

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Flexible Permit Number 18495

This table lists the maximum allowable emission rates of all sources of air contaminants covered by this permit. The annual emission rates (in tons per year) are based on a rolling 12-month period.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
Operating Scenario 1: Limitations that apply at all times. (5)				
1	SPL operations (Silvering Process)	NH ₃ PM ₁₀	1.05 <0.01	1.82 <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, RTO, and FUG	BCL operations	VOC	--	5.42
BPS	BCL operations	VOC	102.60	--
FUG	BCL operations	VOC	5.70	--

(1) Emission point identification - either specific equipment designation or emission point number

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from a 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 - particulate matter, suspended in the atmosphere, including PM₁₀
 - PM₁₀ - particulate matter 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 is emitted.
 - HCl - hydrochloric acid
 - NO_x - nitrous oxide
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds and exempt solvents as both terms 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). Note that the 12-month rolling total hours of operation of the BCL without the emissions controlled by the RTO is limited to 100 hours per year as limited and described in Special Condition No. 6A.

Dated December 10, 2009