



Commonwealth Edison

Zion Generating Station
Shiloh Blvd. & Lake Michigan
Zion, Illinois 60099
Telephone 708 / 746-2084

February 19, 1991
ZHPD-91-005

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

SUBJECT: Zion Station Operating Report
NRC Dockets 50-295 and 50-304

Dear Mr. Davis:

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

Sincerely yours,

for
T. Joyce
Station Manager

Enclosures

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: ZION

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
REACTOR OPERATIONS & SURV								
MAINTENANCE PERSONNEL	1	0	1		0.746	0.000	0.495	
OPERATING PERSONNEL	128	0	197		9.803	0.000	0.331	
HEALTH PHYSICS PERSONNEL	1	0	6		0.621	0.000	1.924	
SUPERVISORY PERSONNEL	41	17	1		5.677	0.019	0.053	
ENGINEERING PERSONNEL	13	1	1		0.809	0.023	0.001	
TOTAL	184	18	206	408	17.656	0.042	2.804	20.502
ROUTINE MAINTENANCE								
MAINTENANCE PERSONNEL	109	2	678		66.332	0.000	279.705	
OPERATING PERSONNEL	68	0	41		5.242	0.000	0.070	
HEALTH PHYSICS PERSONNEL	27	0	223		23.386	0.000	73.158	
SUPERVISORY PERSONNEL	170	88	416		23.633	0.099	28.827	
ENGINEERING PERSONNEL	87	247	46		5.489	8.605	0.043	
TOTAL	461	337	1404	2202	124.082	8.704	381.803	514.589
IN-SERVICE INSPECTION								
MAINTENANCE PERSONNEL	4	0	76		2.514	0.000	31.175	
OPERATING PERSONNEL	4	0	0		0.280	0.000	0.000	
HEALTH PHYSICS PERSONNEL	0	0	1		0.302	0.000	0.201	
SUPERVISORY PERSONNEL	5	7	71		0.652	0.008	4.910	
ENGINEERING PERSONNEL	14	9	1		0.896	0.318	0.001	
TOTAL	27	16	149	192	4.644	0.326	36.287	41.257
SPECIAL MAINTENANCE								
MAINTENANCE PERSONNEL	4	0	5		2.286	0.000	2.171	
OPERATING PERSONNEL	5	0	0		0.405	0.000	0.001	
HEALTH PHYSICS PERSONNEL	0	0	6		0.255	0.000	2.016	
SUPERVISORY PERSONNEL	7	0	8		0.975	0.000	0.556	
ENGINEERING PERSONNEL	2	7	0		0.109	0.229	0.000	
TOTAL	18	7	19	44	4.030	0.229	4.744	9.003
WASTE PROCESSING								
MAINTENANCE PERSONNEL	0	0	6		0.038	0.000	2.284	
OPERATING PERSONNEL	19	0	0		1.434	0.000	0.000	
HEALTH PHYSICS PERSONNEL	1	0	0		0.441	0.000	0.036	
SUPERVISORY PERSONNEL	2	0	25		0.345	0.000	1.734	
ENGINEERING PERSONNEL	0	0	0		0.000	0.004	0.000	
TOTAL	22	0	31	53	2.258	0.004	4.054	6.316
REFUELING								
MAINTENANCE PERSONNEL	34	2	155		20.737	0.000	63.806	
OPERATING PERSONNEL	71	0	0		5.396	0.000	0.000	
HEALTH PHYSICS PERSONNEL	3	0	1		2.230	0.000	0.441	
SUPERVISORY PERSONNEL	50	0	29		6.833	0.000	1.984	
ENGINEERING PERSONNEL	5	72	0		0.289	2.517	0.000	
TOTAL	163	74	185	422	35.485	2.517	66.231	104.233
TOTAL BY JOB FUNCTION								
MAINTENANCE PERSONNEL	152	4	921	1077	92.653	0.000	379.636	472.289
OPERATING PERSONNEL	295	0	238	533	22.560	0.000	0.402	22.962
HEALTH PHYSICS PERSONNEL	32	0	237	269	27.235	0.000	77.776	105.011
SUPERVISORY PERSONNEL	275	112	550	937	38.115	0.126	38.064	76.305
ENGINEERING PERSONNEL	121	336	48	505	7.592	11.696	0.045	19.333
GRAND TOTAL	875	452	1994	3321	188.155	11.822	495.923	695.900