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June 5, 2003

Docket Nos.: 50-321  
50-366

NL-03-1230

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

Edwin I. Hatch Nuclear Plant  
Monthly Operating Reports

Ladies and Gentlemen:

Enclosed are the May 2003 Monthly Operating Reports for Edwin I. Hatch Nuclear Plant Unit 1, Docket No. 50-321, and Unit 2, Docket No. 50-366. These reports are submitted in accordance with Technical Specifications 5.6.4.

Respectfully submitted,

A handwritten signature in cursive script that reads "Lewis Sumner".

H. L. Sumner, Jr.

HLS/il/daj

Enclosures:

1. May Monthly Operating Report for Plant Hatch Unit 1
2. May Monthly Operating Report for Plant Hatch Unit 2

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

U. S. Nuclear Regulatory Commission  
Mr. L. A. Reyes, Regional Administrator  
Mr. S. D. Bloom, NRR Project Manager – Hatch  
Mr. N. P. Garrett, Acting Senior Resident Inspector – Hatch

Utility Data Institute, Inc.  
Ms. Barbara Lewis - McGraw-Hill Companies

FE24

Enclosure 1  
Plant Hatch Unit 1  
Monthly Operating Report  
May 2003

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## OPERATING DATA REPORT

|               |                      |
|---------------|----------------------|
| Docket No.:   | 50-321               |
| Unit Name:    | E. I. Hatch Unit 1   |
| Date:         | June 2, 2003         |
| Completed By: | S. B. Rogers         |
| Telephone:    | (912) 366-2000 x2279 |

### Operating Status

|   |          |
|---|----------|
| 1. Reporting Period:                      | MAY 2003 |
| 2. Design Electrical Rating (Net MWe):    | 870      |
| 3. Maximum Dependable Capacity (Net MWe): | 856      |

|  | <u>This Month</u> | <u>Year To Date</u> | <u>Cumulative</u> |
|--|-------------------|---------------------|-------------------|
| 4. Number of Hours Reactor Was Critical: | 726.5             | 3,317.5             | 193,735.8         |
| 5. Hours Generator On Line:              | 710.0             | 3,301.0             | 187,773.8         |
| 6. Unit Reserve Shutdown Hours:          | 0.0               | 0.0                 | 0.0               |
| 7. Net Electrical Energy Generated:      | 599,009           | 2,778,408           | 137,309,656       |

### CHALLENGES TO MAIN STEAM SAFETY / RELIEF VALVES

| Date<br>(YYMMDD) | Tag No. | Event Description         |
|------------------|---------|---------------------------|
|                  |         | No challenges this month. |

## UNIT SHUTDOWNS

Docket No.: 50-321  
 Unit Name: E. I. Hatch Unit 1  
 Date: June 2, 2003  
 Completed By: S. B. Rogers  
 Telephone: (912) 366-2000 x2279

Reporting Period: MAY 2003

| No.    | Date<br>(YYMMDD) | Type<br>F: Forced<br>S: Scheduled | Duration<br>(Hours) | Reason (1) | Method of<br>Shutting<br>Down (2) | Cause/Corrective Actions<br>Comments   |
|--------|------------------|-----------------------------------|---------------------|------------|-----------------------------------|--|
| 03-001 | 030419           | S                                 | 33.8                | B          | 4                                 | <p>The maintenance outage for repair of the electrical ground associated with the "B" Reactor Recirculation System continued.</p> <p>Investigation revealed the ground to be located in the "B" Reactor Recirculation Pump motor. The motor was replaced and the unit was returned to power operation.</p> |
| 03-002 | 030502           | S                                 | 0.2                 | B          | 5                                 | Shift manually tripped the Main Turbine for testing of the Main Generator reverse power relay.   |

