

Exelon Generation Company, LLC      www.exeloncorp.com  
Byron Station  
4450 North German Church Road  
Byron, IL 61010-9794

## Regulatory Guide 1.16

April 18, 2001

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United States Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

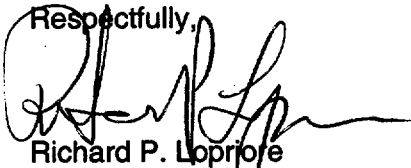
Byron Station, Units 1 and 2  
Facility Operating License Nos. NPF-37 and NPF-66  
NRC Docket Nos. STN 50-454 and STN 50-455

Subject: 2000 Occupational Radiation Exposure Report

In accordance with Technical Specification 5.6.1, "Occupational Radiation Exposure Report," Byron Station is submitting the facility 2000 Occupational Radiation Exposure Report. This report is a tabulation of station, utility, and other personnel (including contractors) receiving an annual deep dose equivalent of greater than 100 mrem. The associated collective deep dose equivalent is reported according to work and job functions.

If you have any questions regarding this information, please contact P. Reister, Regulatory Assurance Manager, at (815) 234-5441, extension 2280.

Respectfully,



Richard P. Lopriore  
Site Vice President  
Byron Nuclear Generating Station

RPL/DT/bka/dpk

Attachment

cc: NRC Regional Administrator – Region III  
Senior Resident Inspector – Byron Station

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REGULATORY GUIDE 1.16 REPORT

NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 2000

-- NUMBER OF PERSONNEL (> 100 MREM) --

----- QUANTITY OF PERSON-REM -----

WORK AND JOB FUNCTION	NUMBER OF PERSONNEL (> 100 MREM)			TOTAL PERSONS	QUANTITY OF PERSON-REM			TOTAL PERSON-REM
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS/ OTHERS		STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS/ OTHERS	
<b>REACTOR OPERATIONS AND SURVEILLANCE</b>								
MAINTENANCE	7	0	0		0.079	0.000	0.000	
OPERATIONS	16	0	0		0.923	0.000	0.000	
HEALTH PHYSICS	6	0	0		0.057	0.000	0.000	
SUPERVISORY	0	0	0		0.000	0.000	0.000	
ENGINEERING	5	0	0		0.077	0.000	0.000	
	34	0	0	34	1.136	0.000	0.000	1.136
<b>ROUTINE MAINTENANCE</b>								
MAINTENANCE	97	0	182		21.298	0.000	30.098	
OPERATIONS	37	4	1		5.325	0.890	0.010	
HEALTH PHYSICS	24	1	27		7.060	0.091	6.272	
SUPERVISORY	20	0	28		3.046	0.000	8.340	
ENGINEERING	10	0	0		2.266	0.000	0.000	
	188	5	238	431	38.995	0.981	44.720	84.696
<b>INSERVICE INSPECTION</b>								
MAINTENANCE	2	0	54		0.022	0.000	4.513	
OPERATIONS	4	0	0		0.023	0.000	0.000	
HEALTH PHYSICS	0	0	7		0.000	0.000	0.127	
SUPERVISORY	1	0	4		0.000	0.000	0.077	
ENGINEERING	6	0	0		0.221	0.000	0.000	
	13	0	65	78	0.266	0.000	4.717	4.983
<b>SPECIAL MAINTENANCE</b>								
MAINTENANCE	47	0	164		3.231	0.000	72.489	
OPERATIONS	11	1	0		0.050	0.200	0.000	
HEALTH PHYSICS	8	0	18		0.000	0.000	5.551	
SUPERVISORY	9	0	8		1.142	0.000	5.279	
ENGINEERING	1	0	0		0.299	0.000	0.000	
	76	1	190	267	4.722	0.200	83.319	88.241
<b>WASTE PROCESSING</b>								
MAINTENANCE	4	0	9		0.000	0.000	0.341	
OPERATIONS	7	0	1		0.006	0.000	0.537	
HEALTH PHYSICS	6	0	0		0.034	0.000	0.000	
SUPERVISORY	2	0	0		0.001	0.000	0.000	
ENGINEERING	0	0	0		0.000	0.000	0.000	
	19	0	10	29	0.041	0.000	0.878	0.919
<b>REFUELING</b>								
MAINTENANCE	14	0	8		0.169	0.000	0.112	
OPERATIONS	11	1	0		1.266	0.044	0.000	
HEALTH PHYSICS	4	1	0		0.079	0.055	0.000	
SUPERVISORY	4	0	0		0.355	0.000	0.000	
ENGINEERING	1	0	0		0.023	0.000	0.000	
	34	2	8	44	1.892	0.099	0.112	2.103

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WORK AND JOB FUNCTION	-- NUMBER OF PERSONNEL (> 100 MREM) --				----- QUANTITY OF PERSON-REM -----			
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS/ OTHERS	TOTAL PERSONS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS/ OTHERS	TOTAL PERSON-REM
TOTAL BY JOB FUNCTION								
MAINTENANCE	97	0	231	328	24.799	0.000	107.553	132.352
OPERATING	37	4	1	42	7.593	1.134	0.547	9.274
HEALTH PHYSICS	24	1	34	59	7.230	0.146	11.950	19.326
SUPERVISORY	20	0	35	55	4.544	0.000	13.696	18.240
ENGINEERING	10	0	1	11	2.886	0.000	0.000	2.886
*** GRAND TOTAL ***	188	5	302	495	47.052	1.280	133.746	182.078