**H. L. Sumner, Jr.**
Vice President
Hatch Project

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SOUTHERN COMPANY
*Energy to Serve Your World℠*

September 13, 2004

NL-04-1766

Docket Nos.: 50-321
50-366

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Hatch Nuclear Plant
Monthly Operating Reports

Ladies and Gentlemen:

Enclosed are the August 2004 Monthly Operating Reports as required by section 5.6.4 of the Technical Specifications.

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,

Lewis Sumner

H. L. Sumner, Jr.

HLS/il/daj

Enclosures: E1 – HNP Unit 1 Monthly Operating Report
E2 – HNP Unit 2 Monthly Operating Report

cc: Southern Nuclear Operating Company
Mr. J. T. Gasser, Executive Vice President
Mr. G. R. Frederick, General Manager – Plant Hatch
RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission
Dr. W. D. Travers, Regional Administrator
Mr. C. Gratton, NRR Project Manager – Hatch
Mr. D. S. Simpkins, Senior Resident Inspector – Hatch

IE24

Enclosure 1

Plant Hatch Unit 1
Monthly Operating Report
August 2004

# OPERATING DATA REPORT

| | |
|---|---|
| DOCKET NO. | 50-321 |
| UNIT NAME | Hatch 1 |
| DATE | September 10, 2004 |
| COMPLETED BY | R. M. Beard |
| TELEPHONE | (912) 366-2000 x5925 |

REPORTING PERIOD: August 2004

| | | |
|---|---|---|
| 1. Design Electrical Rating | 885.00 | |
| 2. Maximum Dependable Capacity (MWe-Net) | 869.00 | |

| | This Month | Yr-to-Date | Cumulative |
|---|---|---|---|
| 3. Number of Hours the Reactor was Critical | 744.00 | 5,190.13 | 204,062.94 |
| 4. Number of Hours Generator On-line | 744.00 | 5,117.43 | 198,028.15 |
| 5. Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 6. Net Electrical Energy Generated (MWHrs) | 645,145.00 | 4,294,596.00 | 145,972,765.0 |

## UNIT SHUTDOWNS

| No. | Date | Type F: Forced S: Scheduled | Duration (Hours) | Reason 1 | Method of Shutting Down 2 | Cause & Corrective Action Comments |
|---|---|---|---|---|---|---|

SUMMARY: Unit 1 began the month operating at ~94% of rated thermal power while performing CRD Exercises. The unit was returned to rated thermal power at 0415 on 8/1/04 following a preconditioning ramp. Shift reduced power to <2777 CMWth at 1129 on 8/5/04 when it was determined that the feedwater flow correction factor from the ultrasonic flow meter, CROSSFLOW, was not being utilized by the process computer due to an operator failing to initiate the input to the heat balance following the Recirculation System runback on 7/7/04. The CROSSFLOW input to the process computer was re-initiated at 1549 on 8/5/04 and the unit returned to rated thermal power at 1730 on 8/5/04. Shift reduced power to <2777 CMWth (~99% of rated) at 0824 on 8/7/04 and removed the CROSSFLOW input from the heat balance due to an increasing number of nuisance alarms. Shift reduced load to ~865 GMWe (~2625 CMWth) at 2300 on 8/7/04 to perform CRD Exercises. The unit was returned to 99% of rated thermal power, due to the CROSSFLOW input to the heat balance not being utilized, at 0315 on 8/8/04. Shift reduced load to ~900 GMWe (<2750 CMWth) at 1718 on 8/14/04 due to the Core Thermal Power (CTP) program on the process computer not updating. CTP was restored to service and the unit returned to ~99% of rated thermal power at 1932 on 8/14/04. Shift reduced load to ~860 GMWe (~2625 CMWth) at 2300 on 8/14/04 to perform CRD Exercises, a Rod Pattern Adjustment and Turbine Stop Valve Testing. The unit was returned to ~99% of rated thermal power at 0400 on 8/15/04 following a preconditioning ramp. The CROSSFLOW input to the heat balance was re-initiated and the unit returned to rated thermal power at 1305 on 8/17/04. Shift began reducing load to ~500 GMWe (~1600 CMWth) at 0800 on 8/21/04 to perform a Rod Sequence Exchange, CRD Scram Time Testing, Turbine Control Valve Testing, and CRD Exercises. Shift stopped reducing load when a discrepancy was discovered with the Control Rod Movement Sheet and the Rod Worth Minimizer. The unit was at ~710 GMWe (~2175 CMWth). Shift resumed the load reduction at 1520 after the discrepancy was resolved. The unit was returned to 99% of rated thermal power at 2020 on 8/22/04 following a preconditioning ramp while awaiting a setpoint change to be implemented on CROSSFLOW before initiating the input to the heat balance. Unit power level began decreasing at 0525 on 8/23/04 due to a limiting rod pattern following the sequence exchange. Shift reduced load for a rod pattern adjustment at 2023 on 8/23/04 and returned the unit to rated thermal power at 2356 on 8/23/04 following a preconditioning ramp. Shift reduced load to ~860 GMWe (~2625 CMWth) for CRD Exercises at 2300 on 8/28/04. The unit was returned to rated thermal power at 0402 on 8/29/04. Unit 1 completed the month of August maintaining rated thermal power. There were no challenges to the safety relief valves.

