

CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

HADDAM, CONNECTICUT

MONTHLY OPERATING REPORT NO. 82-1

FOR THE MONTH OF

JANUARY 1982

8202180326 820212
PDR ADDCK 05000213
R PDR

PLANT OPERATIONS:

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

The plant operated at full power until January 2 at 1503 hours when a load reduction was commenced to plug leaking condenser tubes in the "B" Waterbox. Load increase began at 0455 hours on January 3 and full power was reached at 0800.

On January 8 at 0645 the unit started a load decrease due to a leak on the boric acid filter bypass valve, BA-V-388. Repairs to the boric acid filter bypass valve were completed and the unit reached full power at 1340 hours.

It was necessary to reduce the plant load three more times during the month due to condenser tube leakage. Load was reduced on January 12, 20 and 25 for short periods of time as a result of this problem. An evaluation is in progress to determine the cause and solution to the condenser tube leakage.

On January 31 at 0600 hours the plant experienced a reactor and turbine trip. This trip was caused by a piece of metal shim stock making contact with and shorting out several diodes on the exciter diode wheel. The extent of damage is still being determined.

SYSTEM OR COMPONENT	MALFUNCTION		ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	CAUSE	RESULT			
		NO REPORTABLE EQUIPMENT FAILURE FOR JANUARY.			

SYSTEM OR COMPONENT	MALFUNCTION		ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	CAUSE	RESULT			
FEEDWATER FLOW	Faulty diodes in voltage converter found loose solder connection in voltage converter.	Loss of feedwater flow indication and control in automatic.	NONE	Replaced converter.	Manual operation of feedwater. Constant operator surveillance of feed and steam flow.
POWER RANGE CHANNEL	Faulty detector.	CH 31, A detector spiking.	NONE	Replaced detector.	None. Shutdown Mode 2.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-213

Conn. Yankee

UNIT Haddam Neck

DATE 2-10-82

COMPLETED BY D. Anderson

TELEPHONE (203) 267-2556

MONTH: January 1982

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>579</u>
2	<u>511</u>
3	<u>527</u>
4	<u>579</u>
5	<u>579</u>
6	<u>578</u>
7	<u>580</u>
8	<u>565</u>
9	<u>578</u>
10	<u>578</u>
11	<u>577</u>
12	<u>354</u>
13	<u>378</u>
14	<u>577</u>
15	<u>578</u>
16	<u>578</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>578</u>
18	<u>577</u>
19	<u>577</u>
20	<u>535</u>
21	<u>193</u>
22	<u>575</u>
23	<u>577</u>
24	<u>579</u>
25	<u>514</u>
26	<u>576</u>
27	<u>578</u>
28	<u>577</u>
29	<u>576</u>
30	<u>579</u>
31	<u>145</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: JANUARY 1982

REACTOR COOLANT ANALYSIS	MINIMUM	AVERAGE	MAXIMUM
PH @ 25 DEGREES C	5.44E+00	5.70E+00	6.00E+00
CONDUCTIVITY (UMHOS/CM)	1.17E+01	1.76E+01	2.10E+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)	9.51E+02	1.02E+03	1.13E+03
LITHIUM (PPM)	1.30E+00	1.63E+00	1.95E+00
TOTAL GAMMA ACT. (UC/ML)	1.62E-01	1.38E+00	3.90E+00
IODINE-131 ACT. (UC/ML)	6.28E-03	6.58E-02	1.08E+00
I-131/I-133 RATIO	3.53E-01	8.44E-01	1.12E+00
CRUD (MG/LITER)	<1.00E-02	<1.00E-02	<1.00E-02
TRITIUM (UC/ML)	3.82E-01	2.04 E+00	2.83E+00
HYDROGEN (CC/KG)	2.25E+01	2.43E+01	2.55E+01

AERATED LIQUID WASTE PROCESSED(GALLONS): 2.00E+05
 WASTE LIQUID PROCESSED THROUGH BORON RECOVERY(GALLONS): 3.95E+04
 AVERAGE PRIMARY LEAK RATE(GALLONS PER MINUTE): 1.42E-01
 PRIMARY TO SECONDARY LEAK RATE(GALLONS PER MINUTE): 0.00E+00

*****RSC OPERATING STATUS REPORT COMPLETED BY REACTOR ENGINEERING*****

* CONNECTICUT YANKEE *
* HADDAM NECK PLANT *

1. DOCKET.....50-213 OPERATING STATUS

2. REPORTING PERIOD.....January, 1982 OUTAGE + ON-LINE HR.... 18.0 + 726.0 = 744.0

3. UTILITY CONTACT.....JON ANDERSON (203) 267-2556 EX258

4. LICENSED THERMAL POWER(MWT).....1825

5. OVERLATE 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

YR. TO DATE CUMULATIVE TO DATE

MONTH

12. HOURS IN REPORTING PERIOD 744.0 744.0 123480.0 *

13. NUMBER OF HOURS THE REACTOR WAS CRITICAL 738.5 738.5 106230.0 *

14. REACTOR RESERVE SHUTDOWN HOURS 12.5 12.5 1205.0 *

15. HOURS GENERATOR ON LINE 726.0 726.0 101629.0 *

16. UNIT RESERVE SHUTDOWN HOURS 0.0 0.0 373.7

17. GROSS THERMAL ENERGY GENERATED (MWH) 1248639. 1248639. 175897895.

18. GROSS ELECTRICAL ENERGY GENERATED (MWH) 413844. 413844. 57787321.

19. NET ELECTRICAL ENERGY GENERATED (MWH) 394018. 394018. 54974470.

20. UNIT SERVICE FACTOR 97.6 97.6 82.3 *

21. UNIT AVAILABILITY FACTOR 97.6 97.6 82.6 *

22. UNIT CAPACITY FACTOR (USING MDC NET) 95.4 95.4 82.1 *

23. UNIT CAPACITY FACTOR (USING DER NET) 91.0 91.0 75.8 *

24. UNIT FORCED OUTAGE RATE 2.4 2.4 6.5 *

25. UNIT FORCED OUTAGE HOURS 18.0 18.0 7075.3 *

26. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS(TYPE,DATE AND DURATION OF EACH).....NONE

27. IF CURRENTLY SHUTDOWN, ESTIMATED STARTUP DATE.....February 7, 1982

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-213

UNIT NAME Conn. Yankee

DATE 2/10/82

COMPLETED BY D. Anderson

TELEPHONE (203)267-2556

REPORT MONTH January 1982

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting ³ Down Reactor	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
82-01	820112	N/A	0	A	N/A	N/A	N/A	N/A	Load reduction due to condenser in leakage.
82-02	820121	N/A	0	A	N/A	N/A	N/A	N/A	Reduced power to plug tubes in "D" and "B" waterboxes.
82-03	820131	F	18.0	A	3	N/A	ZZ	ZZZZZZ	Turbine and reactor trip. Trip caused by loss of generator field. Located six blown fuses on main exciter.

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 I Same Source

REFUELING INFORMATION REQUEST

1. Name of facility

Connecticut Yankee Atomic Power Company

2. Scheduled date for next refueling shutdown.

February 1983.

3. Scheduled date for restart following refueling.

Mid March 1983

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)? When documents are received from vendor they are reviewed in accordance with 10CFR 50.59 to determine if unreviewed safety questions are core reload associated.

(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) 441

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