

Monthly Statistical Report

For November 1988

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PDR ADOCK 05000029  
R PDC

OPERATING DATA REPORT

Docket No.: 50-309  
 Date: 03/Dec/88  
 Completed By: J. M. TAYLOR  
 Telephone: 207-882-6321

- 1. Unit Name..... Maine Yankee
- 2. Reporting Period..... November 1988
- 3. Licensed Thermal Power (MWt)..... 2630
- 4. Nameplate Rating (Gross MWe)..... 864
- 5. Design Electrical Rating (Net MWe)..... 825
- 6. Maximum Dependable Capacity (Gross MWe)..... 850
- 7. Maximum Dependable Capacity (Net MWe)..... 810

8. If Changes in Capacity Ratings (Items Number 3-7)

Since Last Report, Give Reasons:

NO CHANGES

9. Power Level to Which Restricted, if Any (Net MWe) \_\_\_\_\_

10. Reasons for Restrictions, if Any:

	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
11. Hours In Reporting Period	<u>720.00</u>	<u>8,040.00</u>	
12. Number of Hours Reactor Was Critical.....	<u>0.00</u>	<u>6,777.29</u>	<u>112,630.61</u>
13. Reactor Reserve Shutdown Hours.....	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-line..	<u>0.00</u>	<u>6,655.71</u>	<u>109,410.79</u>
15. Unit Reserve Shutdown Hours.....	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
16. Gross Thermal Energy Generated (MWH).....	<u>0.00</u>	<u>16,488,693.00</u>	<u>250,849,024.00</u>
17. Gross Electrical Energy Generated (MWH).....	<u>0.00</u>	<u>5,124,660.00</u>	<u>82,013,390.00</u>
18. Net Electrical Energy Generated (MWH).....	<u>0.00</u>	<u>4,946,639.00</u>	<u>78,417,611.00</u>
19. Unit Service Factor.....	<u>0.00</u>	<u>82.78</u>	<u>77.76</u>
20. Unit Availabilty Factor..	<u>0.00</u>	<u>82.78</u>	<u>77.76</u>
21. Unit Capacity Factor (Using MDC Net).....	<u>0.00</u>	<u>75.96</u>	<u>70.28</u>
22. Unit Capacity Factor (Using DER Net).....	<u>0.00</u>	<u>74.58</u>	<u>68.52</u>
23. Unit Forced Outage Rate..	<u>0.00</u>	<u>3.23</u>	<u>7.08</u>

24. Shutdowns Scheduled Over Next 6 Months:

Date	Type	Duration
<u>10/15/88</u>	<u>REFUELING OUTAGE</u>	<u>8 WEEKS</u>

25. If Shutdown at End of Report Period, Estimated Date of Startup: 12/14/88

Docket No: 50-309  
Unit Name: Maine Yankee  
Date: 03/Dec/88  
Completed By: K.L. Embry  
Telephone: 207-882-6321

Report Month: November, 1988

NARRATIVE SUMMARY OF OPERATING EXPERIENCES

The plant was shutdown at the beginning of the month for reactor refueling.

The plant was shutdown the entire month.

AVERAGE DAILY UNIT POWER LEVEL  
FOR NOVEMBER 1988

Docket No.: 50-309  
 Unit: Maine Yankee  
 Date: 03/Dec/88  
 Completed By: J. M. TAYLOR  
 Telephone: 207-882-6321

Day	Avg. Daily Power Level (MWe-Net)	Day	Avg. Daily Power Level (MWe-Net)
1	0	16	0
2	0	17	0
3	0	18	0
4	0	19	0
5	0	20	0
6	0	21	0
7	0	22	0
8	0	23	0
9	0	24	0
10	0	25	0
11	0	26	0
12	0	27	0
13	0	28	0
14	0	29	0
15	0	30	0

UNIT SHUTDOWNS AND POWER REDUCTIONS  
FOR NOVEMBER 1988

Docket No.: 50-309  
Unit: Maine Yankee  
Date: 03/Dec/88  
Completed By: J. M. TAYLOR  
Telephone: 207-882-6321  
Page: 1 of 1

