

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4151

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
SF-1	Silica Sand Bin (4)	PM	0.07	0.05
		PM <sub>10</sub>	0.07	0.05
SF-2	Crushed Converter Silica Receiving Pile (4)	PM	0.02	0.01
		PM <sub>10</sub>	0.02	0.01
SF-3	Copper Concentrate Pile (4) 0.19	PM		0.27
		PM <sub>10</sub>	0.27	0.19
SF-4	Lime Rock Pile (4)	PM	0.08	0.06
		PM <sub>10</sub>	0.08	0.06
SF-5	Uncrushed Brick Pile (4)	PM	0.04	0.03
		PM <sub>10</sub>	0.04	0.03
SF-6	Intermediate Crushed Converter <0.01 Silica/Brick Pile (4)	PM		<0.01
		PM <sub>10</sub>	<0.01	<0.01
SF-7	Crushed Converter Silica Staging Pile (4)	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
SF-8	Uncrushed Converter Silica 0.01 Receiving Bins (4)	PM		0.01
		PM <sub>10</sub>	0.01	0.01
HF-1A	Copper Concentrate Loading 0.04		PM	0.21

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			lb/hr	TPY
	to Pile (4)	PM <sub>10</sub>	0.10	0.02
HF-1B	Copper Concentrate Pile Maintenance (4)	PM	0.09	0.05
		PM <sub>10</sub>	0.04	0.02
HF-2	Silica Sand Deposit to Bin (4) 0.03	PM		0.12
		PM <sub>10</sub>	0.05	0.01
HF-3	Uncrushed Converter Silica 0.01 Deposit to Pile (4)	PM		0.14
		PM <sub>10</sub>	0.07	<0.01
HF-4	Lime Rock Deposit to Pile (4) <0.01	PM		0.77
		PM <sub>10</sub>	0.36	<0.01
HF-5	Uncrushed Brick Deposit to Pile (4)	PM	0.27	<0.01
		PM <sub>10</sub>	0.13	<0.01
HF-6	Copper Concentrate Loadout 0.08 from Pile (4)	PM		0.28
		PM <sub>10</sub>	0.13	0.04
HF-7	Silica Sand Loadout from Bin (4) 0.29	PM		0.71
		PM <sub>10</sub>	0.34	0.14
HF-8	Uncrushed Converter Silica 0.11 Loadout from Bin (4)	PM		0.89
		PM <sub>10</sub>	0.42	0.05
HF-9	Lime Rock Loadout from Pile (4) 0.04	PM		1.17
		PM <sub>10</sub>	0.56	0.02

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
HF-10	Uncrushed Brick Loadout from Pile (4)	PM	0.54	0.01
		PM <sub>10</sub>	0.25	<0.01
HF-11Si	Uncrushed Converter Silica <0.01 Transfer to Crusher Charge <0.01 Hopper (4)	PM		<0.01
		PM <sub>10</sub>		<0.01
HF-11BK	Uncrushed Brick Transfer to <0.01 Crusher Charge Hopper (4) <0.01	PM		0.02
		PM <sub>10</sub>		<0.01
HF-12Si	Silica Crushing (4)	PM	0.22	0.02
		PM <sub>10</sub>	0.09	0.01
HF-12BK	Brick Crushing (4)	PM	0.22	<0.01
		PM <sub>10</sub>	0.09	<0.01
HF-13Si	Loadout of Crushed Silica <0.01 from Crusher Storage Bin (4) <0.01	PM		0.03
		PM <sub>10</sub>		0.01
HF-13BK	Loadout of Crushed Brick from Crusher Storage Bin (4) <0.01	PM	0.03	<0.01
		PM <sub>10</sub>		0.01
HF-14	Crushed Converter Silica (4) 0.03 Transfer to Staging Pile 0.02	PM		0.17
		PM <sub>10</sub>		0.08

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
HF-38	Crushed Converter Silica PM	PM	0.17	0.03
	Transfer to Pile (4)	PM <sub>10</sub>	0.08	0.02
HF-39	Crushed Converter Silica PM	PM	0.89	0.18
	to Staging Pile (4)	PM <sub>10</sub>	0.42	0.09
HF-40	Crushed Converter Silica PM	PM	0.17	0.03
	Transfer to Staging Pile (4)	PM <sub>10</sub>	0.02	0.08
HF-41	Crushed Converter Silica PM	PM	0.45	0.09
	Transfer from Staging Pile (4)	PM <sub>10</sub>	0.04	0.21
HF-42	Crushed Converter Silica from	PM		0.17
	0.03			
	Railcar to Receiving Pile (4)	PM <sub>10</sub>		0.08
	0.02			
UNL/CUBH/S	Unloading Building Baghouse	PM		12.43
	27.14			
	East Side	PM <sub>10</sub>	12.43	27.14
		Pb	0.50	0.70
		As	0.04	0.08
UNL/PBBH/S	Unloading Building Baghouse	PM		9.47
	20.73			
	West Side	PM <sub>10</sub>	9.47	20.73
		Pb	0.50	1.09
		As	0.03	0.06

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
UNL/TBH/S	Transfer Area Baghouse	PM	3.01	6.58
		PM <sub>10</sub>	3.01	6.58
		Pb	0.20	0.42
		As	<0.01	0.02
UNL/BD/N/S	Bedding Building Baghouse 32.45 North Side	PM		7.41
		PM <sub>10</sub>	7.41	32.45
		Pb	0.50	2.19
		As	0.05	0.20
UNL/BD/S/S	Bedding Building Baghouse 28.67 South Side	PM		6.55
		PM <sub>10</sub>	6.55	28.67
		Pb	0.50	2.19
		As	0.04	0.17
PS-1	Portable Screen (4)	TSP	0.14	0.10
		PM <sub>10</sub>	0.14	0.10
HF-BDG	Bedding Building Fugitives (4) <0.01	TSP		<0.01
		PM <sub>10</sub>	<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 - particulate matter (including species)

PM<sub>10</sub> - particulate matter less than 10 microns (including species)

Pb - lead

As - arsenic

TSP - total suspended particulate (including species)

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

(4) Fugitive emissions are an estimate only.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day, 7 Days/week, 52 Weeks/year

Dated \_\_\_\_\_