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Edwin I. Hatch Nuclear Plant

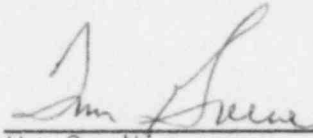
April 8, 1983  
GM-83-363

PLANT E. I. HATCH  
NRC Monthly Operating Report

Office of Plans and Schedules  
Directorate of Licensing  
United States Nuclear Regulatory Commission  
Washington, D. C. 20545

Dear Sir:

Per Tech Specs section 6.9.1.6 please find attached the NRC Monthly Operating Report for Hatch Unit 1, Docket #50-321, and for Hatch Unit 2, Docket #50-366.

  
H. C. Nix  
General Manager

HLS/hh

IE24

OPERATING DATA REPORT

DOCKET NO. 50-321  
DATE 04-10-83  
COMPLETED BY FREDERICK J. REDMAN  
TELEPHONE (912) 367-7781 x 203

OPERATING STATUS

- \*\*\*\*\*  
\* Notes  
\*\*\*\*\*
1. Unit Name: E. I. Hatch Nuclear Plant Unit 1 \*
  2. Reporting Period: 03-83 \*
  3. Licensed Thermal Power (MWt): 2436 \*
  4. Nameplate Rating (Gross MWe): 809.3 \*
  5. Design Electrical Rating (Net MWe): 777.3 \*
  6. Maximum Dependable Capacity (Gross MWe): 801.2 \*
  7. Maximum Dependable Capacity (Net MWe): 764.7 \*
  8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: \*\*\*\*\*

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	2160	63528
12. Number Of Hours Reactor Was Critical	728.6	1003.1	43255.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	710.1	865.7	41016.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1470350	1658658	85907021
17. Gross Electrical Energy Generated (MWH)	478940	532540	27802030
18. Net Electrical Energy Generated (MWH)	457065	498301	26384516
19. Unit Service Factor	95.4	40.1	64.6
20. Unit Availability Factor	95.4	40.1	64.6
21. Unit Capacity Factor (Using MDC Net)	89.2	20.2	54.3
22. Unit Capacity Factor (Using DER Net)	79.0	29.7	53.4
23. Unit Forced Outage Rate	4.9	4.1	19.8
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup:

Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----
		(9/77)

4304210038

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-321  
DATE 04-10-83  
COMPLETED BY FREDERICK J. REDMANZ  
TELEPHONE (912) 367-7781 x 203

MONTH 03-83

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	501	17	706
2	531	18	758
3	115	19	757
4	443	20	759
5	532	21	762
6	637	22	767
7	621	23	768
8	709	24	768
9	732	25	743
10	724	26	762
11	725	27	755
12	713	28	391
13	329	29	65
14	627	30	413
15	610	31	683
16	638		

(9/77)

OPERATING DATA REPORT

POCKET NO. 50-366  
DATE 04-10-82  
COMPILED BY FREDERICK J. PERDUE  
TELEPHONE (912) 387-7781 x 203

OPERATING STATUS

- \*\*\*\*\*  
\* Notes  
\*\*\*\*\*
- 1. Unit Name: E. I. Hatch Nuclear Plant Unit 2
  - 2. Reporting Period: 03-82
  - 3. Licensed Thermal Power (MWt): 2436
  - 4. Nameplate Rating (Gross MWe): 817.0
  - 5. Design Electrical Rating (Net MWe): 784.0
  - 6. Maximum Dependable Capacity (Gross MWe): 803.9
  - 7. Maximum Dependable Capacity (Net MWe): 774.5
  - 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

- 9. Power Level To Which Restricted, If Any (Net MWe):
- 10. Reasons For Restrictions, If Any:

	This Month	Yr -to-Date	Cumulative
11. Hours in Reporting Period	744	2160	31297
12. Number Of Hours Reactor Was Critical	744	2160	23311
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	2160	22315
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1264152	3970272	47575955
17. Gross Electrical Energy Generated (MWH)	427950	1355089	15621550
18. Net Electrical Energy Generated (MWH)	407794	1294348	14862674
19. Unit Service Factor	100	100	71
20. Unit Availability Factor	100	100	71
21. Unit Capacity Factor (Using MDC Net)	70	77	61
22. Unit Capacity Factor (Using DER Net)	69	76	60
23. Unit Forced Outage Rate	0	0	1
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

- 25. If Shut Down At End Of Report Period, Estimated Date of Startup:
- 26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

(9/77)



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 59-366  
DATE 04-10-83  
COMPLETED BY FREDERICK J. REDMANZ  
TELEPHONE (912) 367-7781 x. 203

MONTH 03-83

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	550	17	549
2	545	18	547
3	544	19	546
4	542	20	548
5	536	21	548
6	536	22	550
7	544	23	549
8	543	24	550
9	546	25	550
10	554	26	549
11	552	27	548
12	553	28	554
13	553	29	554
14	551	30	552
15	551	31	549
16	547		

