

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18734

This table lists the maximum allowable emission rates for all sources of air contaminants covered by this permit.

AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
GROUP1 (4)	21 Scrubbers	Acids (5),(6)	2.22	9.74
		Alkalis (7)	0.10	0.46
		Halocarbons	2.92	12.80
		Inorganics	0.10	0.43
		Specialty Gases	1.37	5.98
		VOC	0.02	0.07
		non-VOC	0.02	0.08
E1RASE1, E1RASE2, E2RASE, and E2eRASE	4 Scrubbers	HCl	0.34	1.50
E3RASE	Scrubber	Acids	0.07	0.31
E1REPIS1 through E1REPIS6	6 EPI Reactors Vented 0.01 Through 6 Scrubbers	HCl		<0.01
BCDRSE	Concentrator/Oxidizer 28.60	VOC		6.53
		non-VOC	1.20	5.25
		Alkalis	0.10	0.44
		NO _x	1.58	6.94
		SO ₂	<0.01	0.02
		CO	0.15	0.65
		PM	0.08	0.37
		VOC (8)	0.06	0.25
E1RSVE1-8, E2RSVE, and E2eRSVE	Silane Vents	Specialty Gas	<0.01	<0.001
		POC	<0.01	<0.001
BCDRASE	Bulk Chemical Building <0.001	Acids		<0.01
		Alkalis	<0.01	<0.001

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			lb/hr	TPY
		Inorganics	<0.01	<0.01
		VOC	<0.01	<0.001
SSTK1	Storage Tank	NaOH	<0.01	<0.001
SSTK2	Storage Tank	HCl	<0.01	<0.001
SSTK3	Storage Tank	HF	<0.01	<0.001
SSTK4	Storage Tank	NH ₄	<0.01	<0.001
SSTK5 and SSTK6	Waste Solvent Tanks	VOC	0.44	1.63
		non-VOC	0.31	0.76
SSTK7 and SSTK8	Waste HF Tanks	HF	<0.01	<0.01
HCl-FUG	2 Storage Tanks	HCl	<0.01	<0.01

(1) Emission point identification - emission point number from plot plan.

(2) Specific point source name

(3) VOC - volatile organic compounds as defined in General Rule 101.1

non-VOC - compounds excluded from the definition of VOC in General Rule 101.1

HCl - hydrogen chloride
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including

PM₁₀.
POC - products of combustion including NO_x, SO₂, PM, CO, and VOC
NaOH - sodium hydroxide
HF - hydrogen fluoride
NH₄ - ammonia

(4) Specific EPNs are listed in Attachment 1.

- (5) Does not include HCl
- (6) Sulfuric acid may be emitted from any of the EPNs belonging to GROUP1 except E2eRAMSE.
- (7) The alkalis group includes emissions from ammonium hydroxide.
- (8) VOC from combustion

* Emission rates are based on a continuous operating schedule of 8,760 hours per year.

Dated _____

ATTACHMENT 1

Permit No. 18734

E1RASE1
E1RASE2
E1RHWSE1
E1RHWSE2
E1RWJASE1
E1RWJASE2
E1RAMSE

E1REPIS1
E1REPIS2
E1REPIS3
E1REPIS4
E1REPIS5
E1REPIS6
E2RASE

E2RHWSE
E2RWJASE
E2RAMSE
E2eRASE
E2eRHWSE
E2eRWJASE
E2eRAMSE

Dated _____