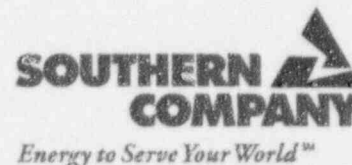


Lewis Sumner
Vice President
Hatch Project Support

Southern Nuclear
Operating Company, Inc.
40 Inverness Parkway
Post Office Box 1295
Birmingham, Alabama 35201
Tel 205.992.7279
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June 10, 1997

Docket Nos. 50-321
50-366

HL-5416

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

Edwin I. Hatch Nuclear Plant
Monthly Operating Reports

Gentlemen:

Enclosed are the May 1997 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 requirements.

Sincerely,

H. L. Sumner, Jr.

CLT/eb

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. P. H. Wells, Nuclear Plant General Manager
NORMS

U. S. Nuclear Regulatory Commission, Washington D. C.
Mr. N. B. Le, Licensing Project Manager - Hatch

U. S. Nuclear Regulatory Commission, Region II
Mr. L. A. Reyes, Regional Administrator
Mr. B. L. Holbrook, Senior Resident Inspector - Hatch

Utility Data Institute, Inc.
Mr. Fred Yost, Director - Research Services

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Enclosure 1

**Plant Hatch Unit 1
Monthly Operating Report
May 1997**

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PLANT E. I. HATCH - UNIT ONE

NARRATIVE REPORT

DOCKET NO.: 50-321

DATE: JUNE 3, 1997

COMPLETED BY: S. B. ROGERS

TELEPHONE: (912) 367-7781 x2878

MAY 1	0000	Shift continued to maintain rated thermal power.
MAY 9	2100	Shift began reducing load to approximately 720 GMWe to remove the "C" Condensate Pump from service. The pump was removed from service to repair a leaking cooling coil on the upper bearing of the pump motor.
MAY 9	2241	Shift began ascension to approximately 780 GMWe.
MAY 10	0145	The unit attained approximately 780 GMWe. Shift continued to maintain approximately 780 GMWe while repairs were being made to the "C" Condensate Pump motor.
MAY 10	1438	Shift began reducing load to approximately 760 GMWe to maintain Condensate Demineralizer effluent pressure greater than 70 psig.
MAY 10	2225	Shift began ascension to rated thermal power following repair of the "C" Condensate Pump motor.
MAY 10	2330	The unit attained rated thermal power.
MAY 31	2400	Shift continued to maintain rated thermal power.

OPERATING DATA REPORT

DOCKET NO.: 50-321
 DATE: JUNE 3, 1997
 COMPLETED BY: S. B. ROGERS
 TELEPHONE: (912) 367-7781 x2878

OPERATING STATUS

1. UNIT NAME:	E. I. HATCH - UNIT ONE
2. REPORT PERIOD:	MAY 1997
3. LICENSED THERMAL POWER (MWt):	2558
4. NAMEPLATE RATING (GROSS MWe):	850
5. DESIGN ELECTRICAL RATING (NET MWe):	822.1
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWe):	835
7. MAXIMUM DEPENDABLE CAPACITY (NET MWe):	800
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:	NO CHANGES
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWe):	NO RESTRICTIONS
10. REASONS FOR RESTRICTION, IF ANY:	N/A

	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	3623	187726
12. NUMBER OF HOURS REACTOR WAS CRITICAL:	744.0	3530.1	145762.9
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE:	744.0	3502.6	140430.1
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWh):	1896360	8892131	319206807
17. GROSS ELECTRICAL ENERGY GENERATED (MWh):	620614	2917007	102779729
18. NET ELECTRICAL ENERGY GENERATED (MWh):	595719	2799000	97882410
19. UNIT SERVICE FACTOR:	100.0%	96.7%	74.8%
20. UNIT AVAILABILITY FACTOR:	100.0%	96.7%	74.8%
21. UNIT CAPACITY FACTOR (USING MDC NET):	100.1%	96.6%	69.3%
22. UNIT CAPACITY FACTOR (USING DER NET):	97.4%	94.0%	66.8%
23. UNIT FORCED OUTAGE RATE:	0.0%	0.0%	10.0%
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
37 Day Refueling Outage tentatively scheduled for October 11, 1997.			
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:			N/A
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):			N/A

