CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

HADDAM, CONNECTICUT

MONTHLY OPERATING REPORT NO. 83-12

FOR THE MONTH OF

DECEMBER 1983

8401270057 831231
PDR ADOCK 05000213
R PDR

PLANT OPERATIONS

The following is a summary of plant operations for the month of December 1983:

The unit commenced a load reduction on December 7 at 1544 hours to 50% power to replace slave cycler switches in the rod control system. At 2155 hours, the plant started increasing to 65% power to perform routine turbine stop valve testing. On December 8 at 0100 hours the test was completed and a load increase was commenced.

The unit reached full power at 0430 hours on December 8 and remained there throughout the rest of December.

SYSTEM OR COMPONENT	December 1983 - I&C MALFUNCTION		EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	CAUSE	RESULT			
Reactor Coolant System Loop 4 TAVG compensating lead.	Loose connections.	low readings.	NONE	Tightened connections.	NONE

SYSTEM OR COMPONENT	December 1983 - Maintenance MALFUNCTION		EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
	CAUSE	RESULT			
VCT-MOV-257	Control power fuse failure. Reason: To much continuous ampacity for a 1 amp fuse.	Loss of control power.	NONE	Installed a .200 KVA transformer and a 3 amp fuse (ref. PDCR 580).	N/A
EG-2B Air Leak	Air leakage thru air start solenoid. Reason: Dirt under backseat of solenoid.	Small air leak which did not effect operability of diesel.	NONE	Cleaned solenoid.	N/A

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

1. DOCKET.....50-213 — OPERATING STATUS
2. REPORTING PERIOD...DECEMBER 1983 — OUTAGE + ONLINE HOURS... 0 + 744 = 744
3. UTILITY CONTACT..... R. L. EPPINGER (203) 267-2556 EXT 274
4. LICENSED THERMAL POWER.....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)..... 595.8
8. MAXIMUM DEPENDABLE CAPACITY (NET MWE)..... 569
9. IF CHANGES OCCUR ABOVE SINCE LAST REPORT, REASONS ARE.....N/A

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

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

****
* CONNECTICUT YANKEE *
* HADDAM NECK PLANT *
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	MONTH	YR. TO DATE	CUMULATIVE TO DATE
12. HOURS IN REPORTING PERIOD	744.0	8760.0	140256.0 *
13. NUMBER OF HOURS THE REACTOR WAS CRITICAL	744.0	6949.0	121201.4 *
14. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1264.0 *
15. HOURS GENERATOR ONLINE	744.0	6818.3	115908.4 *
16. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	373.7
17. GROSS THERMAL ENERGY GENERATED (MWH)	1349090.0	12207070.0	201372560.0
18. GROSS ELECTRICAL ENERGY GENERATED (MWH)	448278.0	3974764.0	66113672.0
19. NET ELECTRICAL ENERGY GENERATED (MWH)	427844.9	3779961.8	62898773.8
20. UNIT SERVICE FACTOR	100.0	77.8	82.6 *
21. UNIT AVAILABILITY FACTOR	100.0	77.8	82.9 *
22. UNIT CAPACITY FACTOR (USING MDC NET)	101.1	75.8	82.5 *
23. UNIT CAPACITY FACTOR (USING DER NET)	98.8	74.1	76.6 *
24. UNIT FORCED OUTAGE RATE	0.0	0.4	6.2 *
25. UNIT FORCED OUTAGE HOURS	0.0	27.0	7619.0 *

*SINCE COMMERCIAL OPERATION 1/1/68

SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE AND DURATION OF EACH)..... REFUELING 06-16-84 10 WEEKS

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

CONNECTICUT YANKEE
REACTOR COOLANT DATA
MONTH: DECEMBER 1983

REACTOR COOLANT ANALYSIS	MINIMUM	AVERAGE	MAXIMUM
PH @ 25 DEGREES C	5.71E+00	5.94E+00	6.15E+00
CONDUCTIVITY (UMHOS/CM)	6.85E+00	8.28E+00	9.25E+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)	3.59E+02	4.05E+02	4.68E+02
LITHIUM (PPM)	5.90E-01	7.28E-01	9.20E-01
TOTAL GAMMA ACT. (UC/ML)	5.85E-01	8.08E-01	1.09E+00
IODINE-131 ACT. (UC/ML)	1.69E-03	4.28E-03	5.31E-03
I-131/I-133 RATIO	6.29E-01	9.08E-01	1.30E+00
CRUD (MG/LITER)	<1.00E-02	<1.00E-02	<1.00E-02
TRITIUM (UC/ML)	1.56E+00	1.64E+00	1.77E+00
HYDROGEN (CC/KG)	2.64E+01	2.91E+01	3.20E+01

AERATED LIQUID WASTE PROCESSED(GALLONS):	2.49E+05
WASTE LIQUID PROCESSED THROUGH BORON RECOVERY(GALLONS):	8.81E+04
AVERAGE PRIMARY LEAK RATE(GALLONS PER MINUTE):	0.13E-01
PRIMARY TO SECONDARY LEAK RATE(GALLONS PER MINUTE):	0.00E+00

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-213
UNIT Conn. Yankee Atomic Power Co.
DATE December 1983
COMPLETED BY S. Unikewicz
TELEPHONE (203)267-2556

MONTH DECEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	579	17	578
2	578	18	579
3	578	19	579
4	579	20	578
5	579	21	578
6	579	22	578
7	488	23	578
8	558	24	579
9	578	25	578
10	579	26	579
11	579	27	579
12	579	28	579
13	579	29	580
14	579	30	579
15	579	31	579
16	579		

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.

56.8

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50/213
UNIT NAME Conn. Yankee Atomic
DATE December
COMPLETED BY S. Unikewicz
TELEPHONE (203)267-2556

REPORT MONTH December 1983

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
									No shutdowns or power reductions in the month of December 1983.

1
F 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 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)

Exhibit I - Same Source

(9/77)

REFUELING INFORMATION REQUEST

1. Name of facility

   Connecticut Yankee Atomic Power Company

2. Scheduled date for next refueling shutdown.

   June 16, 1984

3. Scheduled date for restart following refueling.

   August 4, 1984

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?

   Four demonstration fuel assemblies with Zircaloy-4 fuel rods will be inserted in Cycle XIII; Zr-4 weight will be 388 KG (nominal). Technical Specification 5.3 allows four Zr-4 fuel assemblies with 350 Kg Zr-4; the Zr-4 limit will be raised to 400 Kg (nominal).

   When the core design documents are received from the fuel vendor, they will be reviewed in accordance with 10CFR50.59 to determine if any unreviewed safety questions are associated with the core reload.

   (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?

   Early 1984

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

   Early 1984

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.

   Insertion of four fuel assemblies with Zircaloy-4 fuel rods, in anticipation of future conversion from stainless steel to Zircaloy-4 fuel cladding.

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

   (a) 157 (b) 493

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

January 15, 1984

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 Monthly Operating Report 83-12, covering operations for the period December 1, 1983 to December 31, 1983 is hereby forwarded.

Very truly yours,

Richard H. Graves
Station Superintendent

RHG/sos
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

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