

**TABLE B.4.2-1.—Percentage of the NAAQS Consumed by the Estimated Maximum Criteria Pollutant Concentration at Pantex Plant Boundary (2,000 Weapons)**

POLLUTANT	AVERAGING TIME	NAAQS $\mu\text{g}/\text{m}^3$	MAXIMUM CONCENTRATION AT BOUNDARY $\mu\text{g}/\text{m}^3$	PERCENT OF NAAQS
CO - 45.4 kg (100 lb) HE	1-hour	4.00E+04	9.24E+02	2.3
	8-hour	1.00E+04	1.61E+02	1.6
CO - 363 kg (800 lb) HE	1-hour	4.00E+04	9.24E+02	2.3
	8-hour	1.00E+04	1.61E+02	1.6
CO - BGU	1-hour	4.00E+04	2.90E+03	7.3
	8-hour	1.00E+04	6.02E+02	6.0
Lead	1st Qtr	1.50	1.02E-03	0.1
	2nd Qtr	1.50	9.64E-04	0.1
	3rd Qtr	1.50	1.58E-03	0.1
	4th Qtr	1.50	9.50E-03	0.6
Lead - BGU	1st Qtr	1.50	2.28E-02	1.5
	2nd Qtr	1.50	6.62E-02	4.4
	3rd Qtr	1.50	9.36E-02	6.2
	4th Qtr	1.50	4.14E-02	2.8
NO <sub>2</sub> - 45.4 kg (100 lb) HE	Annual	1.00E+02	2.15	2.1
NO <sub>2</sub> - 363 (800 lb) HE	Annual	1.00E+02	6.39E-01	0.6
NO <sub>2</sub> - BGU	Annual	1.00E+02	5.42E-01	0.5
PM <sub>10</sub> - 45.4 kg (100 lb) HE	Annual	5.00E+01	8.73	17.5
	24-hour	1.50E+02	8.85E+01	59.0
PM <sub>10</sub> - 363 kg (800 lb) HE	Annual	5.00E+01	1.51	3.0
	24-hour	1.50E+02	2.24E+01	14.9
SO <sub>2</sub> - BGU	Annual	8.00E+01	0.00 <sup>a</sup>	0.0 <sup>b</sup>
	24-hour	3.65E+02	2.00E-05	0.0 <sup>b</sup>
	3-hour	1.30E+03	8.00E-05	0.0 <sup>b</sup>
	30-min	1.02E+03	1.60E-04	0.0 <sup>b</sup>

<sup>a</sup>The ISCST2 air quality model returns a value of 0.00 for any concentration equal to or less than  $1.00 \times 10^{-5} \mu\text{g}/\text{m}^3$  (i.e. less than one ten millionth of a part per billion or less than the ten parts per quadrillion).

<sup>b</sup>Percent of NAAQS is shown as zero, as it is below 0.05.

Note: Table shows the results (maximum concentrations at boundary) from models ISCST2 and ISCLT2.

Source: TNRCC 1993a