

TABLE 4.7.1.3-3.—Estimated Pantex Plant Chemical Air Emissions Inventory-Continued

POLLUTANT	CHEMICAL ABSTRACT SERVICE NUMBER	KILOGRAMS (POUNDS) PER YEAR	METRIC TONS (TONS) PER YEAR
Non-F Listed Solvents	NA	0.021 (0.46)	0.00 (0.00)
Ortho-dichlorobenzene	95501	0.29 (0.64)	0.00 (0.00)
Propane	74986	103 (227)	0.10 (0.11)
Propene	115071	158.9 (350)	0.16 (0.18)
Pyrene	129000	0.00 (0.00)	0.00 (0.00)
Pyridine	110861	1.85 (4.08)	0.00 (0.00)
Silicon	7440213	46.31 (100)	0.05 (0.05)
Silver	7440224	1.05 (2.32)	0.00 (0.00)
Tetrahydrofuran	109999	776.34 (1710)	0.78 (0.85)
Trichlorofluoromethane	75694	157.99 (348)	0.16 (0.17)
Trichlorotrifluoroethane	76131	11.39 (25.1)	0.01 (0.01)
Zinc	7440666	0.031 (0.68)	0.00 (0.00)

^aProjected emissions that would result from future Burning Ground upgrade. Only included in modeling for 2,000, 1,000, and 500 projected activity levels.

^bThese chemicals are emitted but in amounts far below 0.01 kilograms or pounds per year.

NA - Not available.

Sources: CAA Nov 1990; Pantex 1996, 6.6; PC 1994; TNRCC 1996a

**TABLE 4.7.1.3-4.—Estimated Maximum Fence Line Concentration of
Criteria Pollutants at Pantex Plant Site**

POLLUTANT	AVERAGING TIME	NAAQS $\mu\text{g}/\text{m}^3$	MAXIMUM FENCE LINE CONCENTRATION $\mu\text{g}/\text{m}^3$
CO - 45.4 kg (100 lb) HE	1-hour	4.00×10^4	9.24×10^2
	8-hour	1.00×10^4	1.61×10^2
CO - 363 kg (800 lb) HE	1-hour	4.00×10^4	9.24×10^2
	8-hour	1.00×10^4	1.61×10^2
Lead	1st Qtr	1.50	1.02×10^{-3}
	2nd Qtr	1.50	9.60×10^{-4}
	3rd Qtr	1.50	1.58×10^{-3}
	4th Qtr	1.50	9.50×10^{-3}
NO ₂ - 45.4 kg (100 lb) HE	Annual	1.00×10^2	8.95×10^{-1}
NO ₂ - 363 kg (800 lb) HE	Annual	1.00×10^2	5.79×10^{-1}
PM ₁₀ - 45.4 kg (100 lb) HE	Annual	5.00×10^1	8.73
	24-hour	1.50×10^2	8.85×10^1
PM ₁₀ - 363 kg (800 lb) HE	Annual	5.00×10^1	1.51
	24-hour	1.50×10^2	2.24×10^1

Note: Table shows the ISCST2 and ISCLT2 modeling results (maximum fence line concentrations).

Source: TNRCC 1993a