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

SUBJECT: Monthly operating rept for Oct 1989 for Harris Nuclear Power Plant,Unit 1.W/891115 ltr.

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Carolina Power & Light Company

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

NOV 1 5 1989

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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 October 1989.

Yours very truly,

R. B. Richey
Manager
Harris Nuclear Project

MWH:kdl

Enclosure

cc: Messrs. S. D. Ebneter (NRC-RII)
R. G. Oehl (DOE)
J. E. Tedrow (NRC-SHNPP)

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MEM/DATAREPa/1/0S4

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

OPERATIONS SUMMARY

Harris Unit 1 operated at a 28.88 percent Availability Factor for the month of October with a 27.93 percent capacity factor. There was one reactor trip and one refueling outage. Details are provided on the Unit Shutdowns and Power Reduction Sheet.

There are 157 fuel assemblies in the reactor vessel and 124 spent fuel assemblies in Spent Fuel Pool B. 72 of the spent fuel assemblies are BWR and were shipped to Harris from CP&L's Brunswick Plant. There are also 52 new PWR assemblies in Spent Fuel Pool B for Fuel Cycle 3 and 0 assemblies in the new fuel pool. One cask of 18 assemblies from Brunswick remains in the Fuel Handling area for off loading and storage.

PLANT PERFORMANCE DATA SYSTEM
OPERATING DATA REPORT
HARRIS UNIT 1

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

OPERATING STATUS

1. UNIT NAME: HARRIS UNIT 1
2. REPORTING PERIOD: OCTOBER 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

NOTES There are 157 assemblies in the reactor, 124 spent fuel assemblies in Spent Fuel Pool B, 72 of the spent assemblies are BWR and were shipped from Brunswick. There are 52 new PWR assemblies in Spent Fuel Pool B for Fuel Cycle 3.

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	CUMULATIVE
11. HOURS IN REPORTING PERIOD	745.00	7296.00	21937.00
12. NUMBER OF HOURS REACTOR CRITICAL	215.15	6684.35	17719.35
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	215.15	6645.80	17430.03
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	596356.38	17961647.04	46210310.10
17. GROSS ELEC. ENERGY GEN. (MWH)	199246.00	5944200.00	15344707.00
18. NET ELEC. ENERGY GENERATED (MWH)	178967.00	5555595.00	14261911.00
19. UNIT SERVICE FACTOR	28.88	91.09	79.45
20. UNIT AVAILABILITY FACTOR	28.88	91.09	79.45
21. UNIT CAP. FACTOR (USING MDC NET)	27.93	88.54	75.60
22. UNIT CAP. FACTOR (USING DER NET)	26.69	84.61	72.24
23. UNIT FORCED OUTAGE RATE	4.16	1.91	5.01

24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 12/11/89
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

INITIAL CRITICALITY	---------	---------
INITIAL ELECTRICITY	---------	---------
COMMERCIAL OPERATION	---------	---------

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

OCTOBER 1989

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	864	17	-12
2	856	18	-11
3	859	19	-11
4	874	20	-11
5	878	21	-11
6	864	22	-11
7	869	23	-11
8	881	24	-11
9	848	25	-11
10	-36	26	-13
11	-28	27	-13
12	-31	28	-11
13	-20	29	-11
14	-17	30	-11
15	-16	31	-11
16	-19		

MEM/DATAREPa/3/OS4

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
UNIT NAME: Harris
DATE: 11/7/89
COMPLETED BY: M. W. Hale
TELEPHONE: (919) 362-2944

REPORT MONTH: OCTOBER 1989

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence *
89-023	891009	F	9.35	A	3	89-017	HA	ELECON	Reactor Trip from full power due to Main Generator/Turbine Trip. The "A" phase of the Iso-Phase Bus Duct shorted to the outer cover of the housing, and the "B" main power transformer shorted to ground. The fault currents from the shorts damaged the neutral bus and ignited three fires, including a hydrogen fire underneath the main generator. The fires were extinguished and repairs are being implemented during the refueling outage.

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

* Corrective Action to prevent recurrence and additional information are provided on the Licensee Event Report.

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
UNIT NAME: Harris
DATE: 11/7/89
COMPLETED BY: M. W. Hale
TELEPHONE: (919) 362-2944

REPORT MONTH: OCTOBER 1989

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
89-024	891010	S	520.50	C	4	N/A	N/A	N/A	The unit remained shutdown from the previous event (89-023) and work began on the scheduled cycle 3 refueling outage.

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

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