(9/77)

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March

DOCKET NO. 50-321  
 UNIT NAME Hatch 1  
 DATE 4-10-83  
 COMPLETED BY F. J. Redwanz  
 TELEPHONE 912-367-7851

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
83-08	830301	F	55.1	A	5	NA	HC	HTEXCHD	SJAE failed to hold vacuum.
83-09	830303	F	8.6	A	1	NA	PE	RECOMB	High H <sub>2</sub> content-offline-no scram.
83-10	830303	F	10.0	A	1	NA	PE	RECOMB	Ramp from above outage.
83-11	830304	F	15.6	A	5	NA	CH	PUMPXX	Reactor feed pump controls.
83-12	830304	F	13.1	A	5	NA	IE	INSTRU	TIP Repair.
83-13	830305	S	51.9	H	9	NA	RB	FUFLXX	Fuel Preconditioning ramp.
83-14	830307	F	4.2	A	5	NA	CB	PUMPXX	High recirc vibration alarm.
83-15	830312	F	31.9	B	5	NA	HC	HTEXCHD	Condenser tube leak inspection.
83-16	830315	F	8.3	A	5	NA	CB	PUMPXX	Both recirc pumps tripped-reset & restarted.
83-17	830319	S	2.0	B	5	NA	HA	TURBIN	Weekly turbine test.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> Reason:  
A-Equipment Failure (Explain)  
B-Maintenance of Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training & License Examination  
F-Administrative  
G-Operational Error (Explain)  
H-Other (Explain)

<sup>3</sup> Method:  
1-Manual  
2-Manual Scram.  
3-Automatic Scram.  
4-Continuations  
5-Load Reduction  
9-Other (Explain)

<sup>4</sup> Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

<sup>5</sup> Exhibit I - Same Source

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March

DOCKET NO. 50-321  
 UNIT NAME Hatch 1  
 DATE 4-10-83  
 COMPLETED BY F. J. Redwanz  
 TELEPHONE 912-367-7851

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
83-18	830325	F	1.8	A	5	NA	CH	HTEXCH	5th stg. A & B feedwater heaters flooded.
83-19	830327	S	1.0	B	5	NA	HA	TURBIN	Weekly turbine test.
83-20	830328	F	15.2	A	3	NA	HA	TURBIN	Rx. scram on EHC power supply failure.
83-21	830329	F	1.1	A	3	NA	HA	TURBIN	Turbine trip.
83-22	830329	F	9.0	B	3	NA	CB	TURBIN	Rx. scram on RFPT daily test.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Continuations  
 5-Load Reduction  
 9-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source

NARRATIVE REPORT  
UNIT 1

March 1st	0430 started increasing recirc flow.
March 1st	0745 decreasing to 500 MWe due to condenser vacuum problems.
March 1st	1900 increasing load to 550 MWe.
March 2nd	0115 increasing load to 590 MWe.
March 2nd	0614 holding power ascension due to uncertainty in condenser vacuum.
March 2nd	1405 reducing power due to condenser vacuum problems.
March 2nd	1514 condenser vacuum stabilized, load at 334 MWe.
March 2nd	1812 increasing power.
March 2nd	2800 reducing power to swap SJAE's.
March 3rd	0330 stopped power reduction at 595.7 CMWT, 136.5 GMWe.
March 3rd	0400 H <sub>2</sub> content greater than 4% in recombiner - LCO written.
March 3rd	0650 reduced load to take main turbine off-line.
March 3rd	0707 turbine tripped.
March 3rd	1020 reactor mode switch to startup.
March 3rd	1100 1A SJAE alligned to "B" recombiner.
March 3rd	1230 reactor mode switch to run.
March 3rd	1425 commenced turbine roll.
March 3rd	1440 turbine tripped on shaft oil pump low pressure.
March 3rd	1505 turbine rolling.
March 3rd	1543 generator tied to the grid.
March 4th	0145 stopped power ascension because of problems with "B" RFP.



March 4th	0745 decreasing power due to condenser vacuum problems.
March 4th	0920 increasing load to 450 MWe.
March 4th	1212 holding load due to water in RFP lube oil system.
March 4th	1720 increasing power.
March 4th	1841 "B" TIP being repaired.
March 5th	0850 increasing power.
March 7th	1240 reducing load because of hi vibration on "B" recirc pump.
March 7th	1330 stopped load reduction @ 456 GMWe.
March 7th	1420 increasing power to 600 GMWe.
March 8th	1940 recirc hi speed stops reached, holding load until stop's are reset.
March 11th	1742 reducing load to 700 MWe to reset recirc stops.
March 11th	1745 returning to 750 MWe per procedure.
March 11th	2323 recirc stops reset.
March 12th	0403 received half scram on "A" channel due to low water level trip.
March 12th	0830 relay replaced, half scram reset.
March 12th	1940 105% rated coreflow reached.
March 12th	2105 load reduction for weekly turbine testing and to inspect condenser for tube leaks.
March 13th	2220 increasing load to 450 MWe.
March 14th	0500 started preconditioning.
March 14th	1310 started ramp on envelope.
March 15th	1340 both recirc pumps tripped.
March 15th	1347 lockout and reset "B" recirc pump.
March 15th	1349 "A" recirc pump on.
March 15th	1520 increasing recirc flow.
March 15th	2200 started preconditioning.

