

TABLE 1
Calculated Maximum Air Toxics Emissions
Open Flare

C.F. 5 - LFG inlet flow 60 scfm

LFG Compound	HAP	MW (lb/lb-mol)	Conc (ppmv) ^(a)	Control Eff (%) ^(c)	Flare Exhaust	
					lb/hr	ton/yr
1,1,1 - Trichloroethane (methyl chloroform)	<input checked="" type="checkbox"/>	133.42	0.48	0.98	1.2e-5	5.3e-5
1,1,2,2 - Tetrachloroethane	<input checked="" type="checkbox"/>	167.85	1.11	0.98	3.5e-5	1.5e-4
1,1 - Dichloroethane (ethylidene dichloride)	<input checked="" type="checkbox"/>	98.95	2.35	0.98	4.4e-5	1.9e-4
1,1 - Dichloroethane (vinylidene chloride)	<input checked="" type="checkbox"/>	96.94	0.20	0.98	3.7e-6	1.6e-5
1,2 - Dichloroethane (ethylene dichloride)	<input checked="" type="checkbox"/>	98.96	0.41	0.98	7.6e-6	3.3e-5
1,2 - Dichloropropane (propylene dichloride)	<input checked="" type="checkbox"/>	112.98	0.18	0.98	3.9e-6	1.7e-5
2-Propanol (isopropyl alcohol)		60.11	50.10	0.997	8.6e-5	3.8e-4
Acetone		58.08	7.01	0.997	1.2e-5	5.1e-5
Acrylonitrile	<input checked="" type="checkbox"/>	53.06	6.33	0.997	9.6e-6	4.2e-5
Benzene	<input checked="" type="checkbox"/>	78.11	1.91	0.997	4.2e-6	1.9e-5
Bromodichloromethane		163.83	3.13	0.98	9.7e-5	4.3e-4
Butane		58.12	5.03	0.997	8.3e-6	3.6e-5
Carbon Disulfide	<input checked="" type="checkbox"/>	76.13	0.58	0.997	1.3e-6	5.5e-6
Carbon Tetrachloride	<input checked="" type="checkbox"/>	153.84	0.004	0.98	1.2e-7	5.1e-7
Carbonyl Sulfide	<input checked="" type="checkbox"/>	60.07	0.49	0.997	8.4e-7	3.7e-6
Chlorobenzene	<input checked="" type="checkbox"/>	112.56	0.25	0.98	5.4e-6	2.4e-5
Chlorodifluoromethane		86.47	1.30	0.98	2.1e-5	9.3e-5
Chloroethane (ethyl chloride)	<input checked="" type="checkbox"/>	64.52	1.25	0.98	1.5e-5	6.7e-5
Chloroform	<input checked="" type="checkbox"/>	119.39	0.03	0.98	6.8e-7	3.0e-6
Chloromethane		50.49	1.21	0.98	1.2e-5	5.1e-5
Dichlorobenzene	<input checked="" type="checkbox"/>	147.00	0.21	0.98	5.9e-6	2.6e-5
Dichlorodifluoromethane		120.91	15.70	0.98	3.6e-4	1.6e-3
Dichlorofluoromethane		102.92	2.62	0.98	5.1e-5	2.2e-4
Dichloromethane (methylene chloride)	<input checked="" type="checkbox"/>	84.94	14.30	0.98	2.3e-4	1.0e-3
Dimethyl Sulfide (methyl sulfide)		62.13	7.82	0.997	1.4e-5	6.1e-5
Ethane		30.07	889	0.997	7.6e-4	3.3e-3
Ethanol		46.08	27.20	0.997	3.6e-5	1.6e-4
Ethyl Mercaptan (ethanethiol)		62.13	2.28	0.997	4.0e-6	1.8e-5
Ethylbenzene	<input checked="" type="checkbox"/>	106.16	4.61	0.997	1.4e-5	6.1e-5
Ethylene dibromide		187.88	0.001	0.98	3.6e-8	1.6e-7
Fluorotrichloromethane		137.38	0.76	0.98	2.0e-5	8.7e-5
Hexane	<input checked="" type="checkbox"/>	86.18	6.57	0.997	1.6e-5	7.1e-5
Hydrogen Sulfide	<input checked="" type="checkbox"/>	34.08	35.50	0.997	3.4e-5	1.5e-4
Mercury (total)	<input checked="" type="checkbox"/>	200.61	2.9e-4	0	5.6e-7	2.4e-6
Methyl Ethyl Ketone	<input checked="" type="checkbox"/>	72.11	7.09	0.997	1.5e-5	6.4e-5
Methyl Isobutyl Ketone	<input checked="" type="checkbox"/>	100.16	1.87	0.997	5.3e-6	2.3e-5
Methyl Mercaptan		48.11	2.49	0.997	3.4e-6	1.5e-5
Pentane		72.15	3.29	0.997	6.8e-6	3.0e-5
Perchloroethylene (tetrachloroethylene)	<input checked="" type="checkbox"/>	165.83	3.73	0.98	1.2e-4	5.1e-4
Propane		44.09	11.10	0.997	1.4e-5	6.1e-5
1 - 1,2 - Dichloroethene (1,2 dichloroethylene)		96.94	2.84	0.98	5.2e-5	2.3e-4
Toluene	<input checked="" type="checkbox"/>	92.13	39.30	0.997	1.0e-4	4.5e-4
Trichloroethylene (trichloroethene)	<input checked="" type="checkbox"/>	131.38	2.82	0.98	7.0e-5	3.1e-4
Vinyl Chloride	<input checked="" type="checkbox"/>	62.50	7.34	0.98	8.7e-5	3.8e-4
Xylenes	<input checked="" type="checkbox"/>	106.16	12.10	0.997	3.7e-5	1.6e-4
Total HAPs ^(d) tons/yr.....				0.00		0.00
					lbs/yr =	7.70

Notes:

- (a) Source: AP-42 (9/97), tables 2.4-1 and 2.4-2
- (b) Source: AP-42 (9/97), table 2.4-3
- (c) AP-42 gives ranges for control efficiencies. Control efficiencies for halogenated species range from 91 to 99 percent. Control efficiencies for non-halogenated species range from 38 to 99 percent. Maximum emissions for individual compounds are calculated based on the lowest end of each range.
- (d) Does not include hydrogen chloride