VERMONT YANKEE NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 81-12

FOR THE MONTH OF DECEMBER, 1981

## OPERATING DATA REPORT

DOCKET NO. 50-271

DATE 820112

COMPLETED BY F. J. Burger (802)257-7711

Ext 137

			240							
	OPERATING STATUS	No	otes							
1.	Unit Name: Vermont Yankee									
	Reporting Period: December 1981									
	Licensed Thermal Power (MWE): 1593									
	Nameplate Rating(Gross MWe):540									
	Design Electrical Rating(Net MWe): 514(c									
6.	Maximum Dependable Capacity(Gross MWe):	THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME								
7.	Maximum Dependable Capacity(Net MWe):	504		Civo Possoni						
8.	If Changes Occur in Capacity Ratings(Items Number 3 Through 7)Since Last Report, Give Reasons									
-										
9.	Power Level to Which Restricted, If Any (N	et MWe):								
	Reasons For Restrictions, If Any:									
			A							
		This Month	Yr-to-Date	Cumulative						
11	House To Penerting Poriod	744.00	8760.00							
	Hours In Reporting Period Number Of Hours Reactor Was Critical	651.42	7542.37	65,078.15						
	Reactor Reserve Shutdown Hours	0.00	0.00	0.00						
	Hours Generator On-Line	576.73	7409.61	63,011.19						
	Unit Reserve Shutdown Hours	0.00	0.00	0.00						
	Gross Thermal Energy Generated (MWH)	806,141.50	11,312,243.50	89,915,760.50						
	Gross Electrical Energy Generated (MWH)	267,155.00	3,759,124.00	29,871,971.00						
	Net Electrical Energy Generated (MWH)	256,031.00	3,568,707,00	28,316,286.00						
	Unit Service Factor	77.52	84.58	77.47						
		77.52	84.58	77.47						
	Unit Availability Factor	68.28	80.83	69.07						
	Unit Capacity Factor (Using MDC Net)	66.95	79.26	67.73						
	Unit Capacity Factor (Using DER Net)	15.95	2.78	6.80						
	Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (T		ration of Each):							
24.	Shutdowns Scheduled Over Next o Hollens(1)	урс, Басс,								
25	If Shut Down At End Of Report Period, Es	timated Date of S	Startup:							
	Units In Test Status(Prior to Commercial		Forecast	Achieved						
.0.	INITIAL CRITICALITY									
	INITIAL ELECTRICITY									
	COMMERCIAL OPERATION									

## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO	50-271
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AY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
	0	17.	518
	0	18.	518
	28	19.	519
	61	20.	497
	29	21	519
	0	22	520
	82	23	520
	295	24	482
	352	25	520
	396	26	482
	481	27	0
	517	28	70
	511	29	365
	518	30	398
	518	31	488
	518		

#### 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

REPORT MONTH December 1981

DOCKET NO 50-271 Vermont Yankee UNIT NAME 820112 DATE F. J. Burger COMPLETED BY (802) 257-7711 ext 137 TELEPHONE

No.	Date	Typed 1	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting3 Down Reactor	License Event Report#	System Code	Component Code 5	Cause & Corrective Action to Prevent Recurrence
81-19 (cont)	811016	S	57.80	С	N/A	N/A	ZZ	ZZ	Refueling outage in progress
81-20	811203	F	17.38	A	N/A	N/A	НА	TURBIN	Turbine rotor out of balance. Rebalanced rotor.
81-21	811205	F	56.90	A	2	N/A	СВ	PUMPXX	Shutdown to replace degraded reactor recirc- culation pump seal.
81-22	811209	S	0	В	4 (Power Reduct)	N/A	RB	CONROD	Power reduction for control rod pattern adjustment.
81-23	811220	S	0	В	4 (Power Reduct)	N/A	HA RB	TURBIN	Power reduction for main turbine and control rod surveillance

F: Forced S: Scheduled

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)

Method:

1- Manual

2- Manual Sciam

3- Automatic Scram

4- Other (Explain)

Exhibit G- Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

Exhibit I - Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1981

DOCKET NO 50-271
UNIT NAME Vermont Yankee
DATE 820112
COMPLETED BY F.J. Burger
TELEPHONE (802) 257-7711 ext 137

Cause & Corrective Action to Prevent Recurrence	Code 5	System Code	License Event Report#	Method of Shutting <sub>3</sub> Down Reactor	Reason <sup>2</sup>	Duration (Hours)	Typed 1	Date	No.
Power reduction to precoat the "C" condensate demineralizer. Spare demineralizer already out of service	DEMINX	HG	N/A	4 (Power Reduct)	A	0	F	811224	81-24
Main turbine pressure regulator failed resulting in a high flux scram. Failure caused by sticky mechanical linkage which was cleaned, lubricated, and adjust	MECFUN	НВ	N/A	3	A	35.18	F	811226	81-25
Power reduction for a control rod pattern adjustment and maintenance of the "B" reactor recirculation pump speed control circuit.	CONROD	RB CB	N/A	4 (Power Reduct)	В	0	S	811230	81-26

F: Forced
S: Scheduled

Reason:

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)

Exhibit G- Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

Exhibit I - Same Source

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## SAFETY RELATED MAINTENANCE

