CONNECTICUT YANKEE ATOMIC POWER COMPANY
HADDAM NECK PLANT
HADDAM, CONNECTICUT

MONTHLY OPERATING REPORT NO. 80-7

FOR THE MONTH OF

JULY, 1980

### PLANT OPERATIONS

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

- 7/1/80 Reactor was shutdown for refueling.
- 7/2/80 EG2A Diesel surveillance test completed.
- 7/2/80 Initial energization of 319 transformer.
- 7/3/80 EG2B Diesel surveillance test completed.
- 7/3/80 Fire Protection system surveillance test completed.
- 7/8/80 Completed Class "A" Leak Test.
- 7/9/80 Completed "A" LPSI flow test.
- 7/9/80 Completed partial loss of AC Test.
- 7/13/80 @ 2110 RCS hydro performed successfully at 2160 PSIG.
- 7/16/80 @ 0648 #2 RCP Seal failed.
- 7/16/80 Auxiliary feed water pumps (Terry Turbine) surveillance completed.
- 7/18/80 Seal water supply valves replaced.
- 7/24/80 1652 #2 RCP seal failed.
- 7/24/80 2315 initial critical @ 530°F, 2000 psig, #1
  Hot Leg Cg 1757, CDA 320, B @ 300 low power
  physics test begun.
- 7/25/80 @ 2330 completed low power physics test.
- 7/26/80 @ 0400 Reactor critical for initial power assention.
- 7/27/80 @ 1048 initial phase to grid.
- //28/80 @ 1053 completed 25% power hold.
- 7/29/80 @ 0345 increased load from 50%. ("A" feed pump repaired).
- 7/29/80 @ 0653 P 65% power 3 loop.
- 7/30/80 @ 1133 #2 RCP seal failure.

## CONNECTICUT YANKEE REACTOR COOLANT DATA MONTH: JULY 1980

REACTOR COOLANT ANALYSIS		MINIMUM		AVERAGE		MUMIXAM		
PH @ 25 DEGREES C		4.45E+00	:	5.06E+00		5.75E+00	*	
CONDUCTIVITY (UMHOS/CM)	:	4.40E+00 <4.00E-02	*	6.37E+00 <4.00E-02	: :	1.40E+01 <4.00E-02		
DISSOLVED OXYGEN (PPB)	:	<5.00E+00	*	<5.00E+00	:	<5.00E+00	*	
BORON (PPM)		1.31E+03	*	2.01E+03		2.35E+03	*	
LITHIUM (PPM)	:	5.00E-01	*	5.29E-01	:	6.00E-01	*	
TOTAL GAMMA ACT. (UC/NL)	:	5.34E-04	*	3.37E-01		3.30E+00	:	
IODINE-131 ACT. (UC/ML)	:	4.88E-03	*	7.63E-03	;	9.36E-03	*	
I-131/I-133 RATIO		5.77E-01	:	6.44E-01	*	7.18E-01	*	
CRUD (MG/LITER)		2.00E-01	:	2.00E-01	*	2.00E-01	2	
TRITIUM (UC/ML)	:	2.64E-02	:	7.94E-02	:	1.35E-01	*	
HYDROGEN (CC/KG)	:	1.15E+01	:	1.65E+01	*	2.15E+01	:	
* . * *							4	

	A	ERATED	LIQUID	WASTE	PROCESS	SED (	GALLONS)	: :	1.07E+05
WASTE LIG	UID PRO	CESSED	THROUGH	BORON	RECOVE	ERY (	GALLONS)		L.17E+05
									0.00E-01
									0.00E+00

