CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

HADDAM, CONNECTICUT

MONTHLY OPERATING REPORT NO. 80-8

FOR THE MONTH OF

AUGUST, 1980

PLANT OPERATIONS

The following is a chronological description of plant operations for the month of August, 1980.

8/1/80 At the beginning of this report period the plant was operating on three-loops at 65% full power (365 MWe).

8/2/80 Turbine Trip-Reactor Trip @ 0200 hrs. First out on turbine was loss of auto stop oil-mechanical overspeed initiated trip.

8/2/80 Commenced critical approach at 0415 hrs. and attained criticality at 0455 hrs. Rolled turbine and phased unit to the line @ 2030 after several rolls and turbine trips to set overspeed mechanical trip.

8/3/80 Load @ 25% full power (150 MWe) and holding for stm./gen. Chem. @ 0150 hrs.

8/3/80 At 0252 hrs. started "B" stm. gen. feed pump and shutdown "A" pump due to failed outboard seal.

8/4/80 Commenced load increase at 0305 hrs. and reached 65% full power (full load for three loops) @ 0530 hrs.

8/4/80 "B" Aux. stm./gen. feed pp out of service 2008 hrs. to 2225 hrs. for repair of drain line leak.

8/5/80 Started #2 RCP and commenced heatup of #2 loop at 0616 hrs.

8/5/80 Commenced load reduction to take unit off line to place #2 loop inservice. Unit off line @ 2209 hrs. #2 RCp shutdown @2302, reactor shutdown @ 2400 hrs.

8/6/80 Unisolated loop 2 at 0015 hrs. and started #2 RCP @ 0138 hrs. Commenced critical approach @ 0210 and reactor was critical @ 0300 hrs. Stm. was taken out of secondary plant for work. H.P. turbine gland stm supply line leak @ 0310.

8/6/80 Commenced warming stm. line @ 0925 hrs. and phased unit to line @ 1259 hrs. Increased load to 150 MWe and holding for Chem. @ 1635 hrs.

PLANT OPERATIONS (Cont.)

8/7/80 Commenced load increase @ 0410 hrs. and attained 65% full power at 0640--continuing load increase @ 18 MWe an hour--reached full load (562 MWe) @ 1738 hrs.

8/12/80 #1 containment recirculation fan removed from service for cable replacement @ 1453 hrs.

8/14/80 At 1730 hrs. found #3 turbine control valve to be not operating properly. Reduced load to 550 MWe @ 1757 hrs. to work on #3 turbine control valve.

8/15/80 Closed #3 turbine control valve and opened #4 @ 2045 hrs.

8/16/80 #1 containment recirculation fan returned to service @ 0145 hrs. Opened #3 turbine control valve with test motor stiglitly to maintain full load, 1015 hrs.

8/20/80 Charging flow control valve (FCV-110) failed open and was isolated @ 1905 hrs.

8/21/80 CH-FCV-110 returned to service following solenoid replacement.

8/25/80 EG-2A out of service for cooler cleaning @ 0700 hrs.

8/27/80 #3 containment recirculation fan out of service for maintenance @ 1005 hrs. and returned to service @ 1320 hrs.

8/27/80 EG-2A tested and returned to service 1950 hrs.

8/28/80 EG-2B out of service for cooler cleaning @ 0655 hrs.

8/29/80 EG-2B tested and returned to service @ 2015 hrs.

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			
Rod Position Indication for Rod #7 & #8	Increase in plant Tavg affected span setting	Rods 7 & 8 read higher than rest of the bank	None	Adjusted span of Rods 7 & 8 to agree with remainder of of bank	None
Containment Sump level recorder	Broken drive belt	Chart failed to drive	None	Replaced broken belt	MCB indicator in service while repairs in progress to monitor sump level
FCV-110	Failed solenoid	FCV-110 failed open	None	Replaced failed solenoid	Backup valve FCV-110A was in service
Power Range 34	Not enough gain out of full power amplifier	Power level could not be set closed to trip point	None	Rebalanced A & B detector currents to allow higher output from full power amplifier	Load run back jumper installed in channel 34 during work. Other 3 channels operating as called for by Tech. Specs.
F-17-1 Containment Recirc Fan MA-1189	Improper installation	Grounded cable	1 of 4 fans out of service	Replaced cable	None - fan out of service less than 7 days
#2 Reactor Coolant Pump	Faulty Seals	Improper seal leakage	None	Replaced seals	None - pump not run with bad seal

