

Emission Sources - Maximum Allowable Emission Rates

Permit Number 18495

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(6)
Operating Scenario 1: Limitation that apply at all times. (5)				
1	SPL operations (Silvering Process)	NH ₃	1.05	1.82
		PM ₁₀	< 0.01	< 0.01
2	SPL operations (Surface Activation/Passivation Process)	HCl	0.38	0.75
RTO	RTO Combustion Emissions	PM/PM ₁₀ (4)	0.06	0.11
		NO _x (4)	0.62	1.08
		CO (4)	0.33	0.32
		SO ₂ (4)	0.01	0.01
		VOC (4)	0.03	0.04
Operating Scenario 2a: BCL operation emissions controlled by RTO. (5)				
RTO and FUG	BCL operations	VOC	--	67.19
RTO	BCL operations	VOC	5.91	--
FUG	BCL operations	VOC	6.60	--
Operating Scenario 2b: BCL operations not controlled by RTO, Authorized planned MSS related emissions. (5)				
BPS and FUG	BCL operations	VOC	--	5.42
BPS	BCL operations	VOC	102.60	--
FUG	BCL operations	VOC	5.70	--

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source names. SPL refers to the silvering process line operations as described in Special Condition No. 4, while BCL refers to the mirror back coating line related facilities and operations described in Special Condition No. 5 (non-maintenance, startup, and shutdown [MSS] authorized activities and emissions and No. 6 (authorized MSS activities and emissions).
- (3)
 - NH₃ - ammonia
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - HCl - hydrochloric acid
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds and exempt solvents as both terms are defined in Title 30 Texas Administrative Code § 101.1
- (4) Combustion emissions
- (5) Operating Scenario 1 operations are described in Special Condition Nos. 4 and 5 and apply at all times regardless of whether Scenario 2a or 2b is being operated. Operating Scenarios 2a and 2b are mutually exclusive operating scenarios, with Scenario 2a associated operations defined in Special Condition No. 5 (related to routine operations related emissions) and Scenario 2b associated operations defined in Special Condition No. 6. Special Condition No. 6 defines activities and associated emissions authorized by this permit during planned MSS activities when the BCL continues to operate without being controlled by the regenerative thermal oxidizer (RTO). The 12-month rolling total hours of operation of BCL without the emission controlled by the RTO is limited to 100 hours per year as limited and described in Special Condition No. 6A.
- (6) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Date: April 27, 2012