MAINE YANKEE NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 80-05

FOR THE MONTH OF MAY, 1980

OPERATING DATA REPORT

DOCKET NO. 50-309

BATE 800612

F. C. Beers

TELEPHONE 617-366-9011 X2215

	OPERATING STATUS				
1	Unit Name: Maine Yan	nkee	Notes Power level restricted by steam flow through the		
	Reporting Period: May, 1980	0			
	Licensed Thermal Power (MWt):	0100	LP turbines.		
	Nameplate Rating (Gross MWe):	061			
	Design Electrical Rating (Net MWe):	025			
	Maximum Dependable Capacity (Gross MV	050			
	Maximum Dependable Capacity (Net MWe	010			
8.	If Changes Occur in Capacity Ratings (Item	ns Number 3 Through 7) Sir	nce Last Report, Give F	Reasons:	
	Power Level To Which Restricted, If Any (Reasons For Restrictions, If Any:		MWe (∿97%)		
		This Month	Yrto-Date	Cumulative	
1	Hours In Reporting Period	744	3,647,00		
	Number Of Hours Reactor Was Critical	640.03	2,120.53	53,330.53	
	Reactor Reserve Shutdown Hours	0.00	0.00	0.00	
	Hours Generator On-Line	631.00	1,981.06	51,498.87	
	Unit Reserve Shutdown Hours	0.00	0.00	0.00	
	Gross Thermal Energy Generated (MWH)	1.449.738.00	4,187,013,00	109,429,096.00	
	Gross Electrical Energy Generated (MWH)	483,080.00	1,384,450.00	35,957,630.00	
8.	Net Electrical Energy Generated (MWH)	459,925.00	1,315,200.00	34,142,387.00	
9.	Unit Service Factor	84.81	54.32	77.71	
0.	Unit Availability Factor	84.81	54.32	77.71	
1.	Unit Capacity Factor (Using MDC Net)	76.32	44.52	66.84	
2.	Unit Capacity Factor (Using DER Net)	74.93	43.71	64.59	
	Unit Forced Outage Rate	3.62	4.45	6.80	
4.	ShutJowns Scheduled Over Next 6 Months	(Type, Date, and Duration	of Fach):		
5.	If Shut Down At End Of Report Period, Est	timated Date of Startup:	June 13, 198	30	
	Units In Test Status (Prior to Commercial C		Forecast	Achieved	
	INITIAL CRITICALITY				

COMMERCIAL OPERATION

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-309

UNIT Maine Yankee

DATE 800612

COMPLETED BY F. C. Beers

TELEPHONE 617-366-9011 X2215

AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
713	17	760
701	18	760
26	19	236
0	20	745
138	21	748
662	22	765
808	23	310
818	24	485
819	25	801
819	2.	806
818	27	675
818	28	671
817	29	669
817	30	403
796	31	0
758		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS AND POWER REDUCTIONS

50-309 DOCKET NO. UNIT NAME DATE COMPLETED BY

Maine Yankee 800612 _ F. C. Beers TELEPHONE __617-366-9011 X2215

REPORT MONTH May, 1980

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		T							rage 1 of 2
No.	Date	Type1	Duration (Hours)	Reason?	Method of Shutting Down Reactor?	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective Action to Prevent Recurrence
L.R. to 75%	4-24-80 thru 5-2-80	S	208.67	Н	1	N/A	RC	ZZZZZ	noad reduction due to increasing core D/P. NH ₄ OH was added to help remove the apparent buildup of crud on core surfaces.
5-80-5	5-3-80	S	57.58	Н	1	N/A	RC	ZZZZZ	Plant shut down and cooldown for core crud cleanup. $\mathrm{H_2O_2}$ was added to attempt to remove the apparent buildup of crud on core surfaces.
L.R. to 90%	5-15-80 thru 5-19-80	S	84.92	Н	1	N/A	RC	ZZZZZ	Load reduction to reduce heat flux in consideration to increasing core D/P.
6-80-5	5-19-80	F	9.25	A	3	N/A	IA	INSTRU-X	Spurious electrical spike resulted in TM/LP trip on RPS channels C & D. Investigation did not reveal cause of spikes.

F: Forced

S: Scheduled

Reason:

A-Equipment Failure (Explain) B-Maintenance of 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 Scrain.

3-Automatic Scrain.

4-Other (Explain)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

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Exhibit 1 - Same Source

(9/17)

UNIT SHUTDOWNS AND POWER REDUCTIONS

50-309 DOCKET NO. Maine Yankee UNIT NAME 800612 DATE COMPLETED BY F. C. Beers

TELEPHONE _617-366-9011 X2215

REPORT MONTH _ May, 1980

						Page 2 of 2			
No.	Date	Type1	Duration (Hours)	Reason?	Method of Shutting Down Reactor3	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective Action to Prevent Recurrence
7-80-5	5-23-80 5-24-80	F	14.47	A	3	N/A	IA	INSTRU-X	Spurious electrical spike results in TM/LP trip on RPS channels C & D. Investigation indicates possible interaction from the annunciator test circuitry.
L.R. to 80%	5-27-80 thru 5-30-80	F	88.30	Н	1	N/A	RC	ZZZZZ	Load reduction to reduce heat flux in consideration to increased core D/P.
8-80-5	5-30-80 thru 6-1-80	S	31.20 plus	Н	1	N/A	RC	ZZZZZ	Shutdown to accomplish chemical clean of the RCS to remove core crud.

F: Forced S: Scheduled

Reason:

A-Equipment Failure (Explain)

B-Maintenance of Test

C-Refueling

D-Regulatory Restriction

E-Operator Training & License Examination

F-Administrative

G Operational Litor (Explain)

H-Other (Explain)

3 Method:

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Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit 1 - Same Source

(17/17)

DOCKET NO. 50-309

UNIT Maine Yankee

DATE 800612

COMPLETED BY F. C. Beers

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REPORT MONTH May, 1980

SUMMARY OF OPERATING EXPERIENCES

At the beginning of the month, the plant was operating at 85% of full load due to an increase in the pressure drop across the core. This increase in D/P is believed to be caused by crud buildup on core surfaces. On May 3rd the plant was shut down and the reactor coolant system cooled down to facilitate core crud cleanup operations by the addition of hydrogen peroxide. Following the cleanup operations the plant was brought back on-line and returned to full power.

On May 19th and again on May 23rd, the plant experienced spurious TM/LP trips due to electrical spikes which affected the temperature inputs to the TM/LP circuitry. The cause of the electrical spikes was traced back to the test circuitry of one section of MCB annunciators. The output spike has been filtered out, but the root cause of the spike generation has not yet been determined. The plant returned to full load following both these trips.

On May 27th a load reduction to 80% was performed in response to the again increasing core D/P. The load reduction was to reduce the heat flux in the core pending further evaluation of the crud buildup situation. The decision was made to place the plant in the hot shutdown condition over the upcoming weekend and perform additional core crud cleanup using a hydrazine solution instead of hydrogen peroxide. By using hydrazine, the plant would not have to be cooled down.

On May 30th the plant was taken off the line and core cleanup operations commenced. At the end of the month, core crud cleanup operations were underway with the plant scheduled to be brock on-line on June 1st.