

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 302

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)
Case I - Firing Natural Gas				
HA-S4	Boiler No. 4 (7)	NO <sub>x</sub>	1,093	---
		NO <sub>x</sub> (5)	101	---
		CO	1,312	1,764
		SO <sub>2</sub>	81	109
		PM	109	146
		PM <sub>10</sub>	109	146
		PM <sub>2.5</sub>	109	146
		VOC	30.25	40.66
HA-S5	Boiler No. 5 (7)	NO <sub>x</sub>	1,093	---
		NO <sub>x</sub> (5)	101	---
		CO	1,312	1,764
		SO <sub>2</sub>	81	109
		PM	109	146
		PM <sub>10</sub>	109	146
		PM <sub>2.5</sub>	109	146
		VOC	30.25	40.66
Case II - Firing No. 2 Fuel Oil				
HA-S4	Boiler No. 4 (7)	NO <sub>x</sub>	1,679	---
		NO <sub>x</sub> (5)	380	---
		CO	1,399	504

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		SO <sub>2</sub>	2,780	1,001
		PM	560	---
		PM <sub>10</sub>	560	---
		PM <sub>2.5</sub>	560	---
		PM (5)	590	224
		PM <sub>10</sub> (5)	590	224
		PM <sub>2.5</sub> (5)	590	224
		VOC	8	3
HA-S5	Boiler No. 5 (7)	NO <sub>x</sub>	1,679	---
		NO <sub>x</sub> (5)	380	---
		CO	1,399	504
		SO <sub>2</sub>	2,780	1,001
		PM	560	---
		PM <sub>10</sub>	560	---
		PM <sub>2.5</sub>	560	---
		PM (5)	590	224
		PM <sub>10</sub> (5)	590	224
		PM <sub>2.5</sub> (5)	590	224
		VOC	8	3
Case I And Case II (6)				
HA-S4	Boiler No. 4 (7)	NO <sub>x</sub>	---	73
HA-S5	Boiler No. 5 (7)	NO <sub>x</sub>	---	73
MSSFUG-ILE	MSS Activities (Inherently Low-Emitting) (8)	NO <sub>x</sub>	< 0.01	< 0.01
		CO	0.02	< 0.01
		SO <sub>2</sub>	< 0.01	< 0.01
		PM	0.90	0.05

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		PM <sub>10</sub>	0.90	0.05
		PM <sub>2.5</sub>	0.90	0.05
		VOC	1.09	0.19
		H <sub>2</sub> S	< 0.01	< 0.01
		NH <sub>3</sub>	< 0.01	< 0.01
Standard Permit (SP) sources incorporated by reference. Sources remain authorized by the SP(s) as listed below:				
Standard Permit Number 53846				
HA-SA4		NH <sub>3</sub> (5)	26.55	42.77
HA-SA5		NH <sub>3</sub> (5)	26.55	42.77

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide  
 H<sub>2</sub>S - hydrogen sulfide  
 NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Emission rates for Emission Point Nos. HA-S4 and HA-S5 are based on 2,688 hours per year (hrs/yr) at full load for natural gas firing and 720 hrs/yr at full load for fuel oil firing. These hours are not a maximum operating schedule; continuous operation at reduced load is authorized provided the annual emission limits are not exceeded.
- (5) Emission limits during SCR operation. These emission rates are for representational purposes only. The emission rates of NO<sub>x</sub>, PM, and NH<sub>3</sub> reflect emission rates authorized under Standard Permit Number 53846. Hourly NH<sub>3</sub> emission limits are based on a 24-hour averaging period.
- (6) Total annual NO<sub>x</sub> emission limits regardless of fuel fired.
- (7) The lbs/hour and tpy emission limits specified in the table above for this facility includes emissions from the facility during both normal operation and MSS activities. The NO<sub>x</sub> lbs/hour emission limits without SCR operation apply to emissions generated during MSS activities. For each pollutant whose emissions during MSS activities are measured using a CEMS, during any clock hour that includes one or more minutes of MSS activities, the pollutant's hourly emission limits that apply during planned MSS activities shall apply during that clock hour.
- (8) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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Date: June 16, 2014