

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20457

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
1VE-1	Ozonator Testing (Bldg. 30)	Ozone	0.90	<0.10
3SE-1	Scrubber (Bldg. 3)	Acids	0.54	0.21
		Halogenated HCs	0.10	0.04
		Hydrides	0.02	<0.01
		Inorganics	0.26	<0.10
		Organics	0.18	0.07
4SE-1	Scrubber (Bldg. 4)	Acids	0.54	0.21
		Halogenated HCs	0.10	0.04
		Hydrides	0.02	<0.01
		Inorganics	0.26	<0.10
		Organics	0.18	0.07
3VE-1	Lab Vent (Bldg. 3)	Acids	0.08	0.02
		Halogenated HCs	1.80	0.36
		Inorganics	0.04	<0.01
		Organics	0.20	0.04
		Alcohols	0.13	0.03
4VE-1	Lab Vent (Bldg. 4)	Acids	0.08	0.02
		Halogenated HCs	1.80	0.36
		Inorganics	0.04	<0.01
		Organics	0.20	0.04
		Alcohols	0.13	0.03
3SE-1, 4SE-1,	Scrubber and Lab	CHEM1	N/A	0.10

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
3VE-1, and 4VE-1	Vents (Bldgs. 3 and 4)	CHEM2	N/A	0.50
		CHEM3	N/A	1.00
ARGON-SITE	Fugitive Argon Emissions	Argon	76.8	33.6
HELIUM-SITE	Fugitive Helium Emissions	Helium	10.4	4.6
NGFUG-SITE	Fugitive Natural Gas Emissions	VOC	2.1	9.0

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) Specific chemicals included in the general contaminant categories listed in this table, except for categories designated as CHEM1, CHEM2, and CHEM3 are those represented in Table XI.C.1 (Summary of Usage, Emissions, and Impacts) of the Air Quality Impacts Analysis for Applied Materials, Inc.'s Austin, Texas plant dated October 1990.

CHEM 1 - Chemicals with an Effects Screening Level (ESL) of greater than or equal to 0.1 µg/m³ on a 30-minute basis and 0.01 µg/m³ on an annual basis as established in the Texas Natural Resource Conservation Commission (TNRCC) ESL List dated November 26, 1990 and chemicals listed under the category of having no ESL in Table XI.5 (Modeling Impact Summary) of the Air Quality Impacts Analysis for Applied Materials Inc.'s

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Austin, Texas plant dated October 1990.

CHEM 2 -

Chemicals with an ESL of greater than or equal to $0.5 \mu\text{g}/\text{m}^3$ on a 30-minute basis and $0.05 \mu\text{g}/\text{m}^3$ on an annual basis as established in the TNRCC ESL List dated November 26, 1990 and chemicals listed under the category of having no ESL in Table XI.5 (Modeling Impact Summary) of the Air Quality Impacts Analysis for Applied Materials Inc.'s Austin, Texas plant dated October 1990.

CHEM 3 -

Chemicals with an ESL of greater than or equal to $10.0 \mu\text{g}/\text{m}^3$ on a 30-minute basis and $1.0 \mu\text{g}/\text{m}^3$ on an annual basis as established in the TNRCC ESL List dated November 26, 1990 and chemicals listed under the category of having no ESL in Table XI.5 (Modeling Impact Summary) of the Air Quality Impacts Analysis for Applied Materials Inc.'s Austin, Texas plant dated October 1990.

The facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Dated _____