

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 105

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
103	Toluene Storage	Toluene	0.28	0.52
104	Toluene Fugitives (4)	Toluene	0.08	0.33
113	NO _x Reduction Unit	NO _x	6.00	13.00
		CO	4.00	8.70
		HCN	0.23	1.01
		DNT	0.11	0.50
		Toluene	0.24	1.06
115	DNT Vent Scrubber	DNT	0.07	0.30
124A	DNT Unit-1 Fugitives (4)	MNT	<0.01	0.02
		Toluene	<0.01	<0.01
124B	DNT Unit-2 Fugitives (4)	MNT	<0.01	0.02
		Toluene	<0.01	<0.01
152	DNT Feed Tank Vent	DNT	0.04	0.02
153	Nitric Acid Loading	NO _x (as NO ₂)	<0.01	0.02
		HNO ₃	0.03	0.14
		DNT	0.02	0.07
160	Acid Storage Tank Vent	H ₂ SO ₄	<0.01	<0.01
161	Acid Storage Tank Vent	H ₂ SO ₄	<0.01	(5)
162	Acid Storage Tank Vent	NO _x (as NO ₂)	0.11	0.40

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		CO	4.4	16.58
		VOC	<0.01	<0.01
163	Acid Storage Tank Vent	NO _x (as NO ₂)	0.11	(6)
		CO	4.4	(6)
		VOC	<0.01	(6)
164	Acid Storage Tank Vent	H ₂ SO ₄	<0.01	<0.01
165	Acid Storage Tank (7)	H ₂ SO ₄	<0.01	<0.01
		NO _x (as NO ₂)	0.11	0.02
		CO	4.4	0.64
		VOC	<0.01	<0.01
166	Acid Storage Tank (7)	H ₂ SO ₄	<0.01	(8)
		NO _x (as NO ₂)	0.11	(8)
		CO	4.4	(8)
		VOC	<0.01	(8)

- (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) H₂SO₄ - sulfuric acid
 NO_x - total oxides of nitrogen
 NO₂ - nitrogen dioxide
 CO - carbon monoxide
 HCN - hydrogen cyanide
 HNO₃ - nitric acid
 DNT - dinitrotoluene
 MNT - mononitrotoluene
 VOC - volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Annual emissions from Emission Point No. (EPN) 161 are included

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

in annual emission rate for EPN 160.

- (6) Annual emissions from EPN 163 are included in the annual emission rate for EPN 162.
- (7) Emissions from EPNs 165 and 166 will occur only when the tanks associated with EPNs 162 and 163 are out of service.

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(8) Annual emissions from EPN 166 are included in the annual emission rate for EPN 165. Annual emissions from these tanks are based on operation in this service for two weeks per year.

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

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760
Hrs/year