnke

TELEPHONE (301)260-4871

REPORT MONTH August 1988

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
N/A									THERE WERE NO SHUTDOWNS OR SIGNIFICANT REDUCTIONS.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> 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)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Other (Explain)

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

<sup>5</sup> Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

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Docket No. 50-318  
 Calvert Cliffs Unit No. 2  
 September 15, 1988  
 Completed by C. Behnke  
 Telephone: (301) 260-4871

AUGUST 1988

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Day	Average Daily Power Level (MWe-Net)	Day	Average Daily Power Level (MWe-Net)
1	834	17	779
2	834	18	780
3	834	19	775
4	834	20	761
5	833	21	660
6	832	22	709
7	829	23	712
8	830	24	776
9	830	25	816
10	828	26	820
11	828	27	831
12	829	28	833
13	827	29	832
14	821	30	832
15	735	31	831
16	774		



DOCKET # 50-318  
CALVERT CLIFFS - UNIT 2  
September 15, 1988

SUMMARY OF OPERATING EXPERIENCE

August 1988

Unit 2 began the month at full power (100%), 835 MWe Net. Maximum operating output decreased to a minimum of 815 MWe Net.

On August 15, condenser inlet waterbox fouling forced a reduction. We operated (as necessary) to reduce power and clean grass from waterbox inlets and Service Water Heat Exchangers (from 2200 until 0900) each day until August 26.

On August 15 while reduced, #6 CEA was dropped and subsequently recovered. On August 22 while reduced, condenser vacuum degraded @ 1835, so further reduction to 67% was necessary. Vacuum was subsequently recovered @ 1855.

The unit ended this reporting period @ 100% power on August 31.

Sept. 6, 1988

REFUELING INFORMATION REQUEST

1. Name of facility: Calvert Cliffs Nuclear Power Plant, Unit No. 2.
2. Scheduled date for next refueling shutdown: April 1, 1989
3. Scheduled date for restart following refueling: May 16, 1989
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 changes will be such as to allow operation of the plant with a reload batch and reshuffled core at a higher enrichment.

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

February 9, 1989 ( reload submittal )  
June 9, 1988 ( enrichment submittal )

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 and four fuel assemblies containing an alternative burnable absorber.

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

(a) 217 (b) 1331

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) 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.

April, 1991