



**Commonwealth Edison**  
Quad Cities Nuclear Power Station  
22710 206 Avenue North  
Cordova, Illinois 61242  
Telephone 309/654-2241

February 16, 1991

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

SUBJECT: Quad Cities Station Operation Report, NRC Dockets  
50-254 and 50-265

Dear Mr. Davis:

Enclosed are the 1990 Occupational Radiation Exposures (NRC  
Reg. Guide 1.16.) for Quad Cities Nuclear Power Station.

Sincerely,

R.L. Bax  
Station Manager  
Quad Cities Station

GJD/DWH/JGL/dls

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

ATTACHMENT D  
REGULATORY GUIDE 1.16

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

PLANT: QUAD CITIES WORK & JOB FUNCTION	NUMBER OF PERSONNEL				*TOTAL PERSONS	TOTAL PERSON-REMS			
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT & OTHERS			STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT & OTHERS	TOTAL PERSON-REM
<b>REACTOR OPERATIONS &amp; SURV</b>									
MAINTENANCE PERSONNEL	16	10	110		16.255	0.128	46.123		
OPERATING PERSONNEL	145	0	223		42.178	0.000	17.427		
HEALTH PHYSICS PERSONNEL	24	0	15		20.830	0.000	6.072		
SUPERVISORY PERSONNEL	96	28	5		16.574	0.395	0.957		
ENGINEERING PERSONNEL	43	61	83		5.306	2.075	8.003		
<b>TOTAL</b>	<b>324</b>	<b>99</b>	<b>436</b>	<b>859</b>	<b>101.143</b>	<b>2.598</b>	<b>78.582</b>	<b>182.323</b>	
<b>ROUTINE MAINTENANCE</b>									
MAINTENANCE PERSONNEL	99	132	563		99.104	1.700	237.176		
OPERATING PERSONNEL	32	0	2		9.177	0.000	0.127		
HEALTH PHYSICS PERSONNEL	18	0	36		15.069	0.000	13.933		
SUPERVISORY PERSONNEL	96	51	17		16.692	0.727	3.394		
ENGINEERING PERSONNEL	32	74	45		3.956	2.539	4.268		
<b>TOTAL</b>	<b>277</b>	<b>257</b>	<b>663</b>	<b>1197</b>	<b>143.998</b>	<b>4.966</b>	<b>258.898</b>	<b>407.862</b>	
<b>IN-SERVICE INSPECTION</b>									
MAINTENANCE PERSONNEL	2	0	227		1.517	0.000	95.563		
OPERATING PERSONNEL	0	0	1		0.088	0.000	0.034		
HEALTH PHYSICS PERSONNEL	0	0	1		0.405	0.000	0.574		
SUPERVISORY PERSONNEL	1	1	7		0.220	0.011	1.404		
ENGINEERING PERSONNEL	25	52	11		3.067	1.765	1.022		
<b>TOTAL</b>	<b>28</b>	<b>53</b>	<b>247</b>	<b>328</b>	<b>5.297</b>	<b>1.776</b>	<b>98.597</b>	<b>105.670</b>	
<b>SPECIAL MAINTENANCE</b>									
MAINTENANCE PERSONNEL	6	75	540		5.647	0.971	227.217		
OPERATING PERSONNEL	2	0	1		0.534	0.000	0.108		
HEALTH PHYSICS PERSONNEL	3	0	19		2.646	0.000	7.258		
SUPERVISORY PERSONNEL	18	3	116		3.129	0.040	23.500		
ENGINEERING PERSONNEL	11	55	158		1.350	1.866	15.195		
<b>TOTAL</b>	<b>40</b>	<b>133</b>	<b>834</b>	<b>1007</b>	<b>13.306</b>	<b>2.877</b>	<b>273.278</b>	<b>289.461</b>	
<b>WASTE PROCESSING</b>									
MAINTENANCE PERSONNEL	0	0	0		0.001	0.000	0.134		
OPERATING PERSONNEL	15	0	25		4.376	0.000	1.954		
HEALTH PHYSICS PERSONNEL	1	0	0		0.801	0.000	0.025		
SUPERVISORY PERSONNEL	19	0	0		3.315	0.000	0.000		
ENGINEERING PERSONNEL	0	0	0		0.002	0.011	0.000		
<b>TOTAL</b>	<b>35</b>	<b>0</b>	<b>25</b>	<b>60</b>	<b>8.495</b>	<b>0.011</b>	<b>2.113</b>	<b>10.619</b>	
<b>REFUELING</b>									
MAINTENANCE PERSONNEL	19	0	0		19.399	0.000	0.192		
OPERATING PERSONNEL	17	0	0		4.869	0.000	0.005		
HEALTH PHYSICS PERSONNEL	3	0	0		2.114	0.000	0.000		
SUPERVISORY PERSONNEL	20	0	0		3.492	0.003	0.000		
ENGINEERING PERSONNEL	3	3	3		0.455	0.115	0.314		
<b>TOTAL</b>	<b>62</b>	<b>3</b>	<b>3</b>	<b>68</b>	<b>30.329</b>	<b>0.118</b>	<b>0.511</b>	<b>30.958</b>	
<b>TOTAL BY JOB FUNCTION</b>									
MAINTENANCE PERSONNEL	142	217	1440	1799	141.923	2.799	606.405	751.127	
OPERATING PERSONNEL	211	0	252	463	61.222	0.000	19.655	80.877	
HEALTH PHYSICS PERSONNEL	49	0	71	120	41.865	0.000	27.862	69.727	
SUPERVISORY PERSONNEL	250	83	145	478	43.422	1.176	29.255	73.853	
ENGINEERING PERSONNEL	114	245	300	659	14.136	8.371	28.802	51.309	
<b>GRAND TOTAL</b>	<b>766</b>	<b>545</b>	<b>2208</b>	<b>3519</b>	<b>302.568</b>	<b>12.346</b>	<b>711.979</b>	<b>1026.893</b>	