PLANT E. I. HATCH - UNIT ONE
AVERAGE DAILY POWER LEVEL
MAY 1997

DOCKET NO.: 50-321
DATE: JUNE 3, 1997
COMPLETED BY: S. B. ROGERS
TELEPHONE: (912) 367-7781 x2878

DAY	Net MWe
1	802
2	802
3	800
4	807
5	808
6	805
7	805
8	803
9	786
10	752
11	806
12	805
13	804
14	806
15	803
16	807
17	807
18	804
19	800
20	799
21	801
22	802
23	802
24	800
25	799
26	798
27	798
28	805
29	802
30	803
31	799

UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME: E. I. HATCH - UNIT ONE

REPORT MONTH: MAY 1997

DOCKET NO.: 50-321

DATE: JUNE 3, 1997

COMPLETED BY: S. B. ROGERS

TELEPHONE: (912) 367-7781 x2878

NO.	DATE	TYPE	DURATION (HOURS)	REASON	LICENSEE EVENT REPORT NUMBER	SYSTEM SC TO ED ME	COMPONENT CODE (SUBCODE)	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
								No significant power reductions occurred this month.

TYPE:

F-FORCED
S-SCHEDULED

REASON:

A-EQUIPMENT FAILURE (EXPLAIN)
B-MAINTENANCE OR TEST
C-REFUELING
D-REGULATORY RESTRICTION
E-OPERATOR TRAINING & LICENSE
F-ADMINISTRATIVE
G-OPERATIONAL ERROR (EXPLAIN)
H-OTHER (EXPLAIN)

METHOD:

1-MANUAL
2-MANUAL SCRAM
3-AUTOMATIC SCRAM
4-CONTINUATIONS
5-LOAD REDUCTION
9-OTHER (EXPLAIN)

EVENTS REPORTED INVOLVE
A GREATER THAN 20%
REDUCTION IN AVERAGE
DAILY POWER LEVEL FOR
THE PRECEDING 24 HOURS.

Enclosure 2

**Plant Hatch Unit 2
Monthly Operating Report
May 1997**

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Unit Shutdowns and Power Reductions	E2-4

PLANT E. I. HATCH - UNIT TWO**NARRATIVE REPORT**

DOCKET NO.: 50-366

DATE: JUNE 3, 1997

COMPLETED BY: S. B. ROGERS

TELEPHONE: (912) 367-7781 x2878

MAY 1	0000	Shift continued to maintain rated thermal power.
MAY 4	1930	Shift began reducing load to approximately 725 GMWe to backwash and precoat "F" Condensate Demineralizer.
MAY 4	2335	Shift began ascension to rated thermal power.
MAY 5	0055	The unit attained rated thermal power.
MAY 23	2240	Shift began reducing load to approximately 765 GMWe to test unit thermal performance (heat rate).
MAY 24	0225	Shift began reducing load to approximately 725 GMWe to perform a Rod Pattern Adjustment.
MAY 24	0345	Shift began reducing load to approximately 675 GMWe to perform Control Rod Drive Exercises on selected control rod drives.
MAY 24	0514	Shift began ascension to rated thermal power. Fuel preconditioning measures were implemented to prevent fuel degradation during ascension.
MAY 24	1050	The unit attained rated thermal power.
MAY 31	1649	Shift began reducing load to approximately 844 GMWe to perform a Rod Pattern Adjustment.
MAY 31	1710	Shift began ascension to rated thermal power.
MAY 31	1750	The unit attained rated thermal power.
MAY 31	2400	Shift continued to maintain rated thermal power.

