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January 14, 1991

the southern electric system

W. G. Hairston, III
Senior Vice President
Nuclear Operations

ELV-02430
0794

Docket Nos. 50-424
50-425

Director, Office of Resource Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Gentlemen:

VOGTLE ELECTRIC GENERATING PLANT
MONTHLY OPERATING REPORTS

Enclosed are the December, 1990 monthly operating reports for Vogtle Units 1 and 2. These reports are submitted in accordance with Technical Specification 6.8.1.5.

Sincerely,

W. G. Hairston, III
W. G. Hairston, III

WGH, III/PAH/gm

Enclosures:

1. Monthly Operating Report - VEGP Unit 1
2. Monthly Operating Report - VEGP Unit 2
3. Challenges to PORV or Safety Valves - VEGP Units 1 and 2

xc: Georgia Power Company

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U. S. Nuclear Regulatory Commission

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ENCLOSURE 1

VOGTLE ELECTRIC GENERATING PLANT - UNIT 1
MONTHLY OPERATING REPORT FOR DECEMBER, 1990

TABLE OF CONTENTS

NARRATIVE REPORT	Page V1-1
OPERATING DATA REPORT	Page V1-2
AVERAGE DAILY POWER LEVEL	Page V1-3
UNIT SHUTDOWNS AND POWER REDUCTIONS	Page V1-4

NARRATIVE REPORT
UNIT 1

DOCKET NO. 50-424
DATE: JANUARY 5, 1991
COMPLETED BY: G. L. HOOPER
TELEPHONE: (404) 826-4104

DECEMBER 01 00:00 UNIT 1 AT 100% POWER WITH NO OPERATIONAL PROBLEMS.
DECEMBER 07 13:38 BEGAN POWER REDUCTION FOR RCS LEAKAGE INVESTIGATION AND
REPAIR OUTAGE.
DECEMBER 08 00:40 MANUALLY INITIATED TURBINE TRIP/ REACTOR TRIP.
DECEMBER 09 20:28 ENTERED MODE 4.
DECEMBER 12 17:02 BEGAN HEATUP FOR MODE 3 ENTRY.
DECEMBER 12 17:22 ENTERED MODE 3.
DECEMBER 14 16:00 ENTERED MODE 2.
DECEMBER 14 16:48 UNIT 1 REACTOR CRITICAL.
DECEMBER 14 22:04 ENTERED MODE 1.
DECEMBER 15 03:25 GENERATOR TIED TO THE GRID.
DECEMBER 17 06:16 UNIT 1 AT 100% POWER.
DECEMBER 18 19:39 MANUALLY TRIPPED REACTOR DUE TO LOSS OF STEAM GENERATOR
FEED PUMP B.
DECEMBER 20 16:40 ENTERED MODE 2.
DECEMBER 20 17:20 UNIT 1 REACTOR CRITICAL.
DECEMBER 20 21:08 ENTERED MODE 1.
DECEMBER 20 23:11 GENERATOR TIED TO THE GRID.
DECEMBER 21 16:00 UNIT 1 AT 100% POWER.
DECEMBER 25 12:10 BEGAN POWER REDUCTION FOR MAINTENANCE ON HDP A.
DECEMBER 30 06:25 UNIT 1 AT 100% POWER.
DECEMBER 31 23:59 UNIT 1 AT 100% POWER WITH NO OPERATIONAL PROBLEMS.

OPERATING DATA REPORT

DOCKET NO. 50-424
 DATE: JANUARY 5, 1991
 COMPLETED BY: G. L. HOOPER
 TELEPHONE: (404) 826-4104

OPERATING STATUS

- | | |
|---|-----------------|
| 1. UNIT NAME: | VEGP UNIT 1 |
| 2. REPORT PERIOD: | DECEMBER 90 |
| 3. LICENSED THERMAL POWER (Mwt): | 3411 |
| 4. NAMEPLATE RATING (GROSS MWe): | 1215 |
| 5. DESIGN ELECTRICAL RATING (NET MWe): | 1101 |
| 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWe): | 1133 |
| 7. MAXIMUM DEPENDABLE CAPACITY (NET MWe): | 1079 |
| 8. IF CHANGES OCCUR IN CAPACITY RATINGS
(ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS: | N/A |
| 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWe): | NO RESTRICTIONS |
| 10. REASONS FOR RESTRICTION, IF ANY: | N/A |

