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 AUTH. NAME AUTHOR AFFILIATION
 HALE, M. Carolina Power & Light Co.
 RICHEY, R.B. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for May 1989 for Shearon Harris Unit
 1.W/890614 ltr.

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NOTES: Application for permit renewal filed.

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Carolina Power & Light Company

HARRIS NUCLEAR PROJECT
P. O. Box 165
New Hill, North Carolina 27562

JUN 14 1989

File Number: SHF/10-15505
Letter Number: HO-893025 (O)

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United States Nuclear Regulatory Commission
Washington, DC 20555

HARRIS NUCLEAR PROJECT DEPARTMENT UNIT NO. 1
DOCKET NO. 50-400
LICENSE NO. NPF-63
MONTHLY OPERATIONS REPORT

Dear Sirs:

In accordance with Technical Specification 6.9.1.5 for the Harris Nuclear Power Plant, Unit No. 1, Carolina Power & Light Company herewith submits the report of operation statistics and shutdown experience for the month of May 1989.

Yours very truly,

R. B. Richey
Manager
Harris Nuclear Project

MWH:dj

Enclosure

cc: Messrs. W. H. Bradford (NRC-SHNPP)
S. D. Ebnetter (NRC-RII)
R. G. Oehl (DOE)

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DOCKET NO.: 050-400
UNIT: Harris Unit 1
DATE: May 1989
COMPLETED BY: Mark Hale

OPERATIONS SUMMARY

Harris Unit 1 operated at a 100.00 percent Availability Factor for the month of May with a 98.96 percent capacity factor. There were four load reductions. Details are provided on the Unit Shutdowns and Power Reduction Sheet.

There are 157 fuel assemblies in the reactor vessel and 52 spent fuel assemblies in the Harris Unit 1 spent fuel pool and 0 assemblies in the new fuel pool.

CP&L CO
RUN DATE 06/06/89
RUN TIME 12:33:02

UNIT PERFORMANCE DATA SYSTEM
OPERATING DATA REPORT
HARRIS UNIT 1

PAGE 1
RPD36-000

OPERATING STATUS

DOCKET NO. 050-400
COMPLETED BY MARK W. HALE
TELEPHONE (919)362-2944

- | | |
|---|---|
| 1. UNIT NAME: HARRIS UNIT 1 | <div style="border: 1px dashed black; padding: 5px;">NOTES There are 157 fuel assemblies in the reactor and 52 spent assemblies in the spent fuel pool.</div> |
| 2. REPORTING PERIOD: MAY 89 | |
| 3. LICENSED THERMAL POWER (MWT): 2775 | |
| 4. NAMEPLATE RATING (GROSS MWE): 950.9 | |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 900.0 | |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 920.0 | |
| 7. MAX DEPENDABLE CAPACITY (NET MWE): 860.0 | |
| 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS: N/A | |

9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): None.
10. REASONS FOR RESTRICTION IF ANY: N/A

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.00	3623.00	18264.00
12. NUMBER OF HOURS REACTOR CRITICAL	744.00	3541.20	14576.20
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	744.00	3502.65	14286.88
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	2034683.28	9333696.96	37582360.02
17. GROSS ELEC. ENERGY GEN. (MWH)	674908.00	3114507.00	12515014.00
18. NET ELEC. ENERGY GENERATED (MWH)	633189.00	2912185.00	11618501.00
19. UNIT SERVICE FACTOR	100.00	96.68	78.22
20. UNIT AVAILABILITY FACTOR	100.00	96.68	78.22
21. UNIT CAP. FACTOR (USING MDC NET)	98.96	93.47	73.97
22. UNIT CAP. FACTOR (USING DER NET)	94.56	89.31	70.68
23. UNIT FORCED OUTAGE RATE	.00	3.32	5.98
24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

* Refueling Outage , November 11 th , 7 weeks.

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP:
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

INITIAL CRITICALITY -----

INITIAL ELECTRICITY -----

COMMERCIAL OPERATION -----

* NOTE: CP&L Management will meet in the near future to discuss a new scheduled start date of October 21, 1989. The outcome of the meeting will be reported in the June Report.

CP&L CO
RUN DATE 06/06/89
RUN TIME 12:33:00

POINT PERFORMANCE DATA SYSTEM
APPENDIX B - AVERAGE DAILY POWER LEVEL
HARRIS UNIT 1

PAGE 1
RPD39-000

DOCKET NO. 050-400
COMPLETED BY MARK W. HALE
TELEPHONE (919)362-2944

MAY 1989

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	849	17	866
2	861	18	860
3	873	19	859
4	874	20	857
5	862	21	851
6	865	22	812
7	882	23	720
8	883	24	822
9	876	25	852
10	873	26	845
11	879	27	814
12	877	28	850
13	875	29	771
14	870	30	851
15	865	31	825
16	865		

1.16 - 8

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 6/6/89
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919) 362-2944

REPORT MONTH: MAY 1989

No.	Date	T ¹ y p e	Duration (Hours)	R ² e a s o n	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
89-014	890522	F	00	A	5	N/A	HH	MOTORX	Turbine runback to 86% power due to the loss of Heater Drain Pump "1A". Investigation revealed the heater drain pump motor was shorted to ground on the "A" phase. The motor was replaced and unit was returned to full load.

1

F: Forced
 S: Scheduled

2

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)

3

Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continued
 5-Reduced Load
 6-Other

4

Exhibit G-Instructions
 for Preparation of Data
 Entry Sheets for Licensee
 Event Report (LER) File
 (NUREG-0161)

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Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 6/6/89
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919) 362-2944

REPORT MONTH: MAY 1989

No.	Date	T ¹ y p e	Duration (Hours)	R ² e a s o n	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
89-015	890527	F	00	A	5	N/A	PA	CKTBRK	Load reduced to 70% to isolate Electrical Bus 1D2 due to a breaker failure on 1B Instrument Air Compressor. The breaker was repaired and unit was restored to full load.

- 1
 F: Forced
 S: Scheduled
- 2
 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)

- 3
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continued
 5-Reduced Load
 6-Other

- 4
 Exhibit G-Instructions
 for Preparation of Data
 Entry Sheets for Licensee
 Event Report (LER) File
 (NUREG-0161)
- 5
 Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 6/6/89
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919)-362-2944

REPORT MONTH: MAY 1989

No.	Date	T ¹ y p e	Duration (Hours)	R ² e a s o n	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
89-016	890528	S	00	B	5	N/A	HA	VALVEX	Load reduced to 70% to perform turbine valve testing. The required tests were completed and unit was returned to full power.

1

F: Forced
 S: Scheduled

2

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)

3

Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continued
 5-Reduced Load
 6-Other

4

Exhibit G-Instructions
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Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 6/6/89
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919) 362-2944

REPORT MONTH: MAY 1989

No.	Date	T ¹ y p e	Duration (Hours)	R ² e a s o n	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
89-017	890531	F	00	A	5	N/A	PA	CKTBRK	Load reduced to 85% to isolate Electrical Bus 1D2 due to a breaker failure on 1B Instrument Air Compressor. The breaker was replaced and unit was restored to full load. The failed breaker will be sent to the vendor for evaluation and repair.

- 1
 F: Forced
 S: Scheduled
- 2
 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)

- 3
 Method:
 1-Manual
 2-Manual Scram
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 4-Continued
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