

CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

HADDAM, CONNECTICUT

MONTHLY OPERATING REPORT NO. 82-9

FOR THE MONTH OF

SEPTEMBER 1982

8211110339 821013  
PDR ADOCK 05000213  
R PDR

## PLANT OPERATIONS

The following is a summary of plant operations for the month of September, 1982:

The unit operated at 100% power until September 12 when load was reduced for a short period of time to conduct routine turbine stop valve testing.

A load reduction to remove the plant from service was commenced on September 17 at 1630 hours to correct main transformer moisture inleakage. While the unit was off line, the B station battery was replaced and maintenance was performed on the No. 1 main steam trip valve.

The unit initially phased on line September 25 at 1908 but the turbine tripped at 2011 (auto stop oil trip). Following the completion of turbine trip tests while off line, the turbine tripped again at 2141.

After verifying simulated turbine overspeed trip setpoint, the unit was phased on line at 2316 on September 25, and reached full power at 0237 on September 27.

The plant reduced power for a short period of time on September 28 to plug condenser tube leaks. The unit remained at full power throughout the rest of the month of September.

SYSTEM OR COMPONENT	I&C September Report for 1982 MALFUNCTION		EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	CAUSE	RESULT			
4 Feedwater Regulating Valve Control Solenoid (SOV)	Resilient seats stick due to being energized for long periods of time	Valve should not close when turbine tripped	NONE	Ordering special SOVs designed for long term steady state operations	NONE
Master Cyclor	Excessive use of Master Cyclor causing a relay to hang up	Unable to drive rods	NONE	Re-wet the mercury wetted relay contacts	NONE
Steam Line Break #3 Indicator	Normal end of life of interior component (slide wire)	Unreliable steam line break indication. Redundant data available from data logger	NONE	Replaced slidewire	Inserted trip signal into loop #3 steam line break

SYSTEM OR COMPONENT	Maintenance Report for Sept. 1982 MALFUNCTION		EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	CAUSE	RESULT			
#1 Main Steam trip valve	Tail link to link bore not concentric with rock shaft.  <u>Reason:</u>  Tail link was distorted from prior maint.	Valve disk would not trav- el to full open during valve test.	NONE	Valve disassembled and tail link was repaired	N/A
#B Battery	Leaking cell  <u>Reason:</u>  Age	Inoperative battery	NONE	Installed new battery	Reactor in hot standby
"A" Aux. Feed pump steam control valve	Leakage past valve seat  <u>Reason:</u>  Normal wear	Excessive leakage thru valve	NONE	Rebuilt valve	N/A
#4 Feed Reg. Valve	Leakage past valve seat  <u>Reason:</u>  Valve plug cracked	Valve would not function proper- ly	NONE	Installed new plug & stem	N/A

\*\*\*\*\*NRC OPERATING STATUS REPORT COMPLETED BY REACTOR ENGINEERING\*\*\*\*\*

1. DOCKET...50-210	OPERATING STATUS	*****
2. REPORTING PERIOD...SEPTEMBER 1982	OUTAGE + ON-LINE HR... 195.1 + 524.9 = 720.0	* CONNECTICUT YANKEE *
3. UTILITY CONTACT.....BOB EPPINGER (203) 267-2556 EX274		* HADDAM NECK PLANT *
4. LICENSED THERMAL POWER(MWT).....1825		*****
5. NAMEPLATE RATING(GROSS MWE).....667 X 0.9 = 600.3		
6. DESIGN ELECTRICAL RATING(NET MWE).....582		
7. MAXIMUM DEPENDABLE CAPACITY(GROSS MWE).....582		
8. MAXIMUM DEPENDABLE CAPACITY(NET MWE).....555		
9. IF CHANGES OCCUR ABOVE, SINCE LAST REPORT, GIVE REASONS.... N/A		

10. POWER LEVEL TO WHICH RESTRICTED. IF ANY(NET MWE)..... N/A

11. REASON FOR RESTRICTION. IF ANY..... N/A

	MONTH	YR. TO DATE	CUMULATIVE TO DATE
12. HOURS IN REPORTING PERIOD	720.0	6551.0	129287.0 *
13. NUMBER OF HOURS THE REACTOR WAS CRITICAL	720.0	6510.0	112061.5 *
14. REACTOR RESERVE SHUTDOWN HOURS	195.1	446.0	1638.5 *
15. HOURS GENERATOR ON LINE	524.9	6038.7	106941.7 *
16. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	373.7
17. GROSS THERMAL ENERGY GENERATED (MWH)	916659.	10721960.	185371216.
18. GROSS ELECTRICAL ENERGY GENERATED (MWH)	296932.	3514015.	60887492.
19. NET ELECTRICAL ENERGY GENERATED (MWH)	280707.	3345447.	57925899.
20. UNIT SERVICE FACTOR	72.9	92.2	82.7 *
21. UNIT AVAILABILITY FACTOR	72.9	92.2	83.0 *
22. UNIT CAPACITY FACTOR (USING MDC NET)	70.2	92.0	82.5 *
23. UNIT CAPACITY FACTOR (USING DER NET)	67.0	87.7	76.3 *
24. UNIT FORCED OUTAGE RATE	27.1	7.8	6.6 *
25. UNIT FORCED OUTAGE HOURS	195.1	512.3	7570.6 *

\*SINCE COMMERCIAL OPERATION 1/1/68

26. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH)...

