

PERSONNEL OCCUPATIONAL EXPOSURES 1981

Report Period (a)	7-5-81	8-5-81	9-5-81	10-5-81	11-5-81	12-5-81	ANNUAL TOTAL
	8-4-81 JULY	9-4-81 AUGUST	10-4-81 SEPTEMBER	11-4-81 OCTOBER	12-4-81 NOVEMBER	1-4-82 DECEMBER	
Number of Individuals Provided with Film Badges *	523	567	582	632	724	675	1127
Number of Film Badges Issued to Tradesmen & Visitors *	341	390	400	395	528	471	887
Whole Body Exposures							
Number of Individuals Who Received No Measurable Exposure	519	565	574	631	723	675	1096
Number of Individuals Who Received Less Than 100 Millirem	4	2	8	1	1	0	31
Number of Individuals Who Received 100 to 250 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 250 to 500 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 500 to 750 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 750 to 1000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 1000 to 2000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 2000 to 3000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 3000 to 4000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 4000 to 5000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 5000 to 6000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received More Than 6000 Millirem	0	0	0	0	0	0	0
Whole Body Exposures Exceeding 500 m/rem By Job Function							
Routine Operations	0	0	0	0	0	0	0
Abnormal Operations	0	0	0	0	0	0	0
Routine Maintenance	0	0	0	0	0	0	0
Special Maintenance	0	0	0	0	0	0	0
Electricians	0	0	0	0	0	0	0
Results	0	0	0	0	0	0	0
Health Physics	0	0	0	0	0	0	0
Total Number of Finger Badges Issued	17	10	5	15	41	15	74
Number of Individuals Who Received No Measurable Exposure	17	6	3	13	41	15	65
Number of Individuals Who Received Less Than 100 Millirem	0	4	2	2	0	0	9
Number of Individuals Who Received 100 to 250 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 250 to 500 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 500 to 750 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 750 to 1000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 1000 to 2000 Millirem	0	0	0	0	0	0	0
Number of Individuals Who Received 2000 to 3000 Millirem	0	0	0	0	0	0	0

(a) Reporting period runs from the 5th of listed month through the 4th of the following month.

HTGR - Ft. St. Vrain

PERSONNEL OCCUPATIONAL EXPOSURES 1981

Report Period (a)	1-5-81	2-5-81	3-5-81	4-5-81	5-5-81	6-5-81
	2-4-81	3-4-81	4-4-81	5-4-81	6-4-81	7-4-81
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Number of Individuals Provided with Film Badges *	585	521	531	525	542	576
Number of Film Badges Issued to Tradesmen & Visitors*	397	334	345	348	361	397
Whole Body Exposures						
Number of Individuals Who Received No Measurable Exposure	584	513	531	524	538	573
Number of Individuals Who Received Less Than 100 Millirem	1	8	0	1	4	3
Number of Individuals Who Received 100 to 250 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 250 to 500 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 500 to 750 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 750 to 1000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 1000 to 2000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 2000 to 3000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 3000 to 4000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 4000 to 5000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 5000 to 6000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received More Than 6000 Millirem	0	0	0	0	0	0
Whole Body Exposures Exceeding 500 m/rem By Job Function						
Routine Operations	0	0	0	0	0	0
Abnormal Operations	0	0	0	0	0	0
Routine Maintenance	0	0	0	0	0	0
Special Maintenance	0	0	0	0	0	0
Routine Fueling	0	0	0	0	0	0
Special Fueling	0	0	0	0	0	0
Electricians	0	0	0	0	0	0
Results	0	0	0	0	0	0
Health Physics	0	0	0	0	0	0
Total Number of Finger Badges Issued *	9	19	14	3	39	42
Number of Individuals Who Received No Measurable Exposure	8	19	14	3	39	42
Number of Individuals Who Received Less Than 100 Millirem	1	0	0	0	0	0
Number of Individuals Who Received 100 to 250 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 250 to 500 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 500 to 750 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 750 to 1000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 1000 to 2000 Millirem	0	0	0	0	0	0
Number of Individuals Who Received 2000 to 3000 Millirem	0	0	0	0	0	0

(a) Reporting period runs from the 5th of listed month through the 4th of the following month.

Summary

During the year 1981, 31 individuals received measurable radiation exposures during the course of their work at Ft. St. Vrain Nuclear Generating Station. The maximum exposure to any one individual was 0.020 Rem and the minimum was 0.010 Rem. The total exposure received by all 31 individuals was 0.460 Rem.



