

FORT ST. VRAIN (FSV) EMERGENCY RESPONSE PLAN (ERP) APPENDIX H HEALTH EFFECTS	Identifier: PLN-143 Revision: 6 Page: H-1 of H-1
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Fort St. Vrain	Plan	For Additional Info: http://EDMS	Effective Date: 03/23/07
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Manual: 16B – Emergency Management – Fort St. Vrain (FSV)

Change Number: 316940

Appendix H

Health Effects Associated with Acute Whole Body Absorbed Dose

Whole Body Absorbed Dose (rad)	Early Fatalities ^a (percent)	Whole Body Absorbed Dose (rad)	Prodromal Effects ^b (percent affected)
140	5	50	0
200	15	100	2
400	50	150	20
500	85	200	25
600	100	300	100

a. Supportive medical treatment may increase the dose at which these frequencies occur by approximately 50%.

b. Forewarning symptoms of more serious health effects associated with large doses of radiation.

Approximate Hypothetical Cancer Risk to Average Individuals from 25 rem (0.25 Sv) Acute Effective Dose Equivalent

Age at Exposure (years)	Approximate Risk of Premature Death (deaths per 1,000 persons exposed)	Average Years of Life Lost if Premature Death Occurs (years)
20 to 30	4.5	24
30 to 40	4.0	19
40 to 50	3.5	15
50 to 60	2	11