

CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

HADDAM, CONNECTICUT

MONTHLY OPERATING REPORT NO. 85-11

FOR THE MONTH OF

NOVEMBER 1985

8602190061 851130  
PDR ADOCK 05000213  
R PDR

IE24  
11

## PLANT OPERATIONS

The following is a summary of plant operations for November, 1985:

The unit commenced a load decrease to 73% power on November 8 at 0721 hours to reset reactor coolant flow trip setpoints. The unit returned to 100% power at 2000 hours.

On November 10 at 0140 hours, an automatic reactor and turbine trip occurred due to spurious steam line high  $\Delta P$  signals.

The plant phased on line at 1927 hours on November 10. After chemistry holds at 5% and 25% power, the unit reached full power on November 11 at 2120 hours.

On November 12 at 2359 hours, the unit reduced load approximately 10 MWe after receiving an alarm on #4 high steam flow  $\Delta P$ . The unit returned to full power at 0000 hours on November 13.

An automatic reactor and turbine trip occurred on November 21 at 1422 hours during setpoint adjustment of the high steam flow trip. Since the unit is in a coastdown mode and steam flows are higher, interaction occurred between loops. The interaction was due to the high steam flow signals being close to the trip point completing the 2/4 logic resulting in a reactor trip.

The plant phased on line on November 22 at 0147 hours. After chemistry holds, the plant started increasing load. The unit decreased load to 280 MWe on November 22 at 1352 hours due to steam generator feed pump vibration. At 1500 hours, the plant commenced a load increase. The unit had to reduce load to 300 MWe at 1634 because of problems with "A" steam generator feed pump. The unit came off line on November 27 at 0220 hours to repair the feed pump. The unit phased on line at 0750 hours on November 28, and after chemistry holds, reached full power at 2330 hours on November 30.

SYSTEM OR COMPONENT	INSTRUMENTATION AND CCNTROL NOVEMBER 1985		EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO FREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	MALFUNCTION				
	CAUSE	RESULT			
Steam line break protective circuit	Spurious noise and channel interaction	Caused trip	N/A	Set trip points as far away from signal as possible according to tech spec	N/A

SYSTEM OR COMPONENT	MAINTENANCE      NOVEMBER 1985		EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	MALFUNCTION				
	CAUSE	RESULT			
There were no reportable items for the month of November.					

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-213

Conn. Yankee  
UNIT Haddam Neck

DATE Dec. 15, 1985

COMPLETED BY C. B. Dean

TELEPHONE (203) 267-2556

MONTH: November 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>580</u>
2	<u>578</u>
3	<u>576</u>
4	<u>573</u>
5	<u>574</u>
6	<u>573</u>
7	<u>572</u>
8	<u>504</u>
9	<u>575</u>
10	<u>42</u>
11	<u>256</u>
12	<u>505</u>
13	<u>560</u>
14	<u>560</u>
15	<u>561</u>
16	<u>561</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>559</u>
18	<u>560</u>
19	<u>559</u>
20	<u>559</u>
21	<u>333</u>
22	<u>58</u>
23	<u>206</u>
24	<u>253</u>
25	<u>256</u>
26	<u>264</u>
27	<u>14</u>
28	<u>19</u>
29	<u>133</u>
30	<u>300</u>
31	<u></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: NOVEMBER 1985

REACTOR COOLANT ANALYSIS	MINIMUM	AVERAGE	MAXIMUM
PH @ 25 DEGREES C	: 5.87E+00 :	7.07E+00 :	9.19E+00 :
CONDUCTIVITY (UMHOS/CM)	: 5.00E-01 :	2.09E+00 :	4.80E+00 :
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)	: 1.50E-01 :	5.32E+01 :	2.17E+02 :
LITHIUM (PPM)	: 1.00E-02 :	1.19E-01 :	6.70E-01 :
TOTAL GAMMA ACT. (UC/ML)	: 2.89E-01 :	1.08E+00 :	1.65E+00 :
IODINE-131 ACT. (UC/ML)	: 4.21E-03 :	2.39E-02 :	1.72E-01 :
I-131/I-133 RATIO	: 1.41E+00 :	5.26E+00 :	2.59E+01 :
CRUD (MG/LITER)	: <1.00E-02 :	<1.00E-02 :	<1.00E-02 :
TRITIUM (UC/ML)	: 6.47E-01 :	7.02E-01 :	7.45E-01 :
HYDROGEN (CC/KG)	: 3.42E+01 :	3.70E+01 :	4.10E+01 :

