

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 37910

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
EPN-RE3	RE3 Pressure Relief/Rupture Disk emergency only		H ₂ S	
EPN-HSA	Adsorber Pressure Relief/Rupture Disk emergency only		H ₂ S	
EPN-ST01	Caustic Storage Conservation Vent 0.25	Caustic		0.06
EPN-ST03	DCDTPA Conservation Vent	DCDTPA	0.07	0.26
EPN-ST02	Cresol Storage Conservation Vent 0.25	Cresol		0.06
EPN-ST26	NaSH Storage Conservation Vent 0.25	NaSH		0.06
EPN-ST22	SDCDTP Storage Conservation Vent 0.25	SDCDTP		0.06
EPN-Fug 1	Sodium Dicresyl Dithiophosphate 0.20		H ₂ S	0.04
	Production Components (4)	Cresol	0.04	0.20
		DCDTPA	0.05	0.22
		SDCDTP	0.05	0.20
		NaOH	0.03	0.14
		NaSH	0.02	0.09
		DCDTPA/Na	0.01	0.06
		NaOH/NaSH	0.01	0.02
EPN-ST27	NaSH Storage Conservation Vent	NaSH		0.06

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			lb/hr	TPY
	0.25			
EPN-ST23	IPMTC Conservation Vent	IPMTC	0.06	0.25
EPN-Fug 2	IPMTC Production Components (4) 0.18	IPMTC		0.04
		NaSH	0.02	0.11
		IPMTC/NaSH	0.03	0.13
EPN-SC01 only	Water Scrubber Pressure Relief/Rupture Disk	MMA	emergency	
EPN-CC1	Carbon Adsorber	ECF	<0.01	<0.04
EPN-ST08 only	ECF Storage Pressure Relief/Rupture Disk	ECF	emergency	
EPN-ST04	SIPX Storage Conservation Vent 0.25		SIPX	0.06
EPN-ST05	PAX Storage Conservation Vent 0.25		PAX	0.06
EPN-ST28	K/NaCl Storage Conservation Vent 0.25		K/NaCl	0.06
EPN-ST20	AXEF Storage Conservation Vent 0.28		AXEF	0.07
EPN-ST21	IXEF Storage Conservation Vent 0.28		IXEF	0.07
EPN-Fug 3	Xanthogen Formate Production Components (4)	ECF	0.05	0.24
		ALXS	0.05	0.23
		ALXEF	0.04	0.22

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			lb/hr	TPY
		ECF/ALXS	<0.01	0.02
EPN-BT01 only	CS ₂ Storage Pressure Relief/Rupture Disk	CS ₂	emergency	
EPN-BT02 only	MMA Storage Pressure Relief/Rupture Disk	MMA	emergency	
EPN-BT03 only	DMA Storage Pressure Relief/Rupture Disk	DMA	emergency	
EPN-Fug 4	Dithiocarbamate Production Components (4)	CS ₂	0.03	0.12
		MMA	0.03	0.13
		DMA	0.03	0.11
		NaOH	0	0.01
		SMDTC	0.03	0.14
		SDMDTC	0.03	0.14
		MAMDTC	0.02	0.08
EPN-ST24	SMDTC Loading	SMDTC	<0.01	0.06
EPN-ST25	SDMDTC Loading	SDMDTC	<0.01	0.04
EPN-ST06	MIBC Storage Conservation Vent 0.25		MIBC	0.06
EPN-ST07	n-butanol Storage Conservation Vent 0.25		NBA	0.06
EPN-Fug 5	MIBC,NBA Components (4)	MIBC,NBA	0.05	0.17
EPN-Fug 6	Blend Tank Components (4)	TNCF	0.02	0.08

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

(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) Chemical abbreviations:

ALXEF	- alkyl xanthogen ethyl formate
ALXS	- alkyl xanthates
AXEF	- amyl xanthogen ethyl formate
CS ₂	- carbon disulfide
DCDTPA	- dicresyldithiophosphoric acid
DCDTPA/NA	- dicresyldithiophosphoric acid/Na dicresyl dithiophosphate
DMA	- dimethyl amine
ECF	- ethyl chloroformate
IPMTC	- isopropyl methyl thiono-carbamate
IXEF	- isopropyl xanthogen ethyl formate
K/NaCl	- potassium/sodium chloride
MAMDTC	- methyl amines, methyl dithiocarbamates
MIBC	- methyl isobutyl carbino1
MMA	- monomethyl amine
NaOH	- sodium hydroxide
NaSH	- sodium hydrosulfide
NBA	- n-butano1
PAX	- potassium amyl xanthate
SDCDTP	- sodium dicresyl dithiophosphate
SDMDTC	- sodium dimethyl dithiocarbamate
SIPX	- sodium isopropyl xanthate
SMDTC	- sodium methyl dithiocarbamate
TNCF	- thionocarbamates, formates, MIBC, NBA
H ₂ S	- hydrogen sulfide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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

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Dated _____