

DOCKET NO.: 050-400
UNIT: Harris Unit 1
DATE: August 1987
COMPLETED BY: Mark Hale

OPERATIONS SUMMARY

Harris Unit 1 operated at a 90.48 percent Availability Factor for the month of August with a 85.26 capacity factor. There was 1 reactor trip, 2 manual shutdowns, and 1 load reduction. Details are provided in the Unit Shutdowns and Power Reduction sheets.

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

8709180373 870831
PDR ADDCK 05000400
R PDR

IE24 11

CP&L CO
RUN DATE 09/08/87
RUN TIME 09:27:25

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: AUGUST 87 | |
| 3. LICENSED THERMAL POWER (MWT): 2775 | |
| 4. NAMEPLATE RATING (GROSS MWE): 950.0 | |
| 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	2928.00	2928.00
12. NUMBER OF HOURS REACTOR CRITICAL	719.40	2532.62	2532.62
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	673.17	2443.97	2443.97
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1817114.40	6272614.44	6272614.44
17. GROSS ELEC. ENERGY GEN. (MWH)	588029.00	2038597.00	2038597.00
18. NET ELEC. ENERGY GENERATED (MWH)	545537.00	1880322.00	1880322.00
19. UNIT SERVICE FACTOR	90.48	83.47	83.47
20. UNIT AVAILABILITY FACTOR	90.48	83.47	83.47
21. UNIT CAP. FACTOR (USING MDC NET)	85.26	74.67	74.67
22. UNIT CAP. FACTOR (USING DER NET)	81.47	71.35	71.35
23. UNIT FORCED OUTAGE RATE	9.52	6.40	6.40
24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): SURVEILLANCE TEST OUTAGE / OCTOBER 10, 1987 / 31 DAYS			

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

CP&L CO
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RUN TIME 09:27:24

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

PAGE
RPD39-000

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

AUGUST 1987

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	839	17	829
2	837	18	830
3	836	19	834
4	758	20	840
5	380	21	841
6	830	22	837
7	707	23	838
8	-39	24	847
9	16	25	843
10	795	26	838
11	838	27	827
12	838	28	825
13	842	29	837
14	839	30	846
15	836	31	82
16	789		

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400

UNIT NAME: Harris

DATE: 9/3/87

COMPLETED BY: M. W. Hale

TELEPHONE: (919) 362-2944

REPORT MONTH: AUGUST 1987

No.	Date	Type	Duration (Hours)	Reason	Method of Shutting Down Reactor	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective * Action to Prevent Recurrence
87-032	870804	F	7.77	G	3	87-041	ZZ	XXXXXX	Reactor Trip from full power due to the loss of instrument air caused by an improperly prepared valve clearance restoration lineup. The clearance inadvertently required that the instrument air header be isolated causing air operated valves to drift to fail safe positions. Both 1A and 1B heater drain pumps tripped, followed by mainfeed pump 1A. Reactor tripped on 1A steam generator feed flow steam flow mismatch with low steam generator level. Clearance procedures will be revised and plant operating personnel are being reinstructed to understand the need for proper system line-up upon restoration of a plant clearance. Unit was returned to service.

F: Forced

S: Scheduled

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 1 - Same Source

*Corrective action to prevent recurrence per the Licensee Event Report

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 9/3/87
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919) 362-2944

REPORT MONTH: AUGUST 1987

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
87-033	870807	F	43.23	A	1	N/A	HA	PIPEXX	Unit removed from service to repair a steam leak on drip leg of governor valve #4. The repair weld was performed as per Westinghouse procedures. Drain line welds on the main turbine will be inspected during the next planned outage. Unit was returned to service.

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
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UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 9/3/87
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919) 362-2944

REPORT MONTH: AUGUST 1987

No.	Date	Type	Duration (Hours)	Reason	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
87-034	870816	S	00	B	5	N/A	HA	VALVEX	Load reduction to 70% to perform a turbine valve test. The surveillance test was completed and the unit was returned to service.

1	2	3	4
F: Forced S: Scheduled	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)	Method: 1-Manual 2-Manual Scram 3-Automatic Scram 4-Continued 5-Reduced Load 6-Other	Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161) Exhibit 1 - Same Source

UNIT SHUTDOWNS AND POWER REDUCTION

DOCKET NO.: 050-400
 UNIT NAME: Harris
 DATE: 9/3/87
 COMPLETED BY: M. W. Hale
 TELEPHONE: (919) 362-2944

REPORT MONTH: AUGUST 1987

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
87-035	870831	F	19.83	A	1	87-050	CB	VALVEX	Unit removed from service due to requirement of Plant Technical Specification 3.4.6.2. The amount of unidentified reactor coolant leakage was determined to be greater than one GPM. The unit was placed in Hot Standby and Maintenance personnel entered the containment and implemented repairs to leaking valves. The repairs were completed and the unit was returned to service.

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
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*Corrective action to prevent recurrence per the Licensee Event Report.



Carolina Power & Light Company

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

SEP 14 1987

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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 Specifications 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 August 1987.

Yours very truly,

R. A. Watson
Vice President
Harris Nuclear Project

MWH:gmw

Enclosure

cc: Dr. J. Nelson Grace (NRC)
Messrs. J. M. Taylor (NRC)
G. F. Maxwell (NRC-SHNPP)
R. G. Oehl (DOE)

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