

3.15 Emissions Summary

Table 3.15-1 presents annual emission estimates for each emission unit and source category described in Chapter 3. These emission estimates are provided to demonstrate that the facility-wide allowable emission limits are feasible. The proposed facility-wide allowable emission limits are described in Chapter 2. There are no regulatory requirements for annual emission limits for most of the individual sources or source categories. Therefore, LANL proposes only facility-wide annual emission limits, except for those sources that have allowable emission limits already established in construction permits.

Table 3.15-1. Chapter 3 Emissions Summary (ton/year)

Source Category	NO _x	SO _x	CO	VOC	PM	PM ₁₀	HAP
Air Curtain Destructors ^(a)	38.2	2.0	23.7	61.3	32.4	24.4	5.6
Asphalt Production ^(b)	0.2	0.0	2.6	0.1	0.5	0.5	0.1
Beryllium Machining ^(c)	—	—	—	—	1.09E-05	1.09E-05	7.60E-06
Small Boilers/Heaters	37.2	0.3	31.9	2.4	3.3	3.3	0.8
Carpenter Shops	—	—	—	—	5.9	5.9	—
Chemical Use ^(d)	—	—	—	30	—	—	13
Degreasers ^(d)	—	—	—	0.1	—	—	0.1
Internal Combustion	49.1	5.2	22.0	2.0	2.2	2.2	0.04
Paper Shredder	—	—	—	—	13.0	13.0	—
Power Plant (TA-3)	99.6	36.9	81.3	11.1	15.7	15.7	3.8
Remediation ^(e)	—	—	—	—	—	—	0.5
Rock Crusher	6.4	0.4	1.4	0.5	1.0	0.7	0.01
Steam Plant (TA-21)	3.1	0.3	2.5	0.2	0.2	0.2	0.1
Storage Tanks ^(f)	—	—	—	0.5	—	—	0.1
Total	234	45	165	108	74	66	24
Total (Without Air Curtain Destructors)	196	43	142	47	42	41	19

(a) The air curtain destructors began operating at LANL in September 2001 as part of fire recovery efforts. They are scheduled to be removed by October 2003 and will not be included in LANL's Title V permit.

(b) Controlled emissions from the Barber Greene Plant.

(c) Emissions from permitted activities. PM and PM₁₀ include aluminum.

(d) "Projected" emissions estimated to be approximately double the actual emissions from most recent years.

(e) Only HAP emissions have been projected for future projects.

Worst case emissions were calculated for one tank. The estimate was projected for all of the tanks listed in Table 3.14-2. All of the tanks contain and emit organics. Only the diesel tanks generate HAP emissions