REFUELING ESTIMATED FOR 1/22/83. ESTIMATED DURATION- 7 WEEKS.

27. IF CURRENTLY SHUTDOWN, ESTIMATED STARTUP DATE..... N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-213

Conn. Yankee  
UNIT Haddam Neck

DATE October 13, 1982

COMPLETED BY S. Unikewicz

TELEPHONE (203) 267-2556

MONTH: September 1982

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>564</u>	17	<u>427</u>
2	<u>564</u>	18	<u>0</u>
3	<u>564</u>	19	<u>0</u>
4	<u>565</u>	20	<u>0</u>
5	<u>565</u>	21	<u>0</u>
6	<u>562</u>	22	<u>0</u>
7	<u>562</u>	23	<u>0</u>
8	<u>562</u>	24	<u>0</u>
9	<u>562</u>	25	<u>0</u>
10	<u>564</u>	26	<u>217</u>
11	<u>562</u>	27	<u>562</u>
12	<u>536</u>	28	<u>463</u>
13	<u>562</u>	29	<u>570</u>
14	<u>561</u>	30	<u>571</u>
15	<u>560</u>	31	<u>---</u>
16	<u>560</u>		

INSTRUCTIONS

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

CONNECTICUT YANKEE  
 REACTOR COOLANT DATA  
 MONTH: SEPTEMBER 1982

REACTOR COOLANT ANALYSIS	MINIMUM	AVERAGE	MAXIMUM
PH @ 25 DEGREES C	: 6.14E+00	: 6.55E+00	: 6.86E+00
CONDUCTIVITY (UMHOS/CM)	: 4.30E+00	: 7.32E+00	: 1.07E+01
CHLORIDES (PPM)	: <5.00E-02	: <5.00E-02	: <5.00E-02
DISSOLVED OXYGEN (PPB)	: <5.00E+00	: <5.00E+00	: <5.00E+00
BORON (PPM)	: 2.80E+02	: 4.16E+02	: 7.89E+02
LITHIUM (PPM)	: 3.90E-01	: 7.07E-01	: 9.20E-01
TOTAL GAMMA ACT. (UC/ML)	: 6.50E-02	: 1.07E+00	: 1.75E+00
IODINE-131 ACT. (UC/ML)	: 1.61E-03	: 7.42E-03	: 9.62E-03
I-131/I-133 RATIO	: 6.08E-01	: 8.01E-01	: 9.53E-01
CRUD (MG/LITER)	: <1.00E-02	: <1.00E-02	: <1.00E-02
TRITIUM (UC/ML)	: 5.82E-01	: 1.62E+00	: 2.32E+00
HYDROGEN (CC/KG)	: 5.44E+00	: 1.86E+01	: 3.45E+01

AERATED LIQUID WASTE PROCESSED(GALLONS): 1.18E+05  
 WASTE LIQUID PROCESSED THROUGH BORON RECOVERY(GALLONS): 1.20E+05  
 AVERAGE PRIMARY LEAK RATE(GALLONS PER MINUTE): 1.15E+00  
 PRIMARY TO SECONDARY LEAK RATE(GALLONS PER MINUTE): 0.00E+00



UNIT SHUTDOWNS AND POWER REDUCTIONS

POCKET NO. 50-213  
 UNIT NAME Conn. Yankee  
 DATE October 13  
 COMPLETED BY S. Unikewicz  
 TELEPHONE (203) 267-2556

REPORT MONTH September 1982

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
	820917	F	195	B	I	N/A	EB	TRANSF	Moisture in main transformer oil. Filtered oil, repaired leaks, tested and returned to service.
						LER 82-06/3L	EC	BATTERY	Battery internal plates swelled causing stress on battery casing resulting in cracking of casing. Replaced battery.
	820928	N/A	0	A	N/A	N/A	N/A	N/A	Reduced power to plug condenser tubes

1  
 F Forced  
 S Scheduled

2  
 Reason:  
 A-Equipment Failure(Explain) H-Other(Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training&License Examination  
 F-Administrative  
 G-Operational Error(Explain)

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

4  
 Exhibit C-Instructions for Preparation of Data Entry Sheets for Licensee Event Report(LER)File (NUREG-0161)

5  
 Exhibit 1 Same Source



REFUELING INFORMATION REQUEST

**1. Name of facility**

Connecticut Yankee Atomic Power Company

**2. Scheduled date for next refueling shutdown.**

January 22, 1983

**3. Scheduled date for restart following refueling.**

Approximately six to eight weeks.

**4. (a) Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?**

No technical specification changes are anticipated at this time.

**(b) If answer is yes, what, in general, will these be?**

N/A

**(c) If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)?**

**(d) If no such review has taken place, when is it scheduled?**

N/A

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

There are no scheduled dates because of (4) above.

**6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.**

None.

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

(a) 157 (b) 389

**8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.**

1168

**9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.**

1994 to 1995