AERATED LIQUID WASTE PROCESSED(GALLONS):	1.13E+05
WASTE LIQUID PROCESSED THROUGH BORON RECOVERY(GALLONS):	2.11E+05
AVERAGE PRIMARY LEAK RATE(GALLONS PER MINUTE):	5.98E-01
PRIMARY TO SECONDARY LEAK RATE(GALLONS PER MINUTE):	0.00E+00

# NRC Operating Status Report

## Haddam Neck

1. Docket: 50-213
2. Reporting Period: 11/85      Outage + On-line Hours: 34.0 + 686.0 = 720.0
3. Utility Contact: J.P. Drago (203) 267-2556, ext. 452
4. Licensed Thermal Power (MWt): 1825
5. Nameplate Rating (Gross MWe):  $667 \times 0.9 = 600.3$
6. Design Electrical Rating (Net MWe): 582
7. Maximum Dependable Capacity (Gross MWe): 595.8
8. Maximum Dependable Capacity (Net MWe): 569
9. If changes occur above since last report, reasons are: NONE
10. Power level to which restricted, if any (Net MWe): N/A
11. Reasons for restriction, if any: N/A

	MONTH	YEAR-TO-DATE	CUMULATIVE
12. Report period hours:	720.0	8,016.0	157,056.0
13. Hours reactor critical:	696.6	7,938.4	135,655.4
14. Reactor reserve shutdown hours:	0.0	21.0	1,285.0
15. Hours generator on-line:	686.0	7,877.9	130,082.5
16. Unit reserve shutdown hours:	0.0	24.3	398.0
17. Gross thermal energy generated (MWtH):	962,315.0	13,684,030.0	225,871,200.0 *
18. Gross electrical energy generated (MWeH):	310,222.0	4,464,170.0	74,123,320.0 *
19. Net electrical energy generated (MWeH):	292,168.4	4,250,953.0	70,512,020.0 *
20. Unit service factor:	95.3	98.3	82.8
21. Unit availability factor:	95.3	98.6	83.1
22. Unit capacity factor using MDC net:	71.3	93.2	82.5
23. Unit capacity factor using DER net:	69.7	91.1	77.2
24. Unit forced outage rate:	4.7	1.7	5.7
25. Forced outage hours:	34.0	138.0	7,844.1

26. Shutdowns scheduled over ne. 6 months (type,date, duration): REFUELING 01/04/86 11 WEEKS

27. If currently shutdown, estimated startup date: N/A

\* Cumulative values from the first criticality (07/24/67). (The remaining cumulative values are from the first date of commercial operation, 01/01/68).

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-213

UNIT NAME Conn. Yankee

DATE Dec. 15, 1985

COMPLETED BY R. Trejo

TELEPHONE (203)267-2556

REPORT MONTH November 1985

No.	Date	Type <sup>2</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	LER RPT.	System <sup>4</sup> Code	Component <sup>5</sup> Code	Cause & Corrective Action to Prevent Recurrence
85-09	11/10/85	F	17 hours 47 minutes	A	3	85- 028-00	IA	INSTRU	Erroneous steam flow high $\Delta$ P signal (ESF)
85-10	11/21/85	F	11 hours 25 minutes	A	3	85- 028-00	IA	INSTRU	Erroneous steam flow high $\Delta$ P signal (ESF)
85-11	11/27/85	F	5 hours 30 minutes	A	1	N/A	CH	PUMPXX	Generator taken off-line to repair steam generator feed pump vibration

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

5  
Exhibit I Same Source



REFUELING INFORMATION REQUEST

1. Name of facility

Connecticut Yankee Atomic Power Company

2. Scheduled date for next refueling shutdown.

January 4, 1986

3. Scheduled date for restart following refueling.

March 19, 1986

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

YES

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

1. Revise the allowance factors in calculating core power peaking.
2. Revise the axial offset limits for 4 loop and 3 loop operation.
3. Revise the RCS mass flow specification due to anticipated S/G work.

- (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)?

Core reload design in progress.

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

January 1986

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

December 1985

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.

NO

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

(a) 157 (b) 545

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



CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

RR #1, BOX 127E, EAST HAMPTON, CONN. 06424

December 15, 1985

Docket No. 50-213

Director, Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Sir:

In accordance with reporting requirements, the Connecticut Yankee Haddam Neck Plant Monthly Operating Report 85-11, covering operations for the period November 1, 1985 to November 30, 1985, is hereby forwarded.

Very truly yours,

Richard H. Graves  
Station Superintendent

RHG/dfv  
Enclosures

- cc:
- (1) Director, Region I  
Division of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406
  - (2) Director, Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

1E24  
11