



CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

RR#1 • BOX 127E • EAST HAMPTON, CT 06424-9341

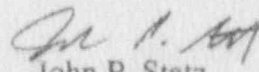
February 15, 1991
Re: Technical Specification 6.9.1.8
Docket No. 50-213

U. S. Nuclear Regulatory Commission
Documents Control Desk
Washington, D. C. 20555

Dear Sir:

In accordance with reporting requirements of Technical Specification 6.9.1.8, the Connecticut Yankee Haddam Neck Plant Monthly Operating Report 01-91 covering operations for the period January 1, 1991 to January 31, 1991 is hereby forwarded.

Very truly yours,


John P. Stetz
Station Director

JPS/va

- cc: (1) Regional Administrator, Region 1
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406
- (2) John T. Shedlosky
Sr. Resident Inspector
Connecticut Yankee

Connecticut Yankee Atomic Power Company

Haddam Neck Plant

Haddam, Connecticut

Monthly Operating Report No. 91-01

For The Month of

January 1991

Plant Operations Summary -January 1991

The following is a summary of Plant Operations for January 1991.

On January 1st at 0000 hours, the plant was operating at 100% power.

On January 11th at 1325 hours, a power reduction was initiated due to difficulty experienced with the main steam line trip valve test. At 1338 hours, the problem was resolved. The power reduction was stopped at 98.6% power. At 1348 hours, a power ascension was commenced. By 1420 hours, the plant was operating at 100% power.

On January 20th at 0004 hours, a power reduction was initiated for the turbine stop and control valve test. At 0135 hours, power was at 65% for the test. At 0308 hours, the test was successfully completed and a power ascension was commenced. By 0645 hours, the plant was operating at 100% power.

The plant continued to operate at 100% power for the remainder of the month.

January's production was the 3rd highest gross electrical generation in the history of Connecticut Yankee Atomic Power Company. Generation was 457,127,000 KwHr for the month and the gross production to date is 87,799,959,235 KwHr.

I & C January 1991

System or Component	Malfunction		Effect on Safe Operation	Corrective Action Taken to Prevent Repetition	Special Precautions Taken To Provide for Reactor Safety During Repair
	Cause	Result			
There were no reportable items for I&C for the month of January 1991					

MAINTENANCE January 1991

System or Component	Malfunction		Effect on Safe Operation	Corrective Action Taken to Prevent Repetition	Special Precautions Taken To Provide for Reactor Safety During Repair
	Cause	Result			
Auxiliary Feedwater Pump Turbine T-2-1B (P-32-1B)	Loose Locking nut and worn linkage on overspeed trip mechanism	Turbine tripped at lower speed than required during routine testing	None	Overspeed linkage repaired. Linkage inspected on companion pump turbine	None - work completed within Technical Specification L.C.O.
Containment Air Recirculation Fan Damper FD-1-4	Broken Linkage	Failure of damper to operate. Found during scheduled test.	None	Replaced broken linkage and inspected all other linkage for wear.	None - work completed within Technical Specification L.C.O.

AVERAGE DAILY UNIT POWER LEVEL

Docket No: 50-213

Unit: Connecticut Yankee
Haddam Neck

Date: January 1991

Month: January 1991

Completed By: S. F. Claffey
Telephone: (203) 267-3650

DAY	AVERAGE POWER LEVEL (MWe-Net)	DAY	AVERAGE POWER LEVEL (MWe-Net)
1	<u>588</u>	17	<u>588</u>
2	<u>589</u>	18	<u>588</u>
3	<u>588</u>	19	<u>588</u>
4	<u>588</u>	20	<u>550</u>
5	<u>588</u>	21	<u>588</u>
6	<u>588</u>	22	<u>589</u>
7	<u>588</u>	23	<u>589</u>
8	<u>588</u>	24	589
9	<u>589</u>	25	<u>588</u>
10	<u>589</u>	26	<u>588</u>
11	<u>588</u>	27	<u>588</u>
12	<u>589</u>	28	<u>588</u>
13	<u>587</u>	29	<u>589</u>
14	<u>589</u>	30	<u>588</u>
15	<u>589</u>	31	<u>589</u>
16	<u>588</u>		

