

## ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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AUTH.NAME AUTHOR AFFILIATION  
HALE,M.W. Carolina Power & Light Co.  
WATSON,R.A. Carolina Power & Light Co.  
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Nov 1988 for Harris Nuclear Proj  
Dept Unit 1.W/881215 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

NOTES: Application for permit renewal filed.

05000400

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PLANT PERFORMANCE DATA SYSTEM  
OPERATING DATA REPORT  
HARRIS UNIT 1

PAGE 1  
RPD36-000

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

OPERATING STATUS

	NOTES
1. UNIT NAME: HARRIS UNIT 1	
2. REPORTING PERIOD: NOVEMBER 88	There are 157 fuel assemblies in
3. LICENSED THERMAL POWER (MWT): 2775	the reactor and 52 spent fuel
4. NAMEPLATE RATING (GROSS MWE): 950.9	assemblies in the spent fuel pool.
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	CUMULATIVE
11. HOURS IN REPORTING PERIOD	720.00	8040.00	13897.00
12. NUMBER OF HOURS REACTOR CRITICAL	720.00	5939.34	10389.23
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	706.68	5823.73	10147.33
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1904147.28	15375688.92	26525834.28
17. GROSS ELEC. ENERGY GEN. (MWH)	642179.00	5151501.00	8816719.00
18. NET ELEC. ENERGY GENERATED (MWH)	601949.00	4783190.00	8162019.00
19. UNIT SERVICE FACTOR	98.15	72.43	73.02
20. UNIT AVAILABILITY FACTOR	98.15	72.43	73.02
21. UNIT CAP. FACTOR (USING MDC NET)	97.21	69.18	68.29
22. UNIT CAP. FACTOR (USING DER NET)	92.89	66.10	65.26
23. UNIT FORCED OUTAGE RATE	1.85	4.68	7.22
24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

Maintenance, 12/14/88, 4½ days

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 12/19/88  
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

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PLANT 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

NOVEMBER 1988

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	95	17	872
2	635	18	878
3	625	19	889
4	848	20	869
5	869	21	882
6	878	22	888
7	884	23	886
8	879	24	890
9	881	25	889
10	867	26	878
11	880	27	859
12	888	28	876
13	883	29	891
14	884	30	889
15	880		
16	870		

## UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400  
 UNIT NAME: Harris  
 DATE: 12/6/88  
 COMPLETED BY: M. W. Hale  
 TELEPHONE: (919) 362-2944

REPORT MONTH: NOVEMBER 1988

No.	Date	T <sup>1</sup> y p e	Duration (Hours)	R <sup>2</sup> e a s o n	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective * Action to Prevent Recurrence
88-025	881030	F	13.32	H	4	88-032	HH	PumpXX	<p>Manual reactor trip from 98% power due to loss of normal feedwater caused by the loss of 1B heater drain pump. The loss of the heater drain pump caused a turbine runback to 50% load. While the reactor power was being reduced to match turbine load, 1B condensate booster pump tripped followed by a loss of both main feed pumps.</p> <p>The loss of the 1B heater drain pump was caused by debris in the 3A feedwater heater (left by previous maintenance activities). The debris was removed and the unit was returned to service.</p>

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 as per the License Event Report



Carolina Power & Light Company

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

DEC. 15 1988

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United States Nuclear Regulatory Commission  
Washington, D.C. 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 November 1988.

Yours very truly,

R. A. Watson  
Vice President  
Harris Nuclear Project

MWH:dj

Enclosure

cc: Messrs. W. H. Bradford (NRC-SHNPP)  
M. L. Ernst (NRC-RII)  
R. G. Oehl (DOE)  
J. M. Taylor (NRC)

MEM/MoOperRep/1/OS1

IEP  
11

1000 11 210

DOCKET NO.: 050-400  
UNIT: Harris Unit 1  
DATE: November 1988  
COMPLETED BY: Mark Hale

#### OPERATIONS SUMMARY

Harris Unit 1 operated at a 98.15 percent Availability Factor for the month of November with a 97.21 percent capacity factor. There was 1 continued off-line outage. 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.