1 of 3

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	NATURE OF	LER OR OUTAGE	MALFUNCTI	ON		
EQUIPMENT	MAINTENANCE	NUMBER	CAUSE	RESULT	CORRECTIVE ACTION	
UPS System Alarms	Corrective MR 79-0873	N/A	Incorrect Wiring at Annunciator Panel	Wrong Alarms Annuciate	Corrected Wiring Errors	
CAD Isolation Valve FSO 109-75-D1	Corrective MR 81-0853	N/A	Dirt	Valve Would Not Shut	Disassembled and Cleaned Valve	
Recirc Sample Valve, FCU-40, Hanger	Corrective MR 81-1217	N/A	Loose Clevis	Hanger Not Sup- porting Valve	Tightened and Anchored Clevis to Valve	
RWCU Valve V12-32B	Corrective MR 81-1456	N/A	Worn Packing	Leakage	Tightened Packing	
RWCU Regenerative Heat Ex- change E-15-1C Inter Connecting Piping Construction Leak Off	Corrective MR 81-1458	N/A	Unknown	Leakage	Plugged Leak Off	
RHR Heat Exchanger E-14-1B	Corrective MR 81-1459	N/A	Worn Gasket	Leakage	Replaced Gasket	
Core Spray Valve V14-11A Motor Operator Breaker	Corrective MR 81-1460	LER 81-35/3L	Fault/ Breaker	Breaker Tripped During Operation		
Drywell Pressure Indicator PI-16-19-12A	Corrective MR 81-1468	N/A	Failed Amplifier	Erroneous Readin	g Replaced Amplifier	

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#### SAFETY RELATED MAINTENANCE

2 NATURE OF MALFUNCTION LER OR OUTAGE CAUSE RESULT CORRECTIVE ACTION EQUIPMENT MAINTENANCE NUMBER Reactor Recirculation Pump Corrective N/A Faulty Mechanical Rebuilt seal High Seal Temp-P18-1A MR 81-1470 Seal erature Drywell Personnel Access N/A Failed Gasket Replaced Gasket Corrective Air Leakage Hatch Outer Door MR 81-1475 Air Leakage Adjusted Seal, Calked Reactor Building Personnel Corrective N/A Loose Seal Air Lock Outer Door MR 81-1485 Door Casing Adjusted Packing. Service Water Pump Corrective N/A Worn Packing Leakage P7-1B MR 81-1490 Service Water Pump N/A Adjusted Packing Corrective Worn Packing Leakage MR 81-1491 P7-1D Adjusted Packing N/A Leakage Reactor Recirc Valves Corrective Worn Packing V2-304A-C and V2-98A, Main MR 81-1498 Steam Valves V60-72B-F and H Worn threads. RHR Hanger H-192 Bolting Corrective Construction Replaced Bolting N/A Minimal Thread MR 81-1521 Engagement Adjusted Packing N/A Worn Packing Leakage RHR Service Water Valve Corrective MR 81-1530 V70-89B

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## SAFETY RELATED MAINTENANCE

	NATURE OF	LER OR OUTAGE	MALFUN	CTION		
EQUIPMENT	MAINTENANCE	NUMBER	CAUSE	RESULT	CORRECTIVE ACTION	
SLC Valve V11-25	Corrective MR 81-1572	N/A	Corroded Seat	Valve Leakage	Lapped Seating Surfaces	
ervice Water Pump 7-1C	Corrective MR 81-1582	N/A	Worn Packing	Leakage	Adjusted Packing	
RWCU Valve V12-19B	Corrective MR 81-1604	N/A	Worn Packing	Leakage	Adjusted Packing	
RHR Service Water Pump P8-1A Circuit Breaker	Corrective MR 81-1612	LER 81-37/3L	Worn Bushings	Breaker Trips Upon Pump Start	Replaced Bushings	
, "						

DOCMET NO. 50-271

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## REPORT MONTH December 1981

## SUMMARY OF OPERATING EXPERIENCES

#### Highlights

Vermont Yankee operated at 68.02% of rated thermal power for the month. Gross electrical generation was 267,155 MWH or 66.50% of design electrical capacity.

#### Operating Summary

The following is a chronological description of plant operations including other pertinent items of interest for the month:

- 12/1/81 At the beginning of the reporting period the plant was shut down for refueling.

  At 1949 hours a reactor start up was initiated.
- 12/3/81 At 2010 hours, after completing main turbine overspeed testing, the main turbine was shut down for rotor balancing.
- 12/4/81 At 1333 hours the main turbine was phased into the grid.
- 12/5/81 At 0220 hours a reactor shutdown was initiated to replace a degraded seal in the "A" reactor recirculation pump.
- 12/7/81 At 0152 hours a reactor start up and power ascension was initiated
- 12/9/81 At 1300 hours a power reduction was initiated for a control rod pattern adjustment.

  At 1730 hours a return to full power initiated.
- 12/20/81 At 0200 hours a power reduction was initiated for control rod and main turbine surveillance testing.

  At 0600 hours a return to full power was initiated.
- 12/24/81 At 0100 hours a power reduction was initiated to remove the "C" condensate demineralizer from service for precoating. The spare demineralizer was already out of service.

  At 0610 hours a return to full power was initiated.
- 12/26/81 At 1944 hours the plant was shutdown by a reactor high flux scram caused by a faulty main turbine pressure regulator.
- 12/27/81 At 2035 hours a reactor start up and return to full power was initiated.

# Operating Summary (continued)

- 12/30/81 At 0900 hours a power reduction was initiated for a control rod pattern adjustment and maintenance of the "B" reactor recirculation pump speed control circuit.

  At 1030 hours a return to full power was initiated.
- 12/31/81 At the end of the reporting period the plant was operating at 99.7% of rated thermal power.