HRC OPERATING STATUS REPORT

Haddam Neck

1. Docket: 50-213
2. Reporting Period: 01/91 Outage + On-line Hours: 0.0 + 744.0 = 744.0
3. Utility Contact: J. Stanford (203) 267-3635
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): 591.8
8. Maximum Dependable Capacity (Net MWe): 565
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:	744.0	744.0	202,368.0
13. Hours reactor critical:	744.0	744.0	161,817.7
14. Reactor reserve shutdown hours:	0.0	0.0	1,285.0
15. Hours generator on-line:	744.0	744.0	155,421.6
16. Unit reserve shutdown hours:	0.0	0.0	398.0
17. Gross thermal energy generated (MwTH):	1,352,288.0	1,352,288.0	268,025,301.0 *
18. Gross electrical energy generated (MWeH):	457,127.0	457,127.0	87,799,965.0 *
19. Net electrical energy generated (MWeH):	436,866.6	436,866.6	83,413,765.2 *
20. Unit service factor:	100.0	100.0	76.8
21. Unit availability factor:	100.0	100.0	77.0
22. Unit capacity factor using MDC net:	103.9	103.9	75.0
23. Unit capacity factor using DER net:	100.9	100.9	70.8
24. Unit forced outage rate:	0.0	0.0	5.9
25. Forced outage hours:	0.0	0.0	9,710.3
26. Shutdowns scheduled over next 6 months (type,date, duration):	NONE		
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 SHUTDOWN AND POWER REDUCTIONS

Docket No. 50-213
 Unit Name: Connecticut Yankee
 Date: JANUARY 1991

Completed By: S. Claffey
 Telephone 203-267-3650

Report Month: JANUARY 1991

No	Date	1. Type	Duration (hours)	2. Reason	3. Method of Shutting Down Reactor	LER Report	4. System Code	Component Code	Cause and Corrective Action to Prevent Recurrence
		No reportable shutdowns or power reductions for January							

- 1 Forced
- S Scheduled
- 2 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 SCR,vm
 - 3 Automatic scram
 - 4 Other (Explain)
- 4 Exhibit 5 - Instructions for Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)
- 5 Exhibit 1 Same Source

CONNECTICUT YANKEE
 REACTOR COOLANT DATA
 MONTH: JANUARY 1991

REACTOR COOLANT ANALYSIS	MINIMUM	AVERAGE	MAXIMUM
PH @ 25 DEGREES C	6.13E+00	6.52E+00	6.69E+00
CONDUCTIVITY (UMHOS/CM)	1.11E+01	1.46E+01	1.85E+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)	7.07E+02	7.51E+02	7.97E+02
LITHIUM (PPM)	1.19E+00	1.38E+00	1.65E+00
TOTAL GAMMA ACT. (UC/ML)	4.59E-01	9.32E-01	2.02E+00
IODINE-131 ACT. (UC/ML)	4.60E-03	7.85E-03	3.82E-02
I-131/I-133 RATIO	1.19E+00	1.59E+00	2.79E+00
CRUD (MG/LITER)	<1.00E-02	4.40E-02	1.10E+00
TRITIUM (UC/ML)	1.69E+00	1.94E+00	2.25E+00
HYDROGEN (CC/KG)	2.31E+01	2.53E+01	2.68E+01

AERATED LIQUID WASTE PROCESSED(GALLONS): 1.68E+05
 WASTE LIQUID PROCESSED THROUGH BORON RECOVERY(GALLONS): 2.80E+04
 AVERAGE PRIMARY LEAK RATE(GALLONS PER MINUTE): 6.40E-01
 PRIMARY TO SECONDARY LEAK RATE(GALLONS PER MINUTE): 2.36E-03

Refueling Information Request

1. Name of facility
Haddam Neck
2. Scheduled date for next refueling shutdown.
October 5, 1991
3. Scheduled date for restart following refueling.
November 26, 1991
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?
Revise Section 5 of Technical Specifications to allow use of zircaloy clad fuel. Obtain an exemption from 10CFR50 Appendix K Sections I.D.3, I.D.4 and I.D.5.
- (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)
n/a
- (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.
The exemption request was submitted to the NRC in September 1990. The request for license amendment will be submitted in March 1991.
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.
Conversion to zircaloy cladding.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
(a) 157 (b) 709
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.
1996