Number	30-88-10		
Date	881014		
Type (1)	S		
Duration (Hours)	720		
Reason (2)	C		
Method (3)	1		
LER #	N\A		
System Code (4)	ZZ		
Component Code (5)	ZZZZZZ		
Cause and Corrective Action	Shutdown for refueling outage		

1. TYPE:  
(F)orced  
(S)cheduled

2. REASON  
A-Equipment Failure  
B-Maintenance or Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training &  
License Examination

2. REASON: (cont)  
F-Administrative  
G-Operational Error  
H-Other (Explain)

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

4. SYSTEM CODE:  
Exhibit G-Instructions  
for Preparation of Data  
Entry Sheets for  
Licensee Event Report  
(LER) File (NUREG.0161)

5. COMPONENT CODE:  
Exhibit I-Same source  
as above.

PERFORMANCE DATA

Period Hours = PH =  Unit Rating WNC(Normal) =  MWe Net

Unit Outage Hours	(A) Planned 720.0	(B) Maintenance 0.0	(C) Forced 0.0	(D) Extended 0.0	(E) Reserve 0.0
Partial Reduction MW-hrs:	(F) Unplanned 0.0	(G) Seasonal 0.0	(K) Planned 0.0	Planned Outage Start Date October 15, 1988	
	(H) Gross Gen. (MWh) 0.0	(I) Net Gen. (MWe) 0.0			Fuel Cost 158,921.0

CALCULATED DATA

Service Hours = SH = PH - (a+b+c+d+e) =	<input type="text" value="720.0"/>	-	<input type="text" value="720.0"/>	=	<input type="text" value="0.0"/>
Available Hours = AH = SH + e =	<input type="text" value="0.0"/>	+	<input type="text" value="0.0"/>	=	<input type="text" value="0.0"/>
Equivalent Unit Derated Hours = EUNDH = (f+k) ÷ rating	<input type="text" value="0.0"/>	÷	<input type="text" value="855.0"/>	=	<input type="text" value="0.0"/>
Equivalent Seasonal Derated Hours = ESDH = g ÷ rating =	<input type="text" value="0.0"/>	÷	<input type="text" value="855.0"/>	=	<input type="text" value="0.0"/>
Thermal KBTU's = h x 3.4128 =	<input type="text" value="0.0"/>	x	<input type="text" value="3.4128"/>	=	<input type="text" value="0.0"/>

CALCULATED PERFORMANCE FACTORS

AVAILABILITY FACTOR = AF = (Available Hours ÷ Period Hours) x 100 =

AF = (AH ÷ PH) x 100 =  ÷  x 100 =  %

EQUIVALENT AVAILABILITY FACTOR = EAF =  $\frac{\text{Available Hours} - (\text{Equivalent Derated Hours} + \text{Equivalent Seasonal Hours})}{\text{Period Hours}} \times 100 =$

EAF =  $\frac{AH - (EUNDH + ESDH)}{PH} \times 100 = \frac{\text{0.0} - (\text{0.0} + \text{0.0})}{\text{720.0}} \times 100 = \text{0.0} \%$

CAPACITY FACTOR = CF =  $\frac{\text{Net Generation}}{\text{Period Hours} \times \text{Unit Rating}} \times 100 =$

CF =  $\frac{i}{PH \times \text{Rating}} \times 100 = \frac{\text{0.0}}{\text{720.0} \times \text{855.0}} \times 100 = \text{0.0} \%$

FORCED OUTAGE RATE = FOR =  $\frac{\text{Forced Outage Hours}}{\text{Forced Outage Hours} + \text{Service Hours}} \times 100 =$

FOR =  $\frac{C}{C + SH} \times 100 = \frac{\text{0.0}}{\text{0.0} + \text{0.0}} \times 100 = \text{0.0} \%$

