EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8647

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*
SPECIAL METALS PLANT				
29	Autoclave East (6) (7)	PM_{10}/H_2SO_4	<1.00	<1.00
	Combining Tank	SO_2	<1.00	<1.00
SMPFUG	Sulfuric Acid Transfers (4) (6) (7) (Indoors and Outdoors)	PM_{10}/H_2SO_4	<0.46	<2.00
ANODE CASTING				
7-1	West Anode Casting (5)	CO	69.40	120.20
	Baghouse	NO_x	3.80	6.60
		SO_2	15.70	16.72
		PM_{10}	3.81	9.91
		Pb	0.01	0.10
		Cu	0.01	0.10
		VOC	0.44	0.80
7-2	Middle Anode Casting (5)	CO	69.40	120.20
	Baghouse	NO_x	3.80	6.60
		SO_2	15.70	16.72
		PM_{10}	3.81	9.91
		Pb	0.01	0.10
		Cu	0.01	0.10
		VOC	0.44	0.80
7-3	East Anode Casting (5)	CO	69.40	120.20
	Baghouse	NO_x	3.80	6.60
		SO_2	15.70	16.72

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		PM_{10}	3.81	9.91
		Pb	0.01	0.10
		Cu	0.01	0.10
		VOC	0.44	0.80
CASTINGFUG	Anode Casting Building (6)	CO	1.28	3.36
		NO_x	1.52	3.99
		SO_2	0.22	0.58
		PM_{10}	1.12	2.92
		VOC	0.08	0.21
54	Anode Casting Wheel (6) Cooling Vent	PM_{10}	1.00	2.60
TANKHOUSE				
TKFUG	Tankhouse (4) (6) (7)	PM_{10}	1.59	6.93
		CO	0.08	0.36
		NO_x	0.10	0.43
		H_2SO_4	1.58	6.91
		SO_2	0.01	0.06
		VOC	0.01	0.02
NICKEL CARBONATE PLANT				
NSPFUG1	Outdoor Fugitives (4) (6) (7)	PM_{10}/H_2SO_4	0.69	3.00
		AsH_3	0.04	0.15
NSPFUG2	Building Fugitives (4) (6)	PM_{10}	<0.23	<1.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY*
49	Tankhouse Pumps (6)	CO	1.79	0.78
	Emergency Generator	NO_x	8.31	3.64
		PM_{10}	0.59	0.26
		SO_2	0.55	0.24
		VOC	0.67	0.30
50	Water Treating (6)	CO	1.12	0.49
	Emergency Generator	NO_x	5.18	2.27
		PM_{10}	0.37	0.16
		SO_2	0.34	0.15
		VOC	0.42	0.18
52	Firewater Pump (6)	CO	0.87	0.38
		NO_x	4.03	1.77
		PM_{10}	0.29	0.13
		SO_2	0.27	0.12
		VOC	0.33	0.14
MISCELLANEOUS FACILITIES/PROCESSES				
PAINTFUG	Outdoor Painting (4) (6)	VOC	6.00	10.00
		PM_{10}	0.77	1.29
REVERTSFUG	Reverts Storage (4) (6) Building	PM_{10}	0.02	0.09
DTKFUG	Diesel Storage Tanks (4) (6)	VOC	<1.20	<6.00
GT01FUG	Gasoline Tank (4) (6)	VOC	<0.10	<0.50
UOTKFUG	Used Oil Tanks (4) (6)	VOC	<0.04	<0.20
HOTKFUG	Hydraulic Oil Tanks (4) (6)	VOC	0.16	<0.80

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

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(3) H_2SO_4 - sulfuric acid
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM_{10} - 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.
Pb - lead
Cu - copper
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
AsH_3 - arsine

(4) Fugitive emissions are an estimate only.

(5) Anode casting furnaces cannot operate simultaneously and are limited to a total of 5,200 hours of operation.

(6) Emissions are from permitted sources that were previously exempted.

(7) H_2SO_4 emissions included in the PM_{10}.

* Compliance with annual emission limits is based on a rolling 12-month period.

Dated November 1, 2010