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 *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	
<u>TPY</u>				
HPC-2	HNO₃ Tank	HNO ₃	0.87	0.04
HPC-12A	Spray Dryer (E)	NO_x PM_{10} CO VOC SO_2	2.30 3.09 0.82 0.14 0.01	9.68 13.00 3.44 0.57 0.06
HPC-12B	NO _x Scrubber (E)	NO_{x} PM_{10} NH_{3}	15.20 0.52 0.74	44.60 2.18 3.11
HPC-12C	SCR Stack (E)	NO_x PM_{10} SO_2 NH_3	11.21 0.58 <0.01 0.95	47.08 2.43 0.01 4.00
HCK-8	HCK-8 Stack	NO_x PM_{10} CO VOC SO_2	0.35 0.60 0.07 0.02 <0.01	1.42 2.43 0.28 0.07 <0.01
HPC-14	Solution Tank	NH_3	0.02	<0.01
HPC-15	CO₂ (NO₃) Tank	HNO ₃	0.04	<0.01
HPC-16	NI (NO ₃) ₂ Tank	HNO ₃	0.04	<0.01
HPC-17	HEPA Filter for Molo	K PM ₁₀	<0.01	<0.01

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
	Bin (C)			
HPC-18	Dust Conveyor Bag Filt	ter PM ₁₀	0.25	1.04
HPC-23	Belt Dryer Stack (A)	NO_{x} PM_{10} CO VOC SO_{2}	1.96 0.10 0.70 0.12 0.01	8.16 0.42 2.94 0.50 0.05
HPC-24	Calciner 1A Bypass Sta 4.08	PM ₁₀ CO VOC SO ₂	NO _x 0.05 0.35 0.06 0.01	0.97 0.21 1.47 0.25 0.03
HPC-24A	Calciner 1B Bypass Sta 4.08		NO _x 0.05 0.35 0.06 0.01	0.97 0.21 1.47 0.25 0.03
HPC-24B	Calciner 2	NO_{x} PM_{10} CO VOC SO_{2}	0.97 0.05 0.35 0.06 <0.01	4.08 0.21 1.47 0.25 0.03
HPC-26	Dryer Bypass (A)	NO_{x} PM_{10} CO VOC SO_{2}	0.83 0.04 0.30 0.05 <0.01	3.45 0.18 1.24 0.21 0.02
HPC-29	Boiler	NO_x	2.20	9.64

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
<u>^</u> Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY
		PM ₁₀ CO VOC SO ₂	0.10 0.68 0.11 0.01	0.43 2.99 0.50 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
HPC-32	Base Bin 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 Bagfilte	er 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 Bagfilte	er PM ₁₀	<0.01	0.02
HPC-42	ADM Storage Tank	NH_3	0.15	<0.01
HPC-43	Ribbon Mixer Bagfilte	er PM ₁₀	<0.01	0.02
HPC-46	CO (NO ₃) ₂	HNO ₃	0.04	<0.01

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u>		_		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
UDC 47			0.01	0.01
HPC-47	HEPA Filter for Reactor (D)	Solution PM ₁₀	<0.01	<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) PM_{10} 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.
 - (A) During normal operations, the emissions from Calciners 1A and 1B are vented through HPC-23 and/or HPC-26.
 - (B) During emergency, low-fired or unfired operations and/or repairs the emissions from Calciners 1A and 1B are vented through HPC-24 and HPC-24A.
 - (C) The hourly and annual emission values for the molox bin assume to contain a maximum of 67 percent molybdenum.
 - (D) The hourly and annual emission values for the solution reactor assume to contain a maximum of 67 percent molybdenum, 50 percent nickel, and 50 percent cobalt.

(E) Emissions of the main stack HPC 12 are a combination of emissions from the NO $_{\rm x}$ Scrubber (HPC-12B) and the Spray Dryer (HPC-12A). HPC-12B will not contribute to HPC-12 vent when the SCR Stack (HPC-12C) is in use.

Dated