	THIS MONTH	YR. TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744	8760	31441
12. NUMBER OF HOURS REACTOR WAS CRITICAL:	538.2	7170.4	26458.5
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0	0
14. HOURS GENERATOR ON-LINE:	521.7	6984.4	25754.3
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0	0
16. GROSS THERMAL ENERGY GENERATED (MWH):	1692955	23204701	85193611
17. GROSS ELEC. ENERGY GENERATED (MWH):	570310	7742860	28294450
18. NET ELEC. ENERGY GENERATED (MWH):	532550	7340400	26761910
19. REACTOR SERVICE FACTOR	72.3%	81.9%	84.2%
20. REACTOR AVAILABILITY FACTOR	72.3%	81.9%	84.2%
21. UNIT SERVICE FACTOR:	70.1%	79.7%	81.9%
22. UNIT AVAILABILITY FACTOR:	70.1%	79.7%	81.9%
23. UNIT CAPACITY FACTOR (USING MDC NET):	66.3%	77.7%	78.80%
24. UNIT CAPACITY FACTOR (USING DER NET):	65.0%	76.1%	77.3%
25. UNIT FORCED OUTAGE RATE:	9.0%	2.5%	8.9%
26. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	NONE		
27. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	N/A		

UNIT 1 AVERAGE DAILY
POWER LEVEL

DOCKET NO. 50-424
DATE: JANUARY 5, 1991
COMPLETED BY: G. L. HOOPER
TELEPHONE: (404) 826-4104

DAY	Net Mw
1	1116 *
2	1107 *
3	1104 *
4	1114 *
5	1117 *
6	1115 *
7	1065
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	475
16	1011
17	1102 *
18	892
19	0
20	0
21	881
22	1095 *
23	1097 *
24	1114 *
25	1048
26	972
27	970
28	1018
29	966
30	1083 *
31	1106 *

* MDC CAN BE EXCEEDED UNDER OPTIMAL CONDITIONS

UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME: VEGP UNIT 1

DOCKET NO. 50-424
 DATE: JANUARY 5, 1991
 COMPLETED BY: G. L. HOOPER
 TELEPHONE: (404) 826-4104

REPORT MONTH DECEMBER 90

NO.	DATE	TYPE	DURATION (HOURS)	REASON	METHOD	LICENSEE EVENT REPORT NUMBER	SYSTEM	COMPONENT CODE (SUBCODE)	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
90-12	12/8	S	170.8	B	2	NA	BP	ISV	SEE BELOW
90-13	12/18	F	51.5	A	2	1-90-23	EA	XFMR	SEE BELOW

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 - AUTO. 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.

90-12

CAUSE: SCHEDULED OUTAGE TO IDENTIFY AND REPAIR COMPONENTS CAUSING RCS LEAKAGE.

CORRECTIVE ACTION: RHR LOOP ISOLATION VALVES WERE REPACKED TO REDUCE LEAKOFF.

90-13

CAUSE: FAILURE OF TRANSFORMER INB10X CAUSED LOSS OF SGFP B, RESULTING IN LOW STEAM GENERATOR LEVELS. THE SURGE ARRESTOR INSTALLED IN RESPONSE TO PREVIOUS FAILURES DID NOT PREVENT THIS FAILURE. HOWEVER, THE TRANSFORMER MAY HAVE BEEN PREVIOUSLY FATIGUED.

CORRECTIVE ACTION: TRANSFORMER INB10X WAS REPLACED. A REVIEW WAS INITIATED TO IDENTIFY AND DETERMINE THE FEASIBILITY OF REPLACING CERTAIN CRITICAL TRANSFORMERS WITH A DIFFERENT MODEL.

ENCLOSURE 2

VOGTLE ELECTRIC GENERATING PLANT - UNIT 2
MONTHLY OPERATING REPORT FOR DECEMBER, 1990

TABLE OF CONTENTS

NARRATIVE REPORT	Page V2-1
OPERATING DATA REPORT	Page V2-2
AVERAGE DAILY POWER LEVEL	Page V2-3
UNIT SHUTDOWNS AND POWER REDUCTIONS	Page V2-4

NARRATIVE REPORT
UNIT 2

DOCKET NO. 50-425
DATE: JANUARY 5, 1991
COMPLETED BY: G. L. HOOPER
TELEPHONE: (404) 826-4104

DECEMBER 01	00:00	UNIT 2 AT 33%, PREPARATION FOR TORSIONAL TESTING IN PROGRESS.
DECEMBER 01	00:07	MAIN TURBINE TRIPPED FOR OVERSPEED TRIP TESTING.
DECEMBER 03	00:39	GENERATOR TIED TO GRID.
DECEMBER 04	06:19	UNIT 2 AT 100% POWER.
DECEMBER 31	23:59	UNIT 2 AT 100% POWER WITH NO OPERATIONAL PROBLEMS.