CONNECTICUT YANKEE
REACTOR COOLANT DATA
MONTH: AUGUST 1980

REACTOR COOLANT ANALYSIS	MINIMUM	AVERAGE	MAXIMUM
PH @ 25 DEGREES C	5.60E+00	5.98E+00	6.65E+00
CONDUCTIVITY (UMHOS/CM)	5.05E+00	1.20E+01	2.30E+01
CHLORIDES (PPM)	<4.00E-02	<4.00E-02	<4.00E-02
DISSOLVED OXYGEN (PPB)	<5.00E+00	<5.00E+00	<5.00E+00
BORON (PPM)	1.10E+03	1.20E+03	1.47E+03
LITHIUM (PPM)	5.00E-01	1.20E+00	2.10E+00
TOTAL GAMMA ACT. (UC/ML)	5.89E-01	3.21E+00	5.32E+00
IODINE-131 ACT. (UC/ML)	7.43E-03	1.89E-02	2.46E-02
I-131/I-133 RATIO	6.42E-01	7.93E-01	1.00E+00
CRUD (MG/LITER)	1.30E-03	1.14E-02	3.00E-02
TRITIUM (UC/ML)	1.05E-01	1.01E+00	1.72E+00
HYDROGEN (CC/KG)	2.10E+01	2.83E+01	3.75E+01

AERATED LIQUID WASTE PROCESSED(GALLONS):	1.34E+05
WASTE LIQUID PROCESSED THROUGH BORON RECOVERY(GALLONS):	1.54E+04
AVERAGE PRIMARY LEAK RATE(GALLONS PER MINUTE):	2.36E-01
PRIMARY TO SECONDARY LEAK RATE(GALLONS PER MINUTE):	0.00E+00

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-213
Conn. Yankee
UNIT Haddam Neck

DATE 9/10/80

COMPLETED BY Reactor Engineering

TELEPHONE (203) 267-2556

MONTH: August 1980

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	342	17	553
2	31	18	552
3	129	19	555
4	298	20	556
5	292	21	558
6	49	22	560
7	390	23	558
8	537	24	558
9	541	25	556
10	542	26	555
11	543	27	552
12	546	28	550
13	548	29	551
14	546	30	551
15	535	31	548
16	549		

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.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-213
UNIT NAME Connecticut Yankee
DATE 9/10/80
COMPLETED BY Reactor Engineering
TELEPHONE (203) 267-2556

REPORT MONTH August 1980

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
80-4	800802	F	18.5	G	3				Reactor & Turbine trip due to turbine overspeed. Overspeed trip setting improperly adjusted.
80-5	800805	S	14.8	F	1				Shutdown in order to tie in Loop 2 after RCP #2 repair.

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)

5
Exhibit I - Same Source

(9/77)

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

1. UNIT NAME....CONN. YANKEE ATOMIC POWER CO.
2. REPORTING PERIOD....August 1980
3. LICENSED THERMAL POWER(MWT)....1825
4. NAMEPLATE RATING(GROSS MWE)....600.3
5. DESIGN ELECTRICAL RATING(NET MWE)....580
6. MAXIMUM DEPENDABLE CAPACITY(GROSS MWE)....577
7. MAXIMUM DEPENDABLE CAPACITY(NET MWE)....550
8. IF CHANGES OCCUR IN CAPACITY RATINGS(ITEMS 3 THROUGH 7)SINCE LAST REPORT, GIVE REASONS....N/A
9. POWER LEVEL TO WHICH RESTRICTED. IF ANY(NET MWE)....None
10. REASON FOR RESTRICTION. IF ANY....N/A

DOCKET NO. 50-213
DATE 9/10/80
COMPLETED BY Reactor Engineering
TELEPHONE (203) 267-2556

		THIS REPORTING PERIOD	YR. TO DATE	CUMULATIVE TO DATE
11.	HOURS IN REPORTING PERIOD	744.0	5855.0	111047.0 *
12.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	737.5	3858.8	95055.6 *
13.	REACTOR RESERVE SHUTDOWN HOURS	15.6	27.0	1179.6 *
14.	HOURS GENERATOR ON LINE	710.7	3767.6	90707.8 *
15.	UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	369.9
16.	GROSS THERMAL ENERGY GENERATED (MWH)	1185534.	6382816.	156523965.
17.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	371992.	2096613.	51451079.
18.	NET ELECTRICAL ENERGY GENERATED (MWH)	352974.	1987720.	48942483.
19.	UNIT SERVICE FACTOR	95.5	64.3	81.7 *
20.	UNIT AVAILABILITY FACTOR	95.5	64.3	82.1 *
21.	UNIT CAPACITY FACTOR (USING MDC NET)	86.3	61.7	81.5 *
22.	UNIT CAPACITY FACTOR (USING DER NET)	81.8	58.5	75.2 *
23.	UNIT FORCED OUTAGE RATE	2.5	0.8	7.0 *

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS(TYPE,DATE AND DURATION OF EACH)....Turbine balance and maintenance, Sept. 26, 1980, approx. 3 days

25. IF SHUTDOWN AT END OF REPORTING PERIOD, ESTIMATED DATE OF STARTUP....N/A

26. UNITS IN TEST STATUS(PRIOR TO COMMERCIAL OPERATION)....NOT APPLICABLE

*SINCE DATE OF COMMERCIAL OPERATION 1-1-68

REFUELING INFORMATION REQUEST

1. Name of facility

   Connecticut Yankee Atomic Power Company

2. Scheduled date for next refueling shutdown.

   September/October 1981

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)?

   When the above stated 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.

   (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