



FEB 19 2002

SERIAL: HNP-02-016

United States Nuclear Regulatory Commission  
ATTENTION: Document Control Desk  
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400/LICENSE NO. NPF-63  
ANNUAL OPERATING REPORT - 2001

Dear Sir or Madam:

In accordance with Harris Nuclear Plant Technical Specification 6.9.1.2, Carolina Power & Light Company provides the Annual Operating Report. This report includes information regarding; (1) individuals receiving exposures greater than 100 mrem/yr and their associated man-rem exposure according to work and job functions, (2) primary coolant specific activity limits, and (3) challenges to the pressurizer power-operated relief valves and safety valves for 2001.

Questions regarding this submittal may be referred to Mr. J. R. Caves at (919) 362-3137.

Sincerely,

R. J. Field  
Manager, Regulatory Affairs  
Harris Nuclear Plant

MGW

Enclosure

- c: Mr. J. B. Brady (NRC Senior Resident Inspector, HNP)  
Mr. J. M. Goshen (NRR Project Manager, HNP)  
Mr. L. A. Reyes (NRC Regional Administrator, Region II)  
Ms. S. A. Burrows (NRC REIRS Project Manager)

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RIMS II  
NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION, 2001  
HARRIS PLANT

| WORK AND JOB FUNCTION                      | NUMBER OF PERSONNEL > 100 MREM |          |            | TOTAL MAN-REM |              |                |
|--|--------------------------------|----------|------------|---------------|--------------|----------------|
|  | STAT                           | UTIL     | CNTR       | STAT          | UTIL         | CNTR           |
| <b>REACTOR OPERATIONS AND SURVEILLANCE</b> |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 2                              | 0        | 410        | 0.314         | 0.000        | 134.914        |
| OPERATING PERSONNEL                        | 14                             | 0        | 0          | 1.990         | 0.000        | 0.000          |
| HEALTH PHYSICS PERSONNEL                   | 13                             | 0        | 37         | 2.124         | 0.000        | 9.644          |
| SUPERVISORY PERSONNEL                      | 0                              | 0        | 25         | 0.000         | 0.000        | 8.151          |
| ENGINEERING PERSONNEL                      | 2                              | 0        | 68         | 0.245         | 0.000        | 22.338         |
| <b>ROUTINE MAINTENANCE</b>                 |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 0                              | 0        | 22         | 0.000         | 0.000        | 4.556          |
| OPERATING PERSONNEL                        | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| HEALTH PHYSICS PERSONNEL                   | 0                              | 0        | 1          | 0.000         | 0.000        | 0.269          |
| SUPERVISORY PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| ENGINEERING PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| <b>INSERVICE INSPECTION</b>                |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| OPERATING PERSONNEL                        | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| HEALTH PHYSICS PERSONNEL                   | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| SUPERVISORY PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| ENGINEERING PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| <b>SPECIAL MAINTENANCE</b>                 |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| OPERATING PERSONNEL                        | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| HEALTH PHYSICS PERSONNEL                   | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| SUPERVISORY PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| ENGINEERING PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| <b>WASTE PROCESSING</b>                    |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| OPERATING PERSONNEL                        | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| HEALTH PHYSICS PERSONNEL                   | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| SUPERVISORY PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| ENGINEERING PERSONNEL                      | 0                              | 0        | 0          | 0.000         | 0.000        | 0.000          |
| <b>REFUELING</b>                           |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 56                             | 1        | 51         | 14.754        | 0.171        | 10.484         |
| OPERATING PERSONNEL                        | 10                             | 0        | 1          | 1.779         | 0.000        | 0.107          |
| HEALTH PHYSICS PERSONNEL                   | 11                             | 0        | 9          | 2.674         | 0.000        | 1.602          |
| SUPERVISORY PERSONNEL                      | 4                              | 0        | 1          | 0.600         | 0.000        | 0.172          |
| ENGINEERING PERSONNEL                      | 10                             | 2        | 15         | 2.423         | 0.304        | 2.551          |
| <b>TOTAL</b>                               |                                |          |            |               |              |                |
| MAINTENANCE PERSONNEL                      | 58                             | 1        | 483        | 15.068        | 0.171        | 149.954        |
| OPERATING PERSONNEL                        | 24                             | 0        | 1          | 3.769         | 0.000        | 0.107          |
| HEALTH PHYSICS PERSONNEL                   | 24                             | 0        | 47         | 4.798         | 0.000        | 11.515         |
| SUPERVISORY PERSONNEL                      | 4                              | 0        | 26         | 0.600         | 0.000        | 8.323          |
| ENGINEERING PERSONNEL                      | 12                             | 2        | 83         | 2.668         | 0.304        | 24.889         |
| <b>GRAND TOTAL</b>                         | <b>122</b>                     | <b>3</b> | <b>640</b> | <b>26.903</b> | <b>0.475</b> | <b>194.788</b> |

2001 R.G. 1.16 Report

NOTES:

- (1) The total dose in this table of 222.166 man-rem is based on electronic dosimeter readings for personnel who received >100 mrem during 2001. Total electronic dosimeter dose for all personnel was 266.449 man-rem. Official TEDE dose for all personnel based on TLD readings (DDE) plus calculated internal (CEDE) dose was 252.241 man-rem.
- (2) STAT = Harris Plant staff  
UTIL = CP&L non-Harris personnel  
CNTR = Contractor

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## 2001 ANNUAL OPERATING REPORT - PRIMARY COOLANT IODINE SPIKES

During 2001, activity levels in the primary coolant did not exceed 1.0  $\mu\text{Ci}/\text{gram}$  dose equivalent I-131 or 100/E-bar  $\mu\text{Ci}/\text{gram}$  gross radioactivity as set forth in Technical Specification 3.4.8.

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2001 ANNUAL OPERATING REPORT - PRESSURIZER RELIEF AND SAFETY VALVE CHALLENGES

During 2001, there were no challenges to the pressurizer power-operated relief valves (PORVs) or safety valves.