SYSTEM OR COMPONENT	- MALFI	UNCTION RESULT	EFFECT ON SAFE OPERATION	CORRECTIVE ACTIONT TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
Steam Cenerator Blowdown Trip Valves MS-TV-1312-1, 1312-3 and 1312-4	Erosion	Valves failed penetration test	Valves would not isolate	Valves rebuilt	Plant was shutdown.
No. 2 RCP Oil line quick disconnect fitting	Wear	Oil leak	Possible loss of RCP oil	Replaced fitting	RCP not run until repaired
RCP Seal Water Supply Filter	Improper Assembly	Filter internally bypassed	Contamination of RCP seals with crud	Replaced missing filter parts	Switched to alternate filter
SI MOV-861A	Lead making contact with motor housing	480V Ground	Valve inoperable electrically	Reinsulated wire	Plant shutdown
DH-MOV-310	Improperly set torque switch	Valve would not shut completely	Unable to properly throttle drain header	Valve motor operator adjusted	Plant shutdown
Reactor head vent solenoids	Water and boric acid in connector	125 VDC Ground	Possible loss of valve operability	Cleaned, dried and tested	Plant shutdown
CH-V-266	Erosion	Valve would not isolate	Loss of "A" charging pump full capacity	Valve replaced with Rockwell Hermaseal valve	"B" charging pump operable
RCP Seal Water Supply valves CH-V-345 A, B, C and D	Inability of valves to moperate in throttling mode	Valve disk broken in half, valve diaphragm broken	Contamination of system with valve debris, external leak- age	Replaced valves with Rockwell univalves	Plant shutdown

SYSTEM OR COMPONENT	MALFU CAUSE	NCTION RESULT	EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
No. 3 RCP Oil lift system quick disconnet		Oil leak	Possible loss of RCP oil		RCP not run until repaired
No. 2 RCP Seal Failure	Improper Operation and Crud	Excessive seal leakage	Loss of No. 2 RCP	Seals replaced, seal water supply valves replaced, seal supply filter repaired and procedures rewritten.	Plant in 3 loop operation
"A" Boric Acid Pump	Failed bearings excessive run time	Pump binding	Loss of "A" boric acid pump capacity	Replaced bearings	"B" boric acid pump operable
"A" Charging Pump Aux. Oil Pump	Wear	Oil seal failed	"A" Charging Pump inoperable	Replaced seal	Plant shutdown "B" Pump operable
"B" Charging Pump	Pump run without oil press. during loss of AC test	Pump bearings failed and out board seal failed	Loss of "B" Charging Pump	Bearings and seal replaced	Plant shutdown "A" pump available
"B" Primary Water Pump (P-29-1B)	Wear	Mechanical seal failed, excessive leakage	Loss of P-29-1B	Replaced seal	"A" pump operable
"B" Service Water Pump Motor	Wear	Upper motor bearing (thrust) failing	Possible loss of "B" service water pump	Replaced upper motor bearings	None - A, C & D pumps operable
RH-MOV-781	Breaker latch spring weak from age	Breaker would not remain shut	RH-MOV-781 inoperable electrically	Replaced breaker	Plant shutdown

SYSTEM OR	MALFU CAUSE	UNCTION RESULT	EFFECT ON SAFE OPERATION	CORRECTIVE ACTION TAKEN TO PREVENT REPETITION	SPECIAL PRECAUTIONS TAKEN TO PROVIDE FOR REACTOR SAFETY DURING REPAIR
Master Cycler	Low 28VDC Power Supply	No Rod motion	None - Power level controlled by boration and dilution	Replaced 28VDC power supply and master cycler	
Pressurizer Auto Level controller	Failed Operational Amplifier	No remote auto setpoint to FCV-110	None - Operators had manual and local auto options to use	Replaced operational amplifier	Ran RCV-110 flow controller in local auto.
Spray line low temp alarm	Failed light source	Low temp alarm on MCB	None	Replaced light source	None
Pressurizer Pressure Channel 2 & 3	New Cables installed touching force motor	Pressure not tracking with hydro	None	Relocated wires so they were not touching force motor, rechecked calibration	None - plant shutdown
#2 S.G. Narrow and Wide Range Level Transmitters	Failed wire wound bridge resistors	Hi signal level	None	Replaced all wire wound bridge resistors with Hi watts Caron resistors	None - Plant Shutdown
Source Range II	Capacitor	SUR Not following with S.R. 14	None	Replaced capacitor	None - operators monitoring other channel during repairs

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-213

Conn. Yankee
UNIT Haddam Neck

DATE August 13, 1980

COMPLETED BY Reactor Engineering

TELEPHONE (203) 267-2556

980		
DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	3 - 31
	25	
	26	
19-19-72-15	27	59
	28	179
	29	329
	30	336
	31	341
		DAILY POWER LEVEL (MWe-Net)  17 18 19 20 21 22 23 24 25 26 27 28