**(1) 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)

**(2) METHOD**

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

**CAUSE/CORRECTIVE ACTION/COMMENTS:**

**NARRATIVE REPORT**

Unit 1 began the month of May in a maintenance outage for replacement of the "B" Reactor Recirculation Pump motor. Shift began withdrawing control rods for unit startup on May 1 and brought the reactor critical later the same day. Shift tied the Main Generator to the grid on May 2, then manually tripped the Main Turbine for testing of the Main Generator reverse power relay. Shift re-tied the generator to the grid on May 2 and began power ascension. The unit attained approximately 95% of rated thermal power on May 3. Shift reduced power to approximately 88% of rated thermal on May 4 to perform a rod pattern adjustment. The unit was returned to rated thermal power later that day. Shift reduced load to approximately 650 GMWe (~2070 CMWT) on May 23 to perform a control rod sequence exchange and control rod drive exercises. The unit was returned to rated thermal power on May 24. Shift later reduced load to approximately 880 GMWe (~2705 CMWT) on May 24 and performed monthly turbine testing. Shift then reduced load to approximately 825 GMWe (~2485 CMWT) on May 24 to perform a rod pattern adjustment. The unit was returned to rated thermal power on May 25. Shift maintained unit operation at rated thermal power for the remainder of the month.

Enclosure 2  
Plant Hatch Unit 2  
Monthly Operating Report  
May 2003

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## OPERATING DATA REPORT

|               |                      |
|---------------|----------------------|
| Docket No.:   | 50-366               |
| Unit Name:    | E. I. Hatch Unit 2   |
| Date:         | June 2, 2003         |
| Completed By: | S. B. Rogers         |
| Telephone:    | (912) 366-2000 x2279 |

### Operating Status

|   |                   |                     |                   |
|---|-------------------|---------------------|-------------------|
| 1. Reporting Period:                      | MAY 2003          |                     |                   |
| 2. Design Electrical Rating (Net MWe):    | 894               |                     |                   |
| 3. Maximum Dependable Capacity (Net MWe): | 870               |                     |                   |
|   | <u>This Month</u> | <u>Year To Date</u> | <u>Cumulative</u> |
| 4. Number of Hours Reactor Was Critical:  | 744.0             | 2,956.7             | 169,623.9         |
| 5. Hours Generator On Line:               | 744.0             | 2,921.4             | 165,241.3         |
| 6. Unit Reserve Shutdown Hours:           | 0.0               | 0.0                 | 0.0               |
| 7. Net Electrical Energy Generated:       | 641,249           | 2,510,470           | 123,128,372       |

### CHALLENGES TO MAIN STEAM SAFETY / RELIEF VALVES

| Date<br>(YYMMDD) | Tag No. | Event Description         |
|------------------|---------|---------------------------|
|                  |         | No challenges this month. |

## UNIT SHUTDOWNS

Docket No.: 50-366  
 Unit Name: E. I. Hatch Unit 2  
 Date: June 2, 2003  
 Completed By: S. B. Rogers  
 Telephone: (912) 366-2000 x2279

Reporting Period: MAY 2003

| No. | Date<br>(YYMMDD) | Type<br>F: Forced<br>S: Scheduled | Duration<br>(Hours) | Reason (1) | Method of<br>Shutting<br>Down (2) | Cause/Corrective Actions<br>Comments   |
|-----|------------------|-----------------------------------|---------------------|------------|-----------------------------------|--|
|     |                  |                                   |                     |            |                                   | No unit shutdowns occurred this month. |

**(1) 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)

**(2) METHOD**

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

**CAUSE/CORRECTIVE ACTION/COMMENTS:**

**NARRATIVE REPORT**

Unit 2 began the month of May operating at rated thermal power. Shift reduced load to approximately 835 GMWe (~2540 CMWT) on May 11 to perform control rod drive exercises. The unit was returned to rated thermal power later the same day. The unit experienced a trip of the "B" Reactor Recirculation Pump on May 18. Reactor power immediately decreased and stabilized at approximately 72% of rated thermal. Shift further reduced power to approximately 49% of rated thermal to stabilize the unit with only one reactor recirculation pump in service. Investigation revealed the pump tripped when a lightning strike occurred on plant site. Shift reduced power to approximately 38% of rated thermal on May 19 and re-started the "B" Reactor Recirculation Pump. The unit was returned to rated thermal power later the same day. Shift reduced load to approximately 855 GMWe (~2540 CMWT) on May 20 to perform a rod pattern adjustment. The unit was returned to rated thermal power later that day. Shift reduced load to approximately 890 GMWe (~2705 CMWT) on May 25 for monthly turbine testing. The unit was returned to rated thermal power later the same day. Shift maintained unit operation at rated thermal power for the remainder of the month.