Commonwealth Edison
Byron Nuclear Station
4450 North German Church Road
Byron, Illinois 61010

DATE: February 11, 1991

FILE: 2.12.1216

Mr. A. Bert Davis
Regional Administrator
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

SUBJECT: Byron Nuclear Power Station Operating Report, NRC Dockets 50-454 and 50-455.

Dear Mr. Davis:

Enclosed is the occupational Radiation Exposures (NRC Reg. Guide 1.16) for 1990 for Byron Nuclear Power Station.

Sincerely yours,

R. Pleniewicz
Station Manager
Byron Nuclear Power Station

RP/JW/dd

Enclosure

cc: NRC Document Control Desk
NRC Resident Inspector
NRC Office of Research

9103080409 910228
PDR ADOCK 05000237
R PDR

ATTACHMENT D

REGULATORY GUIDE 1.16

NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION
YEAR 1990

PLANT: BYRON PLANT 1 and 2

WORK & JOB FUNCTION	NUMBER OF PERSONNEL: STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT & OTHERS	*TOTAL PERSONS	TOTAL PERSON-REMS: STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT & OTHERS	TOTAL PERSON-REM
REACTOR OPERATIONS & SURV								
MAINTENANCE PERSONNEL	2	1	2		0.051	0.009	0.302	
OPERATING PERSONNEL	90	0	221		14.345	0.000	0.346	
HEALTH PHYSICS PERSONNEL	27	0	34		12.102	0.000	6.486	
SUPERVISORY PERSONNEL	44	12	0		2.282	0.013	0.000	
ENGINEERING PERSONNEL	26	12	5		1.910	0.073	0.248	
TOTAL	189	25	262	476	30.690	0.095	7.382	38.167
ROUTINE MAINTENANCE								
MAINTENANCE PERSONNEL	136	19	659		66.557	0.266	130.420	
OPERATING PERSONNEL	62	0	1		9.671	0.000	0.002	
HEALTH PHYSICS PERSONNEL	20	0	97		8.926	0.000	18.576	
SUPERVISORY PERSONNEL	250	72	66		12.983	0.075	1.712	
ENGINEERING PERSONNEL	18	97	49		1.319	0.583	2.316	
TOTAL	486	188	872	1546	99.456	0.924	153.026	253.406
IN-SERVICE INSPECTION								
MAINTENANCE PERSONNEL	1	0	188		0.203	0.000	24.284	
OPERATING PERSONNEL	1	0	0		0.113	0.000	0.000	
HEALTH PHYSICS PERSONNEL	1	0	1		0.465	0.000	0.018	
SUPERVISORY PERSONNEL	33	10	1		1.747	0.010	0.082	
ENGINEERING PERSONNEL	21	8	16		1.528	0.052	0.767	
TOTAL	57	18	206	281	4.056	0.062	25.151	29.269
SPECIAL MAINTENANCE								
MAINTENANCE PERSONNEL	19	2	276		9.351	0.026	54.068	
OPERATING PERSONNEL	12	0	0		1.929	0.000	0.000	
HEALTH PHYSICS PERSONNEL	6	0	1		2.435	0.000	0.037	
SUPERVISORY PERSONNEL	65	0	54		3.392	0.000	1.072	
ENGINEERING PERSONNEL	10	20	15		0.708	0.120	0.771	
TOTAL	112	22	346	480	17.815	0.146	55.948	73.909
WASTE PROCESSING								
MAINTENANCE PERSONNEL	3	0	176		0.231	0.000	22.604	
OPERATING PERSONNEL	4	0	82		1.243	0.000	0.131	
HEALTH PHYSICS PERSONNEL	2	0	0		0.191	0.000	0.000	
SUPERVISORY PERSONNEL	3	0	2		0.149	0.000	0.010	
ENGINEERING PERSONNEL	2	48	2		0.166	0.290	0.098	
TOTAL	14	48	262	324	1.980	0.290	22.843	25.113
REFUELING								
MAINTENANCE PERSONNEL	13	0	5		6.508	0.000	0.929	
OPERATING PERSONNEL	12	0	0		1.934	0.000	0.000	
HEALTH PHYSICS PERSONNEL	1	0	2		0.298	0.000	0.010	
SUPERVISORY PERSONNEL	41	0	2		2.106	0.000	0.098	
ENGINEERING PERSONNEL	9	41	1		0.671	0.248	0.067	
TOTAL	76	41	10	127	11.517	0.248	1.104	12.869
TOTAL BY JOB FUNCTION								
MAINTENANCE PERSONNEL	174	22	1306	1502	82.901	0.301	232.607	315.809
OPERATING PERSONNEL	181	0	304	485	29.235	0.000	0.479	29.714
HEALTH PHYSICS PERSONNEL	57	0	135	192	24.417	0.000	25.127	49.544
SUPERVISORY PERSONNEL	436	94	125	655	22.659	0.098	2.974	25.731
ENGINEERING PERSONNEL	86	226	88	400	6.302	1.366	4.267	11.935
GRAND TOTAL	934	342	1958	3234	165.514	1.765	265.454	432.733

3533/49/mv