

Table 4.12-1 Radiation Dose Rates to Receptors From MEA Only and Cumulative Dose Rates

Receptor No.	Description	Distance from MEA Satellite Facility (km)	Radiation Dose Rates (mrem/yr) ^a		
			MEA Only	Nearby Existing and Proposed ISR Operations	MEA plus Nearby Existing and Proposed ISR operations
1	Alliance	54.4	0.3	0.7	1.0
2	Berea	39.1	0.5	0.9	1.4
3	Chadron	42.2	0.3	0.9	1.2
4	Clinton	79.9	0.1	0.3	0.4
5	Crawford	24.1	0.5	5.5	6.0
6	Harrison	55.4	0.2	0.7	0.9
7	Hay Springs	50.7	0.2	0.5	0.7
8	Hemingford	24.9	1.0	1.4	2.4
9	Marsland	7.2	1.0	2.2	3.2
10	Mitchell	77.2	0.1	0.3	0.4
11	Oelrichs	75.5	0.2	0.6	0.8
12	Rushville	69.6	0.2	0.4	0.6
13	Scottsbluff	77.9	0.1	0.5	0.6
14	Van Tassell	70.7	0.2	0.5	0.7
15	Whitney	31.4	0.4	1.8	2.2
16	Residence 1	1.0	17.3	3.4	20.7
17	Residence 2	1.0	22.3	3.1	25.4
18	Residence 3	2.2	5.1	3.0	8.1
19	Residence 4	3.5	3.6	2.6	6.2
20	Residence 5	4.8	4.1	2.3	6.4
21	Residence 6	5.0	3.6	4.2	7.8
22	Residence 7	4.2	5.5	3.1	8.6
23	Residence 8	6.5	1.9	1.9	3.8
24	Unoccupied 1	2.1	29.0	3.8	32.8
25	Unoccupied 2	3.3	7.5	3.2	10.7
26	East Boundary	1.4	13.5	3.1	16.6

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27	South Boundary	0.5	61.4	3.3	64.7
28	West Boundary	0.7	44.6	3.6	48.2
29	Miniature	79.1	0.1	0.5	0.6
30	North Boundary #1	5.2	5.0	4.5	9.5
31	North Boundary #2	3.4	11.4	3.9	15.3

^a Wastewater flow rate of 315 gallons per minute
 mrem/yr = millirems per year
 MU = Mine Unit
 km = kilometer

Table 4.12-2 Public and Occupational Doses for Marsland Expansion Area

Radon Sources Distribution	Public Dose/Deliveries	Occupational
Location of Dose	mRem/yr from 10 hrs/month Onsite	mRem/yr from 2,000 hrs/yr Onsite
North Boundary #1	0.03	2.2
North Boundary #2	0.05	3.5
East Boundary	0.05	3.8
South Boundary	0.21	14.8
West Boundary	0.15	11.0
MU-1	--	25.9
MU-2	--	42.6
MU-3	--	32.3
MU-4	--	36.8
MU-5	--	25.8
Satellite	0.43	31.3
Average		20.9

Notes:

mRem/yr = millirems per year