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

SUBJECT: Annual rept of individuals receiving exposures greater than 100 mrem/yr & associated manrem exposure for 1988.

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NOTES: Application for permit renewal filed.      05000400

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Carolina Power & Light Company

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

FEB 01 1989

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Washington, DC 20555

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

Gentlemen:

In accordance with Technical Specification 6.9.1.2 for the Shearon Harris Nuclear Power Plant, Unit No. 1, Carolina Power and Light Company herewith submits the annual report of (a) individuals receiving exposures greater than 100 mrem/yr and their associated manrem exposure according to work and job functions, (b) primary coolant iodine spikes, and (c) challenges to the pressurizer power-operated relief valves (PORVs) and primary safety valves for 1988.

Very truly yours,

*CS Hinman FOR*

R. A. Watson  
Vice President  
Harris Nuclear Project

8902070068 881231  
PDR ADOCK 05000400  
R PNU

MGW:dj

Enclosure

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

MEM/HO-3900110/1/OS1

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RIMS II  
NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION, 1988  
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	4	0	5	1.201	0.040	4.614
OPERATING PERSONNEL	33	1	11	10.420	0.128	5.598
HEALTH PHYSICS PERSONNEL	19	0	40	7.134	0.060	13.003
SUPERVISORY PERSONNEL	0	0	0	0.087	0.025	0.020
ENGINEERING PERSONNEL	0	0	1	0.452	0.120	0.360
<b>ROUTINE MAINTENANCE</b>						
MAINTENANCE PERSONNEL	27	9	48	7.976	2.297	15.288
OPERATING PERSONNEL	0	0	1	0.027	0.000	0.495
HEALTH PHYSICS PERSONNEL	0	0	6	0.362	0.011	2.356
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	4	1	2	1.331	0.297	1.846
<b>INSERVICE INSPECTION</b>						
MAINTENANCE PERSONNEL	10	1	10	3.740	0.389	4.403
OPERATING PERSONNEL	0	0	0	0.109	0.000	0.095
HEALTH PHYSICS PERSONNEL	22	0	23	5.657	0.080	7.232
SUPERVISORY PERSONNEL	0	1	0	0.060	0.125	0.000
ENGINEERING PERSONNEL	19	1	26	6.883	0.647	16.482
<b>SPECIAL MAINTENANCE</b>						
MAINTENANCE PERSONNEL	27	11	101	10.256	3.332	49.636
OPERATING PERSONNEL	0	0	2	0.243	0.000	0.805
HEALTH PHYSICS PERSONNEL	9	0	26	3.533	0.061	7.097
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.090
ENGINEERING PERSONNEL	13	4	84	4.626	1.061	42.386
<b>WASTE PROCESSING</b>						
MAINTENANCE PERSONNEL	0	0	0	0.000	0.000	0.315
OPERATING PERSONNEL	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	2	0	0	1.345	0.000	0.110
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.000	0.000	0.032
<b>REFUELING</b>						
MAINTENANCE PERSONNEL	0	0	0	0.210	0.065	0.070
OPERATING PERSONNEL	0	0	0	0.172	0.005	0.000
HEALTH PHYSICS PERSONNEL	0	0	0	0.100	0.000	0.175
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.160	0.058	0.815
<b>TOTAL</b>						
MAINTENANCE PERSONNEL	68	21	164	23.383	6.123	74.326
OPERATING PERSONNEL	33	1	14	10.971	0.133	6.993
HEALTH PHYSICS PERSONNEL	52	0	95	18.131	0.212	29.973
SUPERVISORY PERSONNEL	0	1	0	0.147	0.150	0.110
ENGINEERING PERSONNEL	36	6	113	13.452	2.183	61.921
<b>GRAND TOTAL</b>	<b>189</b>	<b>29</b>	<b>386</b>	<b>66.084</b>	<b>8.801</b>	<b>173.323</b>

Notes: (1) Dose based on pocket dosimeters  
 (2) Stat = Harris Plant staff  
 Util = CP&L non-Harris personnel  
 Cntr = Contractor

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Page 3

1988 ANNUAL REPORT - PRIMARY COOLANT IODINE SPIKES

During 1987, the primary coolant did not exceed 1.0  $\mu\text{Ci}/\text{gram}$  dose equivalent I-131 or  $> 100/E/\mu\text{Ci}/\text{gram}$  dose as set forth in Technical Specification 3.4.8.

1988 ANNUAL REPORT - PRIMARY SAFETY AND RELIEF VALVE CHALLENGES

On October 20, 1988, pressurizer power operated relief valve (PORV) 1-PCV-444B lifted and released approximately 28 gallons of reactor coolant to the Pressurizer Relief Tank. The PORV was immediately reshut. Actual system pressure was not the initiating factor for this event based on normal pressure readings observed through protection channels prior to the PORV lifting. The cause of the event was determined to be due to Radio Frequency Interference from a portable radio used by Operations personnel inside containment at the time of the event. Operations personnel were instructed to use the phone system for future communications. Subsequently, no similar incidents have been observed.