March 19th	1940 reducing load to 2720 MWe for WTT
March 19th	2000 load reduction stopped at 2208 CMWT, 719.9 GMWe.
March 19th	2120 increasing reactor power.
March 25th	0930 5th stage "A" and "B" feedwater heaters flooded reduced flow from 76 (10 <sup>6</sup> ) lbs/hr to 54 (10 <sup>6</sup> ) lbs/hr.
March 25th	1050 increasing reactor power.
March 28th	1238 reactor scram on EHC power supply failure.
March 28th	2140 reactor critical.
March 28th	2313 turbine reset.
March 29th	0200 reactor mode switch to run.
March 29th	0340 main turbine rolling.
March 29th	0352 turbine trip.
March 29th	0401 turbine reset and rolling.
March 29th	0440 generator tied to line.
March 29th	0506 reactor scram on low water level while performing reactor feedpump turbine daily test.
March 29th	0722 pulling rods.
March 29th	0952 reactor critical.
March 29th	1221 mode switch to run.
March 29th	1315 turbine rolling.
March 29th	1359 generator tied to line.

NARRATIVE REPORT  
UNIT 2

Hatch Unit 2 was limited to 70% thermal power for the month of March due to high offgas activity and to meet the scheduled refueling window.

HATCH 1 SAFETY-RELATED MAINTENANCE REQUESTS  
TO BE REPORTED FOR March 1983

<u>NUMBER</u>	<u>DATE COMPLETED</u>	<u>DESCRIPTION</u>
82-5916	03-07-83	Fabricate orifice couplings (3) for D/G air compressor start pressure switches.
82-7256	03-04-83	Grout in the (2) open 3" diameter penetrations caused by removing (2) 1 1/2" lines from TIP wall in East Cableway.
83-1424	02-25-83	Fabricate leakage packing piping for MSIV drain valve.



HATCH 2 SAFETY-RELATED MAINTENANCE REQUESTS  
TO BE REPORTED FOR March 1983

<u>NUMBER</u>	<u>DATE COMPLETED</u>	<u>DESCRIPTION</u>
82-348	02-26-83	Install conduit supports for torus water temp. monitoring system.
82-1487	02-17-83	Mount microcomputer on North wall of the main control room for Rx. bldg. vent monitor.
82-1581	02-16-83	Seal or repair air seals in all penetrations for 1251250 VAC station service battery system.
82-1706	02-17-83	Fabricate & install supports & raceway for Rx. Bldg. effluent monitoring system.
82-1758	03-01-83	Mount safety switch.
82-1784	03-01-83	Mount GRAB sample control panel.
82-1785	02-11-83	Mount microcomputer.
82-1831	02-17-83	Pull cables for Rx. Bldg. Vent. effluent monitoring system.
82-1857	02-17-83	Install (mount) relay 2D11-VZ12A & TB5 in panel 2D11-D002A & mount terminal block TB-5 in panel 2D11-D002B.
82-1940	02-17-83	Core drill & install conduit penetrations for conduits 2MT6905 & 2MT4789 for Rx. Bldg. effluent monitoring system.
82-2261	02-17-83	Install L&N recorder 2D11-RR-R631 in panel H11-P689 for Rx. Bldg. vent stack rad. monitoring.
82-2265	02-17-83	Replace circuit breaker in MCC 2R24-S011 Fr. 2DL for Rx. Bldg. stack rad monitoring.

82-2409	02-17-83	Terminate cables for Rx. Bldg. vent stack monitoring.
82-2473	02-17-83	Exchange 2 OAT bkr. in 2R24-S018A F35L with 5 OAT bkr. in MCC 2C 2R24-S011-FR2DL.
82-3858	02-17-83	Install hardware in turbine bldg. for rx. bldg. vent stack monitoring.
82-4310	02-17-83	Drill & grout 3" core bore in east turbine bldg. wall for rx. bldg. vent high range rad. monitoring.
82-5582	02-22-83	Reroute RCIC turbine governor end bearing lube oil lines.
82-5751	01-20-83	Fabricate & install three piece intake structure roof hatch covers.
82-6014	02-08-83	Replace temporary 0-100 PSIO Bartons with permanent 0-40 PSIO Barton's & calibrate the permanent switches.
83-81	02-01-83	Replace hydraulic snubber.
83-111	02-18-83	Paint nitrogen storage tank fill & bypass line supports.
83-118	02-14-83	Run piping & install valves for nitrogen storage tank fill line & bypass line.