Commonwealth Edison
 Zion Generating Station
 Shiloh Blvd. & Lake Michigan
 Zion, Illinois 60099
 Telephone 312/746-2084

23 February 1982

Mr. James G. Keppler
 Regional Director
 Office of Inspection and Enforcement
 Region III
 U. S. Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, Illinois 60137

PRINCIPAL STAFF	
DIR	E&IS
D/D	PAO
A/D	SLO
DR&PI	<i>Da</i>
DE&TI	<i>Da</i>
DEP&OS	File <i>Da</i>

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

Dear Mr. Keppler:

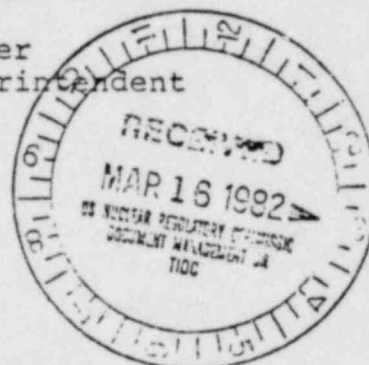
Attached is the occupational Radiation Exposures Report for Zion Units 1 and 2 for the year 1981, as required by Regulation Guide 1.16. This report is an accompaniment to the reports sent to you under the cover letter dated Feb. 25, 1982.

One copy of this report is provided for your use and 39 copies are being submitted directly to the Director of the Office of Nuclear Reactor Regulation.

Sincerely,

K. L. Graesser

K. L. Graesser
 Station Superintendent



ASS

DMB:
 IE 25-
 8/1982

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Zion Station

19 81 Report of Occupational Personnel Radiation Doses*
Commonwealth Edison Company

Station Employees

Job Function	Work Function Reactor Operations & Surveillance # of People/Man-Rem	Routine Maint. # of People/Man-Rem	Inservice Inspection # of People/Man-Rem	Waste Processing # of People/Man-Rem	Refueling # of People/Man-Rem	Total by Job Function # of People/Man-Rem
Maintenance	2/3.8	106/229.0			5/10.8	113/244.0
Operating	43/20.1	31/52.9		12/16.3	5/4.7	91/94.0
Health Physics	12/11.0	26/34.0	22/17.0	7/7.2	3/3.6	70/72.4
Supervision	3/1.0	44/30.9	11/4.8	5/2.2	3/4.3	66/43.4
Engineering	30/8.8	1/1.4		11/9.3		42/19.4
	44.7	248.2	21.8	35.0	23.4	473.1

INSTRUCTION: Using the personnel codes from the sample sheet along with any other personnel codes you may add in the above boxes, put the percentage of the personnel codes in them as shown on the sample sheet.

Zion Station

19 81 Report of Occupational Personnel Radiation Doses *
Commonwealth Edison Company

Company Employees other than Station Employees

Work Function

<u>Job Function</u>	Reactor Operations & Surveillance # of People/Man-Rem	Routine Maint. # of People/Man-Rem	Inservice Inspection # of People/Man-Rem	Waste Processing # of People/Man-Rem	Refueling # of People/Man-Rem	Total by Job Function # of People/Man-Rem
Maintenance		56/38.1				56/38.1
Operating						
Health Physics						
Supervision						
Engineering	4/1.3		26/7.2			30/8.4

46.5

INSTRUCTION: By using the following personnel codes, 3100, 3200, 3300, 2100, 2200, 2300, 4100, and any personnel code not listed on this sheet, place where appropriate along with percentages in the boxes.

Zion Station

1981 Report of Occupational Personnel Radiation Doses*
Commonwealth Edison Company

Contract Workers

Work Function	Reactor Operations & Surveillance # of People/Man-Rem	Routine Maint. # of People/Man-Rem	Inservice Inspection # of People/Man-Rem	Waste Processing # of People/Man-Rem	Refueling # of People/Man-Rem	Total by Job Function # of People/Man-Rem
Maintenance		435/711.8	89/203.0			524/914.8
Operating						
Health Physics		15/27.0	35/63.0			50/90.0
Supervision						
Engineering		7/4.0	51/54.8			58/58.7

173.5

INSTRUCTION: Place personnel codes and percentages in the boxes. (9000 series)

1493.2

(9000 series) 1493.2