#### 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.

## UNIT SILUTBOWNS AND POWER REDUCTIONS

REPORT MONTH July 1980

50-213 POCKET NO. Conn. Yankee UNIT NAME August 13, 1980 DATE COMPLETED BY Reactor Engineering TELEPHONE (203) 267-2556

No.	Date	Lypel	Duration (Hours)	Reason?	Method of Shutting Down Reactor?	Licensee Event Report #	System Cude 4	Consponent Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
80-3	800630 to 800727	S	634.8	C	4		ZZ	ZZZZZZ	Continuation of Core 10 refueling/ Maint. Shutdown. Phased to line @ 1048 80-07-27

1	Forced
5	Scheduled

Reason:

A-Liquipment Failure (Explain) B. Maintenance or Test

C-Retneling

D Regulatory Restriction

1 Operator Framing & License I xamination

1 Administrative

G Operational Little (Laplain)

HOther (1 splan)

Method: 1-Manual 2-Manual Scram.

A-Automatic Scram.

4-Other (Explain)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LLR) File (NURLG-0161)

I Mobil I Same Source

(1/1/1)

## \*\*\*\*\*HIRC UPERATING STATUS REPORT COMPLETED BY REACTOR ENGINEERING\*\*\*\*\*

1. UNIT DA E...CUMI. YANKEE ATOMIC POWER CO.
2. REPORTING PERIOD...July 1980
3. LICENSEU TICHARL POWER (AUT)...1825

DOCKET NO. 50-213 DATE August 13, 1980 COMMETED BY: Reactor Eng. TELEPHONE (203) 207-2358

5. DESTUD ELECTRICAL RATING (NET ALE)....580
5. SOUTHWEIT DEPENDABLE CAPACITY (GROSS ALE)....577

. MAKENDA DEPENDABLE CAPACITY (NET INE)....550

... IF CHARGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7)SINCE LAST REPORT, GIVE REASONS .... N/A

S. PULER LEVEL TO WHICH RESTRICTED. IF ANY (NET IME) .... None

10. REASON FOR RESTRICTION. IF ANY...N/A

MAY EPLATE HATTING (GROSS TIME) .... 600.3

		THIS REPORTING PERIOD	YR. TO DATE	CURLATIVE TO DATE
11.	HUUIS IN REPORTING PERIOD	744.0	5111.0	110303.0 •
14.	HUBER OF HUGES THE REACTOR HAS CRITICAL	164.3	3121.3	94318.1 *
15.	REACTUR RESERVE SHUTDUM HOLES	0.0	11.4	1164.0 •
14.	HOURS GENERATOR OF LINE	109.2	3056.9	89997.1 +
b.	UNIT RESERVE STUTDOM TOURS	0.0	0.0	369.9
15.	GRUSS THER IAL ENERGY GENERATED (TAM)	107212.	5197282.	155338431.
17.	GROUS ELECTRICAL ENERGY GENERATED (44H)	32200.	1724621.	51079027.
16.	NET ELECTRICAL ENERGY GENERATED (MAN)	25427.	1634746.	48589509.
19.	UNIT SERVICE FACTOR	14.7	59.8	81.6 *
u.	JHIT AVAILABILITY FACTOR	14.7	59.8	\$1.9 •
12.	WHIT CAPACITY FACTOR (USING MDC NET)	6.2	58.2	E1.4 •
22.	UNIT CAPACITY FACTOR (USING DER NET)	5.9	55.1	75.2 *
٥.	UNIT FUNCEU OUTABE RATE	0.0	0.4	7.1 *
4.	SHOTDUMAS SCHEDULED OVER HEXT 6 PORTHS (TY	PE, DATE AND DURATION OF EACH)	None	
۵.	IF SHUTWARM AT END OF REPORTING PERIOD, E	STIMATED DATE OF STARTUP N/A	entrephical and an experience of the second second	
v.	GHTS IN TEST STATUS (PRIOR TO CONTERCIAL	OPERATION) NOT APPLICABLE		

\*SINCE DATE OF COMMERCIAL OPERATION 1-1-68