OPERATING DATA REPORT

DOCKET NO. 50-425
 DATE: JANUARY 5, 1991
 COMPLETED BY: G. L. HOOPER
 TELEPHONE: (404) 826-4104

OPERATING STATUS

- | | |
|---|-----------------|
| 1. UNIT NAME: | VEGP UNIT 2 |
| 2. REPORT PERIOD: | DECEMBER 90 |
| 3. LICENSED THERMAL POWER (Mwt): | 3411 |
| 4. NAMEPLATE RATING (GROSS MWe): | 1215 |
| 5. DESIGN ELECTRICAL RATING (NET MWe): | 1101 |
| 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWe): | 1164 |
| 7. MAXIMUM DEPENDABLE CAPACITY (NET MWe): | 1110 |
| 8. IF CHANGES OCCUR IN CAPACITY RATINGS
(ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS: | N/A |
| 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWe): | NO RESTRICTIONS |
| 10. REASONS FOR RESTRICTION, IF ANY: | N/A |

	THIS MONTH	YR. TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744	8760	14185
12. NUMBER OF HOURS REACTOR WAS CRITICAL:	744.0	7325.7	12537.4
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0	0.0
14. HOURS GENERATOR ON-LINE:	695.5	7128.64	12234.9
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH):	2395968	21692132	38899245
17. GROSS ELEC. ENERGY GENERATED (MWH):	803743	7244472	13058438
18. NET ELEC. ENERGY GENERATED (MWH):	767583	6854922	12402088
19. REACTOR SERVICE FACTOR	100.0%	83.6%	88.4%
20. REACTOR AVAILABILITY FACTOR	100.0%	83.6%	88.4%
21. UNIT SERVICE FACTOR:	93.5%	81.4%	86.3%
22. UNIT AVAILABILITY FACTOR:	93.5%	81.4%	86.3%
23. UNIT CAPACITY FACTOR (USING MDC NET):	92.9%	70.5%	79.5%
24. UNIT CAPACITY FACTOR (USING DER NET):	93.7%	71.1%	79.4%
25. UNIT FORCED OUTAGE RATE:	0.0%	1.8%	2.3%
26. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	NONE		
27. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:		N/A	

UNIT 2 AVERAGE DAILY
POWER LEVEL

DOCKET NO. 50-425
DATE: JANUARY 5, 1991
COMPLETED BY: G. L. HOOPER
TELEPHONE: (404) 826-4104

DAY	Net MW
1	0
2	0
3	689
4	1109
5	1113 *
6	1113 *
7	1116 *
8	1113 *
9	1123 *
10	1125 *
11	1125 *
12	1123 *
13	1115 *
14	1115 *
15	1123 *
16	1117 *
17	1122 *
18	1111 *
19	1116 *
20	1121 *
21	1124 *
22	1117 *
23	1112 *
24	1126 *
25	1132 *
26	1131 *
27	1132 *
28	1132 *
29	1130 *
30	1118 *
31	1126 *

* MDC CAN BE EXCEEDED UNDER OPTIMAL CONDITIONS

UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME: VEGP UNIT 2

DOCKET NO. 50-425
 DATE: JANUARY 5, 1991
 COMPLETED BY: G. L. HOOPER
 TELEPHONE: (404) 826-4104

REPORT MONTH DECEMBER 90

NO.	DATE	T Y P E	DURATION (HOURS)	R E A S O N	M E T H O D	LICENSEE EVENT REPORT NUMBER	S Y S T E M	COMPONENT CODE (SUBCODE)	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
90-9	11/30	S	0.0	B	4	N/A	TA	TRB	SEE BELOW
90-10	12/01	S	48.5	B	1	N/A	TA	TRB	SEE BELOW

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 - AUTO. 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.

90-9

CAUSE: PLANNED DERATE FOR TURBINE TORSIONAL TESTING

CORRECTIVE ACTION: BEGAN POWER REDUCTION TO ALLOW MAIN GENERATOR AND TURBINE TO BE REMOVED FROM SERVICE IN PREPARATION FOR TURBINE OVERSPEED TRIP AND TORSIONAL TESTING.

90-10

CAUSE: SCHEDULED OUTAGE FOR TURBINE OVERSPEED AND TORSIONAL TESTING.

CORRECTIVE ACTION: MANUALLY TRIPPED MAIN TURBINE FOR OVERSPEED TEST, PERFORMED TURBINE TORSIONAL TESTING.

ENCLOSURE 3

VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 AND 2
MONTHLY OPERATING REPORT FOR DECEMBER, 1990

CHALLENGES TO PORV OR SAFETY VALVES

(ENCLOSURE 3)

VEGP UNITS 1 & 2

DOCKET NO: 50-424,50-425
DATE: JANUARY 5, 1991
COMPLETED BY: G. L. HOOPER
TELEPHONE: (404) 826-4104

CHALLENGES TO PORV OR SAFETY VALVES

DATE	TAG NUMBER	E V E N T T Y P E	DESCRIPTION
			THERE WERE NO CHALLENGES TO PORV OR SAFETY VALVES.

EVENT TYPE :

A-AUTOMATIC
M-MANUAL