

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2487

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)	Emission Rates *	
			lb/hr	TPY
HPC-12	Spray Dryer	NO _x	2.30	9.68
		PM ₁₀	3.09	13.00
		CO	0.82	3.44
		VOC	0.14	0.57
		SO ₂	0.01	0.06
HPC-12	NO _x Scrubber	NO _x	10.00	42.00
		PM ₁₀	0.52	2.18
		NH ₃	0.74	3.11
HCK-8	HCK Stack	NO _x	0.35	1.42
		PM ₁₀	0.60	2.43
		CO	0.07	0.28
		VOC	0.02	0.07
		SO ₂	<0.01	<0.01
HPC-15	CO(NO ₃) ₂ Tank	HNO ₃	0.04	<0.01
HPC-16	HNO ₃ Tank	HNO ₃	0.09	0.03
HPC-17	Molox Bin	PM ₁₀	0.03	0.02
HPC-18	Dust Conveyor Bag Filter	PM ₁₀	0.25	1.04
HPC-23	Belt Dryer Stack**	NO _x	1.96	8.16
		PM ₁₀	0.10	0.42
		CO	0.70	2.94
		VOC	0.12	0.50
		SO ₂	0.01	0.05

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> *	
			lb/hr	TPY
HPC-24	Calciner 1A Bypass Stack ***	NO _x	0.97	4.08
		PM ₁₀	0.05	0.21
		CO	0.35	1.47
		VOC	0.06	0.25
		SO ₂	0.01	0.03
HPC-24A	Calciner 1B Bypass Stack ***	NO _x	0.97	4.08
		PM ₁₀	0.05	0.21
		CO	0.35	1.47
		VOC	0.06	0.25
		SO ₂	0.01	0.03
HPC-24B	Calciner 2	NO _x	0.97	4.08
		PM ₁₀	0.05	0.21
		CO	0.35	1.47
		VOC	0.06	0.25
		SO ₂	<0.01	0.03
HPC-26	Dryer Bypass**	NO _x	0.83	3.45
		PM ₁₀	0.04	0.18
		CO	0.30	1.24
		VOC	0.05	0.21
		SO ₂	<0.01	0.02
HPC-29	Boiler	NO _x	2.20	9.64
		PM ₁₀	0.10	0.43
		CO	0.68	2.99
		VOC	0.11	0.50
		SO ₂	0.01	0.05
HPC-30	Mix Dose Tank 2	HNO ₃	<0.01	<0.01
HPC-31	Base Storage Hopper Bagfilter	PM ₁₀	0.03	0.14

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
HPC-32	Base Sin A Bagfilter	PM ₁₀	<0.01	0.02
HPC-33	Base Bin B Bagfilter	PM ₁₀	<0.01	0.02
HPC-34	Base Bin C Bagfilter	PM ₁₀	<0.01	0.02
HPC-35	Dust Bin A Bagfilter	PM ₁₀	<0.01	0.02
HPC-36	Dust Bin B Bagfilter	PM ₁₀	<0.01	0.02
HPC-37	Scale Hopper Bagfilter	PM ₁₀	<0.01	0.02
HPC-38	Extruder I Bagfilter	PM ₁₀	<0.01	0.02
HPC-39	Extruder II Bagfilter	PM ₁₀	<0.01	0.02
HPC-40	Extruder III Bagfilter	PM ₁₀	<0.01	0.02
HPC-42	ADM Storage Tank	NH ₃	0.15	<0.01
HPC-43	Ribbon Mixer Bagfilter	PM ₁₀	<0.01	0.02
HPC-46	Ni(NO ₃) ₂ Tank	HNO ₃	0.04	<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) PM₁₀ - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
NH₃ - ammonia

HNO₃ - nitric acid

- * Emission rates are based on and the facilities are limited by the maximum operating schedules represented in the permit renewal application of December 1992.
- ** During normal operations, the emissions from Calciners 1A and 1B are vented through HPC-23 and/or HPC-26.
- *** During emergency, unfired operations and/or repairs the emissions from Calciners 1A and 1B are vented through HPC-24 and HPC-24A.

Dated_____