

Table 4-72. Cumulative maximum Savannah River Site boundary line ground-level concentrations for PM₁₀ and air toxics (in micrograms per cubic meter of air).

Pollutant	Averaging time	Concentrations of existing sources ^a	Background concentrations ^b	Increase concentration					Regulatory standards ^c	Percent of standard (%)
				Shut Down and Deactivate ^c	Waste Management ^d	Plutonium Solutions ^d	Spent Nuclear Fuel ^d	Interim Management Nuclear Material ^d		
Particulate matter less than 10 microns in diameter	24 hours	51	62	16	5	0.2	0.4	(f)	150	90
	Annual	3	19	16	0.1	0.005	0.01	(f)	50	76
Antimony	24 hours	NA ^c	NA	8.6 × 10 ⁻⁶	NA	NA	NA	NA	2.5	<0.01
Arsenic	24 hours	NA ^f	NA	2.2 × 10 ⁻⁵	NA	NA	NA	NA	1.0	<0.01
Beryllium	24 hours	NA ^f	NA	2.9 × 10 ⁻⁶	NA	NA	NA	NA	0.01	0.03
Cadmium	24 hours	NA ^f	NA	1.3 × 10 ⁻⁶	NA	NA	NA	NA	0.25	<0.01
Lead	Quarterly	4.0 × 10 ⁻⁴	0.03	1.8 × 10 ⁻⁵	NA	NA	NA	NA	1.5	0.02
Mercury	24 hours	0.014	NA	1.2 × 10 ⁻⁶	NA	NA	NA	NA	0.25	5.6
Manganese	24 hours	0.821	NA	2.6 × 10 ⁻⁶	NA	NA	NA	NA	25	3.3

a. Modeled concentrations based on maximum potential emissions from metals and actual emissions for PM₁₀ from existing SRS sources (DOE 1995a).

b. Source: SCDHEC (1996b).

c. Calculated annual and 24-hour concentration from MEPAS modeling.

d. Source: DOE (1995c); DWPF emissions are included in waste management.

e. Source: SCDHEC (1976).

f. NA = Not available. No ambient air monitoring is performed for toxics. Concentrations assumed to be zero.

g. Source: Stewart (1996).

4-185

TC