

Mean Consequences for Surry Population Density for 0 to 100 Miles (within 10 miles, 99.5% evacuation)										
Case No.	Release Fraction						Plume Energy (MW)	Early Fatalities	Societal Dose (person-rem)	Cancer Fatalities
	I,Cs	Ru	Te	Ba	Sr	Ce,La				
92 (NUREG-1150)	.69,.64	.003	.31	.06	.07	.007	3.7	12.6	4.36x10 ⁶	2,090
Base	1	2x10 ⁻⁵	.02	.002	.002	1x10 ⁻⁶	3.7	1.01	4.54x10 ⁶	2,320
11	1	1	.02	.002	.002	1x10 ⁻⁶	3.7	95.3	9.53x10 ⁶	9,150
93	.75	.75	.02	.002	.002	1x10 ⁻⁶	3.7	49.5	7.98x10 ⁶	7,580
94	.75	.75	.02	.002	.002	.001	3.7	50.2	8.35x10 ⁶	7,850
95	.75	.75	.02	.01	.01	.01	3.7	57.0	1.17x10 ⁷	10,400
96	1	1	.02	.01	.01	.01	3.7	106	1.33x10 ⁷	11,700
14 ¹	1	1	.02	.002	.002	1x10 ⁻⁶	3.7	.132	6.75x10 ⁶	6,300
97 ¹	1	1	.02	.01	.01	.01	3.7	.154	8.74x10 ⁶	7,990

¹Based on evacuation before release.

Mean Consequences for Surry Population Density for 0 to 100 Miles (within 10 miles, 95% evacuation)										
Case No.	Release Fraction						Plume Energy (MW)	Early Fatalities	Societal Dose (person-rem)	Cancer Fatalities
	I,Cs	Ru	Te	Ba	Sr	Ce,La				
91 (NUREG-1150)	.69,.64	3x10 ⁻³	.31	.06	.07	.007	3.7	13.4	4.37x10 ⁶	2,090
1	1	2x10 ⁻⁵	.02	.002	.002	1x10 ⁻⁶	3.7	1.01	4.54x10 ⁶	2,320
45	1	1	.02	.002	.002	1x10 ⁻⁶	3.7	92.2	9.50x10 ⁶	9,150
47	1	1	.02	.002	.002	1x10 ⁻⁶	83.0	57.3	9.24x10 ⁶	9,280
49	1	1	.02	.002	.002	1x10 ⁻⁶	256.0	18.3	8.24x10 ⁶	8,380
45a	1	1	.02	.01	.01	.01	3.7	103	1.33x10 ⁷	11,700
45b	.75	.75	.02	.01	.01	.01	3.7	54.9	1.17x10 ⁷	10,300
47b	.75	.75	.02	.01	.01	.01	83.0	32.0	1.13x10 ⁷	10,300
46 ¹	1	1	.02	.002	.002	1x10 ⁻⁶	3.7	1.32	6.84x10 ⁶	6,430
48 ¹	1	1	.02	.002	.002	1x10 ⁻⁶	83.0	.00509	7.28x10 ⁶	7,060
50 ¹	1	1	.02	.002	.002	1x10 ⁻⁶	256.0	.00357	6.96x10 ⁶	6,650
46a ¹	1	1	.02	.01	.01	.01	3.7	1.54	8.89x10 ⁶	8,160
46b ¹	.75	.75	.02	.01	.01	.01	3.7	.543	7.94x10 ⁶	6,880
46c ¹	.75	.75	.75	.01	.01	.01	3.7	.544	7.94x10 ⁶	6,880
46d ¹	.75	.75	.75	.75	.01	.01	3.7	.544	7.94x10 ⁶	6,880
46e ¹	.75	.75	.75	.75	.75	.01	3.7	.644	1.01x10 ⁷	8,350
46f ¹	.75	.01	.75	.75	.75	.01	3.7	.0831	8.25x10 ⁶	5,070
46g ¹	.75	.01	.75	.75	.75	1x10 ⁻⁶	3.7	.0807	6.24x10 ⁶	3,340
46h ¹	.75	.01	.75	.75	.01	1x10 ⁻⁶	3.7	.0239	4.02x10 ⁶	1,910

¹Based on evacuation before release.