

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3908B

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
EF-206	Cooling Tower (5)	VOC	0.59	2.58
		Propylene	0.46	2.01
ES-201	Package Boiler (6)	VOC	0.31	1.38
		NO _x	1.38	6.04
		SO ₂	0.01	0.04
		PM ₁₀	0.43	1.90
		CO	4.72	20.68
ES-202	Standby Incinerator (6)	VOC	0.36	
		NO _x	7.25	
		SO ₂	0.01	
		PM ₁₀	5.21	
		CO	2.23	
		HCl	0.03	
ES-203	Waste Heat Boiler (6)	VOC	0.36	
		NO _x	7.25	
		SO ₂	0.01	
		PM ₁₀	5.21	
		CO	2.23	
		HCl	0.03	
ES-202 and ES-203	Standby Incinerator and Waste Heat Boiler (6)	VOC		1.80
		NO _x		34.90
		SO ₂		0.01
		PM ₁₀		25.24
		CO		10.73
		HCl		0.15

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ES-205	North Flare (5)	VOC	27.14	2.77
		NO _x	4.67	0.39
		SO ₂	0.01	0.01
		CO	23.82	1.97
		Propylene	24.50	2.07
		Ethylene	1.95	0.14
ES-215	North Thermal Oxidizer (5)	VOC	0.17	0.25
		NO _x	5.10	7.60
		SO ₂	0.01	0.01
		CO	2.84	4.23
		PM ₁₀	0.34	0.51
		Propylene	0.16	0.19
ES-206	Package Boiler BO-4 (60 MMBtu/hr Gas Fired Boiler) (6)	Ethylene	0.02	0.01
		VOC	0.35	1.38
		NO _x	1.20	4.73
		SO ₂	0.04	0.15
		PM ₁₀	0.48	1.90
		CO	4.72	18.61
EV-201A	Carlot Silo Blender Bag Filter (5)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM ₁₀	0.29	0.51
EV-201B	Carlot Silo Blender Bag Filter (5)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM ₁₀	0.29	0.51
EV-201C	Carlot Silo Blender Bag Filter (5)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM ₁₀	0.29	0.51
EV-201D	Carlot Silo Blender Bag Filter (5)	VOC	1.17	0.84
		Propylene	0.91	0.66
		PM ₁₀	0.29	0.51
EV-208	Additive Feed Hopper Vent Filter	PM ₁₀	0.01	0.01
EV-209A	Pellet Dryer Exhaust (5)	VOC	0.77	1.69
		Propylene	0.60	1.32

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EV-209B	Pellet Dryer Exhaust (5)	VOC	0.77	1.69
		Propylene	0.60	1.32
EV-211	Cooling Water Additive Tanks	VOC	2.34	0.01
EV-212	Boiler Water Additive Tanks	VOC	2.34	0.01
EV-251	Powder Masterbatch Weight Bin Vent Filter	PM	0.16	0.04
		PM ₁₀	0.03	0.01
EV-261	Powder Masterbatch Weight Bin Vent Filter	PM	0.16	0.04
		PM ₁₀	0.03	0.01
F2	Fugitives (4) (5)	VOC	2.69	11.78
		Propylene	2.10	9.18
EV-254	Vacuum Cleaning System	PM	0.16	0.07
		PM ₁₀	0.08	0.03

MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) EMISSIONS

ES-205MSS	North Flare (MSS Operations) (5)	VOC	78.58	5.57
		NO _x	9.42	0.79
		CO	60.79	4.43
		SO ₂	0.01	0.01
		Propylene	71.84	4.45
		Ethylene	2.84	0.09
ES-215MSS	North Thermal Oxidizer (MSS Operations) (5)	VOC	0.17	0.11
		NO _x	5.10	3.38
		CO	2.84	1.88
		PM ₁₀	0.34	0.23
		Propylene	0.17	0.09
		Ethylene	0.02	0.01
EV-276-BP5	Train 5 Fluff Handling Collection System Bypass (MSS Operations) (5)	VOC	1.13	0.25
		Propylene	0.88	0.19
		PM	0.02	0.09
		PM ₁₀	0.01	0.01
EV-276-BP6	Train 6 Fluff Handling Collection System	VOC	1.13	0.25
		Propylene	0.88	0.19

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MSS-TR5/6	Bypass	PM	0.02	0.09
	(MSS Operations) (5)	PM ₁₀	0.01	0.01
	Trains 5 and 6 MSS	VOC	24.93	0.08

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. 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_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns in emitted.
- CO - carbon monoxide
 HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Propylene and ethylene are included in VOC allowables.
- (6) Emission limits include normal, startup, and shutdown operations.

* 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

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 27, 2010