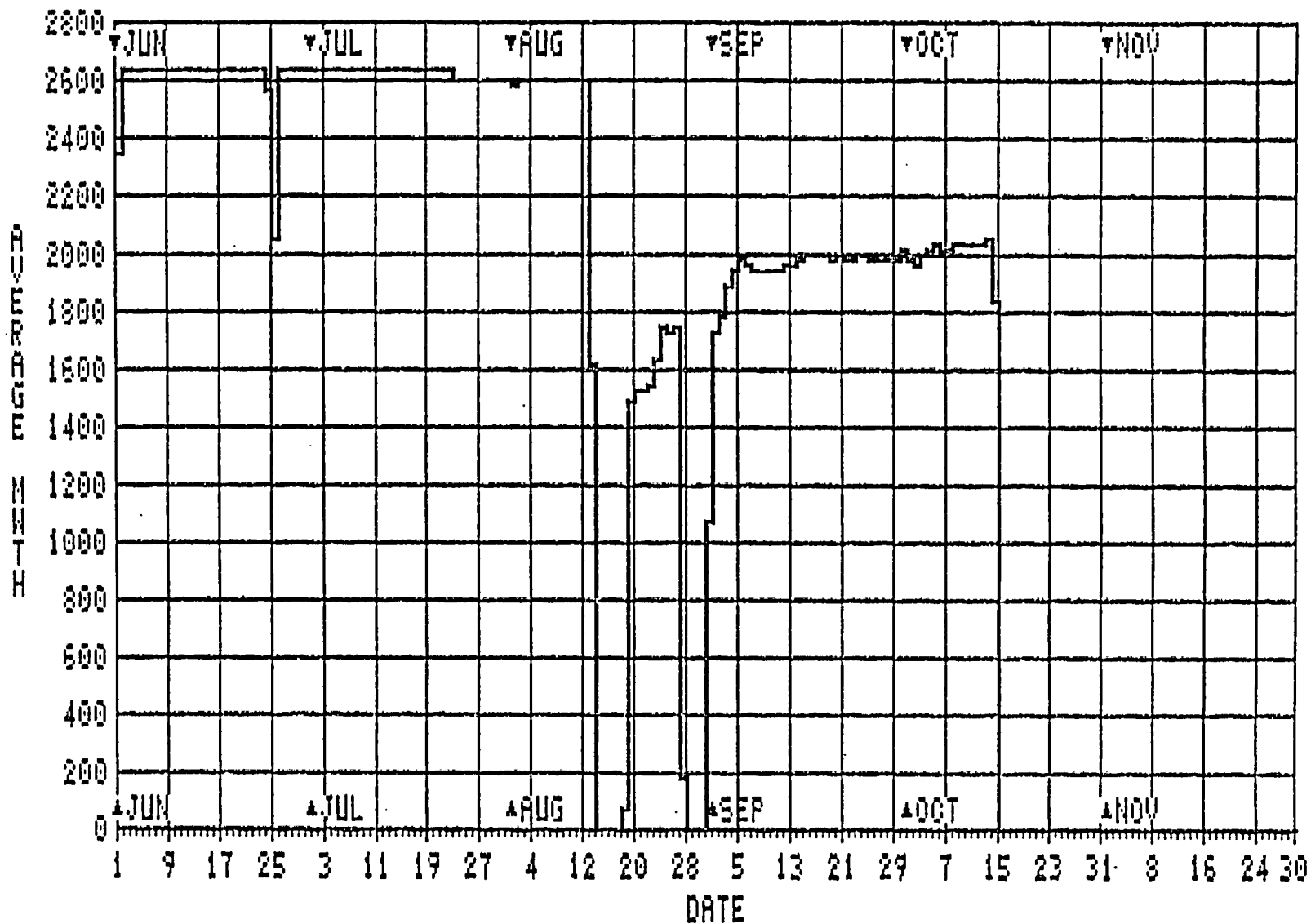
UNIT HEAT RATE = HR =  $\frac{\text{Fuel Energy Consumed (MWh)} \times \text{Conversion (BTU)}}{\text{Net Generation (MWe)}} =$

HR =  $\frac{\text{KBTU's}}{i} = \frac{\text{0.0}}{\text{0.0}} = \text{0.0} \frac{\text{BTU}}{\text{KW-HR}}$

Prepared by: *Samuel L. Jones* Date: 12/8/88

# Maine Yankee Atomic Power Co.

## AVERAGE DAILY POWER LEVEL (MWH)



MAINE YANKEE

MONTH November 1988

LOAD REDUCTION TIME DURATION

DAY	TIME START DOWN	% PWR	TIME STAB- ILIZED	% PWR	TIME START UP	TIME STAB- ILIZED	% PWR	TOTAL TIME (HRS)	REASON
1			0000	0					The plant was shutdown for the
2									entire month for reactor refuel-
3									ing.
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
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19									
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22									
23									
24									
25									
26									
27									
28									
29									
30									



