



Carolina Power & Light Company
P.O. Box 10429
Southport, NC 28461-0429

MAR 18 1999

SERIAL: BSEP 99-0019

T.S. 5.6.1

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
OCCUPATIONAL RADIATION EXPOSURE REPORT

Gentlemen:

In accordance with Technical Specification 5.6.1 for the Brunswick Steam Electric Plant Unit Nos. 1 and 2, Carolina Power and Light Company submits the Occupational Radiation Exposure Report for January 1, 1998, through December 31, 1998. The total person-rem data provided in the enclosure reflects the exposure for personnel receiving greater than 100 mrem per year.

This submittal contains no commitments. Please refer any questions regarding this submittal to Mr. Warren J. Dorman, Supervisor - Licensing, at (910) 457-2068.

Sincerely,

Keith R. Jury
Manager - Regulatory Affairs
Brunswick Steam Electric Plant

GMT

Enclosure:

Occupational Radiation Exposure Report

9903250315 981231
PDR ADOCK 05000324
R PDR

240127

IE56

cc (with enclosure):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Mr. Luis A. Reyes, Regional Administrator
Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303

U. S. Nuclear Regulatory Commission
ATTN: Mr. Theodore A. Easlick, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission
ATTN: Mr. David C. Trimble, Jr. (Mail Stop OWFN 8G9)
11555 Rockville Pike
Rockville, MD 20852-2738

The Honorable Jo A. Sanford
Chair - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510

ENCLOSURE

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2 NRC DOCKET NOS. 50-325 AND 50-324 OPERATING LICENSE NOS. DPR-71 AND DPR-62 OCCUPATIONAL RADIATION EXPOSURE REPORT

NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION
JANUARY 1, 1998, THROUGH DECEMBER 31, 1998 *

WORK AND JOB FUNCTION	NUMBER OF PERSONNEL > 100 MREM			TOTAL PERSON-REM		
	STATION	UTILITY	CONTRACT	STATION	UTILITY	CONTRACT
REACTOR OPERATORS AND SURVEILLANCE						
MAINTENANCE PERSONNEL	1	0	2	0.133	0.000	0.536
OPERATING PERSONNEL	60	0	46	21.441	0.000	8.895
HEALTH PHYSICS PERSONNEL	61	0	34	23.569	0.000	13.173
SUPERVISORY PERSONNEL	3	0	0	1.076	0.000	0.000
ENGINEERING PERSONNEL	13	0	1	2.838	0.000	0.926
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	152	3	221	74.741	1.715	103.364
OPERATING PERSONNEL	3	0	0	1.051	0.000	0.000
HEALTH PHYSICS PERSONNEL	14	0	7	4.084	0.000	2.242
SUPERVISORY PERSONNEL	6	0	1	2.228	0.000	1.739
ENGINEERING PERSONNEL	17	1	48	6.146	0.239	21.345
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	3	0	19	0.580	0.000	6.993
OPERATING PERSONNEL	2	0	0	0.732	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	0	0.000	0.000	0.000
SUPERVISORY PERSONNEL	1	0	0	0.522	0.000	0.000
ENGINEERING PERSONNEL	7	1	23	2.880	0.179	11.615
SPECIAL MAINTENANCE **						
MAINTENANCE PERSONNEL	4	0	11	1.056	0.000	2.024
OPERATING PERSONNEL	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	2	0.000	0.000	0.309
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	7	0.000	0.000	1.067
WASTE PROCESSING						
MAINTENANCE PERSONNEL	9	0	2	2.595	0.000	0.416
OPERATING PERSONNEL	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	1	0.000	0.000	0.192
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	1	0	0	0.132	0.000	0.000
REFUELING						
MAINTENANCE PERSONNEL	4	0	35	1.498	0.000	10.704
OPERATING PERSONNEL	3	0	1	0.441	0.000	0.119
HEALTH PHYSICS PERSONNEL	1	0	0	0.348	0.000	0.000
SUPERVISORY PERSONNEL	4	0	0	1.040	0.000	0.000
ENGINEERING PERSONNEL	5	0	10	1.029	0.000	2.982
TOTAL						
MAINTENANCE PERSONNEL	173	3	290	80.602	1.715	124.037
OPERATING PERSONNEL	68	0	47	23.665	0.000	9.014
HEALTH PHYSICS PERSONNEL	76	0	44	28.001	0.000	15.916
SUPERVISORY PERSONNEL	14	0	1	4.866	0.000	1.739
ENGINEERING PERSONNEL	43	2	89	13.026	0.418	37.934
GRAND TOTAL	374	5	471	150.160	2.133	188.641

* Corrected for TLD results

** Special Maintenance Activities:

Emergency Core Cooling System Strainers
Control Building Heating Ventilation Air Conditioning
Condensate Filter Demineralizer Filters
Reactor Water Cleanup Pump
Forced Outage
Hotside Activities

Person-Rem

11.4
3.2
4.97
2.2
8.7
8.2
38.67 Total