

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 809

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
14STK-001	Ammonia Oxidization Process (AOP) Main Stack	NH <sub>3</sub>	14.00	31.00
		NO <sub>x</sub>	42.00	105.40
		N <sub>2</sub> O	1660.00	2905.34
14STK1-MSS	AOP Main Stack (Maintenance, StartUp, and Shutdown [MSS] Operations)	NH <sub>3</sub>	10.00	0.30
		NO <sub>x</sub>	86.00	3.00
		N <sub>2</sub> O	1410.00	43.00
14FLR-001A	AOP Flare	CO	2.70	11.90
		NH <sub>3</sub>	0.08	0.12
		NO <sub>x</sub>	0.43	1.80
		SO <sub>2</sub>	0.35	0.13
		VOC	0.29	0.63
14FLR1-MSS	AOP Flare (MSS Operations)	CO	34.00	0.67
		NH <sub>3</sub>	226.38	5.00
		NO <sub>x</sub>	76.60	1.47
14FUG	Fugitives (5)	HNO <sub>3</sub>	0.08	0.38
		NH <sub>3</sub>	0.13	0.55
		NO <sub>x</sub>	0.60	2.55
		N <sub>2</sub> O	3.87	16.95
		VOC	0.25	1.09
14LTR-001	Nitric Acid Truck	HNO <sub>3</sub>	0.22	0.96

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		NO <sub>x</sub>	0.01	0.04
14FUGMSS	Miscellaneous MSS Fugitive Emissions (5)	HNO <sub>3</sub>	1.30	0.01
		NH <sub>3</sub>	0.64	0.01
		NO <sub>x</sub>	0.01	0.10
		VOC	0.74	<0.01
14STK-002	Sample Sink Vent Hood Stack	HNO <sub>3</sub>	0.40	0.50
		NO <sub>x</sub>	0.02	0.03
14ANALYZER	Analyzer Purge	NH <sub>3</sub>	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		N <sub>2</sub> O	<0.01	0.01

- (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) CO - carbon monoxide  
HNO<sub>3</sub> - nitric acid  
NH<sub>3</sub> - ammonia  
NO<sub>x</sub> - total oxides of nitrogen, limited in this permit to nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>) and excluding nitrous oxide (N<sub>2</sub>O)  
N<sub>2</sub>O - nitrous oxide  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: June 30, 2014