MONTH November 1988

OUTAGE & AVAILABILITY TIMES

DAY	REASON	TIME RX SUBCRI	TIME RX CRIT.	TIME RX NOT AVAIL.	TIME RX AVAIL.	TIME UNIT OFFGRI	TIME UNIT PHASED
1	The plant was shutdown for the						
2	entire month for reactor refueling.						
3							
4							
5							
6							
7							
8							
9							
10							
11							
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26							
27							
28							
29							
30							

MAINE YANKEE ATOMIC POWER COMPANY  
WISCASSET, MAINE  
MONTHLY REPORT FOR NOV. 1988

* ELECTRIC LOG *	<u>MONTH</u>	<u>YEAR</u>	<u>TO DATE</u>
GROSS ELECTRIC GENERATION (MWH)	0.0	5124660.0	82013390.0
STATION SERVICE (AUX. TRANS.) (MWH)	1190.00	7203.00	367828.00
STATION SERVICE (STA. TRANS.) (MWH)	0.00	178021.00	3595782.00
NET ELECTRIC GENERATION (MWH)	0.00	4946639.00	78417611.00
ON LINE TIME (HOURS)	0.00	6655.73	109410.78
SHUT DOWN TIME (HOURS)	720.00	1384.27	31376.53
PLANT CAPACITY FACTOR (DESIGN NET)	0.00	74.58	68.52
* PLANT PERFORMANCE LOG *	<u>MONTH</u>	<u>YEAR</u>	<u>S.C.O.</u>
NET PLANT EFFICIENCY (PERCENT)	*0000000.000	30.000	31.268
NET PLANT HEAT RATE (BTU/KWH)	0.00	11373.80	10912.61
PLANT THERMAL CAPACITY (PERCENT)	0.000	77.978	70.097
REACTOR PLANT AVAILABILITY (PERCENT)	0.000	85.984	84.467
PLANT AVAILABILITY (PERCENT)	0.000	82.783	77.757
* NUCLEAR LOG *	<u>MONTH</u>	<u>YEAR</u>	<u>TO DATE</u>
GROSS THERMAL GENERATION (MWH)	0.0	16488693.0	250849024.0
STARTUPS	0	3	179
HEATUPS	0	0	40
SCRAMS	0	2	108
COOLDOWNS	0	1	40
SHUTDOWNS	0	4	176
FULL LOAD REJECTIONS	0	2	31
AVERAGE CORE BURNUP (MWD/TON)	0.000	8435.020	12666.051*

S.C.O. = VALUE FROM THE START OF COMMERCIAL OPERATION, 12/28/1972 AT 0000  
\* = VALUE FOR THE PRESENT CORE

MAINE YANKEE ATOMIC POWER - DAILY NUMBERS LOG

NOV. 1988

MWTH = MEGAWATT THERMAL HOURS  
 RA = REACTOR AVAILABLE TIME  
 TC = TIME CRITICAL IN HOURS  
 SD = SHUTDOWNS  
 SU = STARTUPS  
 S = SCRAMS  
 CD = COOLDOWNS  
 HU = HEATUPS  
 FLR = FULL LOAD REJECTIONS  
 MWTHPC = MEGAWATT THERMAL HOURS FOR PRESENT CORE  
 BURNPC = BURNUP FOR PRESENT CORE  
 EFPHTD = EQUIVALENT FULL POWER HOURS TO-DATE

DATE	MWTH	RA	TC	SD	SU	S	CD	HU	FLR	MWTHPC	BURNPC	EFF	D
11/ 1/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 2/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 3/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 4/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 5/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 6/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 7/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 8/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/ 9/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/10/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/11/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/12/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/13/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/14/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/15/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/16/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/17/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/18/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/19/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/20/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/21/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/22/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/23/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/24/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/25/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/26/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/27/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/28/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/29/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	
11/30/1988	0.0	0.0	0.0	0	0	0	0	0	0	24759471.0	12666.1	97898.0	