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	Main Stack (E)	NO_x	12.30	51.68
		PM_{10}	3.61	15.18
		CO	0.82	3.44
		VOC	0.14	0.57
		SO_2	0.01	0.06
		NH_3	0.74	3.11
HACK-8	HACK 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	$CO_2(NO_3)$ Tank	HNO_3	0.04	<0.01
HPC-16	HNO_3 Tank	HNO_3	0.09	0.03
HPC-17	HEPA Filter for Molox Bin (C)	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 (B)	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 (B)	NO_x	0.97	4.08

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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	$Ni_2(NO_3)$ Tank	HNO_3	0.04	<0.01
HPC-47	HEPA Filter for Solution Reactor (D)	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) During normal operations, the emissions from Calciners 1A and 1B are vented through HPC-23 and/or HPC-26.

(B) During emergency, unfired operations and/or repairs the emissions from Calciners 1A and 1B are vented through HPC-24 and HPC-24A.

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

(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_x scrubber and spray dryer.

Dated_____