

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20769

This table lists the maximum allowable emission rates from all sources of air contaminants covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit.

AIR CONTAMINANTS DATA

Emission * Point No. (1) TPY	Source Name	Air Contaminant Name (2)	<u>Emission Rates</u> lb/hr	
SCRUB1	Fab 10	Acid	0.39	0.83
		Alkali	0.04	0.08
		Non-VOC	<0.01	<0.01
		Specialty Gas	<0.01	<0.01
		VOC	0.07	0.14
SF-1	Fab 10	Non-VOC	19.03	39.97
		VOC	5.04	10.57
AF-2	Fab 10	Alkali	0.03	0.07
SCRUB3	Fab 11	Acid	0.16	0.33
		Alkali	0.02	0.03
		Non-VOC	<0.01	<0.01
		Specialty Gas	<0.01	<0.01
		VOC	0.03	0.06
SF-2	Fab 11	Non-VOC	7.62	15.99
		VOC	2.01	4.23
AF-4	Fab 11	Alkali	0.01	0.03
ST-1	Storage Tank	VOC	<0.01	<0.01
B-1	Boiler	PM	0.15	0.65
		SO ₂	<0.01	0.03
		NO _x	1.23	5.40
		CO	0.26	1.13
		VOC	0.01	0.43

(1) Emission point identification from site plan.

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- (2) VOC - volatile organic compounds as defined in General Rule 101.1 to specifically include:
- | | |
|----------------------------|----------------------------|
| acetic acid | ethylene glycol |
| n-amyl acetate | ethyl lactate |
| anisole | hexamethyl disilizane |
| n-butyl acetate | isoamyl acetate |
| 1-butyl alcohol | isopropyl alcohol |
| gamma-butyroactone | n-methyl-2-pyrrolidone |
| n-cyclohexyl-2-pyrrolidine | propylene |
| glycol | trans-1,2-dichloroethylene |
| ether acetate | monomethyl |
| | diglycol amine |
| | ethyl alcohol |
| | tetraethyl orthosilicate |
| | xylene |
- Non-VOC - compounds excluded from VOC definition in General Rule 101.1, to specifically include
- acetone, hexafluoroethane, and tetrafluoromethane
- Acid - hydrofluoric, hydrochloric, nitric, phosphoric and sulfuric acids and phosphorous oxychloride
- Alkali - ammonium hydroxide, ammonium fluoride, hydrogen peroxide, potassium hydroxide, and tetramethyl ammonium hydroxide
- Specialty Gas - ammonia, arsine, boron trichloride, chlorine, dichlorosilane, nitrous oxide, phosphine, silane and sulfur hexafluoride
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - particulate matter
- CO - carbon monoxide

* The facilities may operate:

Hours/day 24 Days/week 7 Weeks/year 52

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Dated_____