OPERATING DATA REPORT

DOCKET NO.: 50-366
DATE: JUNE 3, 1997
COMPLETED BY: S. B. ROGERS
TELEPHONE: (912) 367-7781 x2878

OPERATING STATUS

1. UNIT NAME:	E. I. HATCH - UNIT TWO
2. REPORT PERIOD:	MAY 1997
3. LICENSED THERMAL POWER (MWt):	2558
4. NAMEPLATE RATING (GROSS MWe):	850
5. DESIGN ELECTRICAL RATING (NET MWe):	829.7
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWe):	853
7. MAXIMUM DEPENDABLE CAPACITY (NET MWe):	818
8. IF CHANGES OCCUR IN CAPACITY RATINGS	

(ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:

Design Electrical Rating (Item #5) was increased from 784 to 829.7 MWe due to re-rating of turbine following modifications to the High Pressure Turbine nozzle associated with Power Uprate.

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWe):	NO RESTRICTIONS
10. REASONS FOR RESTRICTION, IF ANY:	N/A

	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	3623	155352
12. NUMBER OF HOURS REACTOR WAS CRITICAL:	744.0	2746.4	121905.1
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE:	744.0	2679.4	117970.0
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWht):	1897172	6669363	264896097
17. GROSS ELECTRICAL ENERGY GENERATED (MWhe):	632258	2225434	86980897
18. NET ELECTRICAL ENERGY GENERATED (MWhe):	606145	2123642	82902804
19. UNIT SERVICE FACTOR:	100.0%	74.0%	75.9%
20. UNIT AVAILABILITY FACTOR:	100.0%	74.0%	75.9%
21. UNIT CAPACITY FACTOR (USING MDC NET):	99.6%	71.7%	69.4%
22. UNIT CAPACITY FACTOR (USING DER NET):	98.2%	70.6%	67.9%
23. UNIT FORCED OUTAGE RATE:	0.0%	2.5%	6.5%
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			N/A
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:			N/A
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):			N/A

PLANT E. I. HATCH - UNIT TWO
AVERAGE DAILY POWER LEVEL
MAY 1997

DOCKET NO.: 50-363
DATE: JUNE 3, 1997
COMPLETED BY: S. B. ROGERS
TELEPHONE: (912) 367-7781 x2878

DAY	Net MWe
1	817
2	818
3	815
4	798
5	823
6	819
7	820
8	819
9	815
10	820
11	821
12	820
13	818
14	819
15	815
16	818
17	818
18	817
19	814
20	811
21	813
22	816
23	807
24	780
25	814
26	813
27	812
28	819
29	816
30	817
31	815

UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME: E. I. HATCH - UNIT TWO

REPORT MONTH: MAY 1997

DOCKET NO.: 50-366

DATE: JUNE 3, 1997

COMPLETED BY: S. B. ROGERS

TELEPHONE: (912) 367-7781 x2878

NO.	DATE	TYPE	DURATION (HOURS)	REASON	LICENSEE EVENT REPORT NUMBER	SYSTEM SC TO ED ME	COMPONENT CODE (SUBCODE)	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
								No significant power reductions occurred this month.

TYPE:

F-FORCED
S-SCHEDULED

REASON:

A-EQUIPMENT FAILURE (EXPLAIN)
B-MAINTENANCE OR TEST
C-REFUELING
D-REGULATORY RESTRICTION
E-OPERATOR TRAINING & LICENSE
F-ADMINISTRATIVE
G-OPERATIONAL ERROR (EXPLAIN)
H-OTHER (EXPLAIN)

METHOD:

1-MANUAL
2-MANUAL SCRAM
3-AUTOMATIC SCRAM
4-CONTINUATIONS
5-LOAD REDUCTION
9-OTHER (EXPLAIN)

EVENTS REPORTED INVOLVE
A GREATER THAN 20%
REDUCTION IN AVERAGE
DAILY POWER LEVEL FOR
THE PRECEDING 24 HOURS.