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-2	HNO_3 Tank	HNO_3	0.87	0.04
HPC-12A	Spray Dryer (d)	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-12B	NO_x Scrubber (d)	NO_x	15.20	44.60
		PM_{10}	0.52	2.18
		NH_3	0.74	3.11
HPC-12C	SCR Stack (d)	NO_x	11.21	47.08
		PM_{10}	0.58	2.43
		SO_2	<0.01	0.01
		NH_3	0.95	4.00
HCK-8	HCK-8 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-14	Solution Tank	NH_3	0.02	<0.01
HPC-15	CO_2 (NO_3) Tank	HNO_3	0.04	<0.01

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Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
HPC-16	NI $(NO_3)_2$ Tank	HNO_3	0.04	<0.01
HPC-17	HEPA Filter for Molox Bin (b)	PM_{10}	<0.01	<0.01
HPC-18	Dust Conveyor Bag Filter	PM_{10}	0.25	1.04
HPC-23	Belt Dryer Stack (a)	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
HPC-24	Calciner 1A Bypass Stack (a) 4.08	NO_x		0.97
		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 (a) 4.08	NO_x		0.97
		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

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Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
HPC-26	Dryer Bypass (a)	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
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 Bagfilter	PM_{10}	<0.01	0.02
HPC-38	Extruder I Bagfilter	PM_{10}	<0.01	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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	$CO(NO_3)_2$	HNO_3	0.04	<0.01
HPC-47	HEPA Filter for Solution Reactor (c)	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
SO_2 - sulfur dioxide
CO - carbon monoxide
NH_3 - ammonia
HNO_3 - 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) Emissions from Calciners 1A and 1B are vented through one or more of the following emission points depending upon manufacturing process requirements: HPC-24, HPC-24A, HPC-26, and HPC-23. The total emissions from these sources will not exceed the quantities

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY

shown for HPC-23.

(b) The hourly and annual emission values for the molox bin assume to contain a maximum of 67 percent molybdenum.

(c) 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.

(d) Emissions of the Main Stack (HPC 12) are a combination of emissions from the NO_x Scrubber (HPC-12B) and the Spray Dryer (HPC-12A). The combined total NO_x emissions from HPC-12B and HPC-12C shall not exceed 15.20 lbs/hr and 47.08 tpy.

Dated_____