1

Reason:

- A Equipment Failure (Explain)
- B Maintenance or Test
- C Refueling
- D Regulatory Restriction
- E Operator Training & License Examination
- F Administration
- G Operational Error (Explain)
- H Other (Explain)

2

Method:

- 1 Manual
- 2 Manual Trip/Scram
- 3 Automatic Trip/Scram
- 4 Continuation
- 5 Other (Explain)

Enclosure 2

Plant Hatch Unit 2
Monthly Operating Report
August 2004

# OPERATING DATA REPORT

| | |
|---|---|
| DOCKET NO. | 50-366 |
| UNIT NAME | Hatch 2 |
| DATE | September 10, 2004 |
| COMPLETED BY | R. M. Beard |
| TELEPHONE | (912) 366-2000 x5925 |

REPORTING PERIOD: August 2004

| | | |
|---|---|---|
| 1. Design Electrical Rating | 908.00 | |
| 2. Maximum Dependable Capacity (MWe-Net) | 883.00 | |

| | This Month | Yr-to-Date | Cumulative |
|---|---|---|---|
| 3. Number of Hours the Reactor was Critical | 744.00 | 5,855.00 | 180,615.90 |
| 4. Number of Hours Generator On-line | 744.00 | 5,855.00 | 176,227.47 |
| 5. Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 6. Net Electrical Energy Generated (MWHrs) | 647,848.00 | 5,144,651.00 | 132,725,063.0 |

## UNIT SHUTDOWNS

| No. | Date | Type F: Forced S: Scheduled | Duration (Hours) | Reason 1 | Method of Shutting Down 2 | Cause & Corrective Action Comments |
|---|---|---|---|---|---|---|

SUMMARY: Unit 2 began the month maintaining maximum operating power (MOP) of ~2765 CMWth. Unit 2 is limited to a maximum control voltage (EsubL) of 4.82 to the #4 Turbine Control Valve. Shift reduced load to ~720 GMWe (~2230 CMWth) at 1300 on 8/1/04 to perform a Rod Pattern Adjustment and CRD Exercises. The unit was returned to MOP at 0450 on 8/2/04 following a preconditioning ramp. Shift reduced load to ~720 GMWe (~2220 CMWth) at 1659 on 8/8/04 to perform a Rod Pattern Adjustment and CRD Exercises. The unit was returned to MOP at 0450 on 8/9/04 following a preconditioning ramp. Shift reduced load to ~910 GMWe (~2763 CMWth) at 0844 on 8/14/04 to support removing the security power inverter from service. The security power inverter impacts the power supply to the process computer. Shift further reduced load to ~900 GMWe (<2773 CMWth) when power was restored and the process computer activated but the CROSSFLOW derate clock active. Shift did not initiate the CROSSFLOW input to the heat balance while the derate clock was active, The unit was returned to MOP at 2036 on 8/14/04 following a preconditioning ramp after the CROSSFLOW derate clock cleared and the input to the process computer heat balance was restored. Shift reduced load to ~860 GMWe at 2258 on 8/15/04 to perfrom CRD Exercises, a Rod Pattern Adjustment and Turbine Stop Valve Testing. The unit was returned to MOP at 0502 on 8/16/04 following a preconditioning ramp. Shift reduced load to ~830 GMWe (~2525 CMWth) at 2301 on 8/22/04 to perfrom a Rod Pattern Adjustment and CRD Exercise. The unit was returned to MOP at 0802 on 8/23/04 following a preconditioning ramp. Shift increased power to ~2790 CMWth at 0914 on 8/25/04 after increasing vessel pressure by 10 lbs, from 1035 PSIG to 1045 PSIG to reduce the value of the control signal to the #4 Turbine Control Valve and begin testing for the Appendix K Power Uprate. Shift decreased power back to MOP at 1657 on 8/25/04 after experiencing delays in the recirculation system response to minor speed adjustments. Shift reduced vessel pressure to 1035 PSIG at 1936 on 8/25/04 per management direction. Shift reduced load to ~860 GMWe (~2625 CMWth) at 2300 on 8/29/04 to perform CRD Exercises and a Rod Pattern Adjustment. The unit was returned to MOP at 0538 on 8/30/04 following a preconditioning ramp. Unit 2 completed the month of August maintaining MOP. There were no challenges to the safety relief valves.

1

Reason:

- A Equipment Failure (Explain)
- B Maintenance or Test
- C Refueling
- D Regulatory Restriction
- E Operator Training & License Examination
- F Administration
- G Operational Error (Explain)
- H Other (Explain)

2

Method:

- 1 Manual
- 2 Manual Trip/Scram
- 3 Automatic Trip/Scram
- 4 Continuation
- 5 Other (Explain)