

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
CRH22	Crusher Baghouse		PM		0.26	0.05
PST23	Storage Hopper Baghouse		PM		0.04	0.08
PST24	Blender Conveyor Baghouse		PM		0.04	0.05
PMTH60	PM Stack Conveyor		PM		0.17	0.69
PMST61	PM Stack Conveyor		PM		0.07	0.27
BBV26	Blender Fill Baghouse		PM		0.01	0.005
SFS38	FM Baghouse		PM		0.10	0.21
MS1TH28	PS1 Conveyor Baghouse		PM		0.14	0.21
MM1-29	PS1 Mix Baghouse		PM		0.01	0.03
PS1TH30	PS1 Conveyor Baghouse		PM		0.04	0.08
RM1-31	PS1 Sizer Baghouse		PM		0.01	0.03
PS2TH32	PS2 Conveyor Baghouse		PM		0.14	0.21
MM2BV33	PS2 Mixer Baghouse		PM		0.01	0.03
RM2-34	PS2 Sizer Baghouse		PM		0.01	0.03
JSTH37	PS3 Conveyor Baghouse		PM		0.14	0.06
PPAMFH42	PP Conveyor Baghouse		PM		0.03	0.01
SFH44	Sizer Baghouse		PM		0.06	0.25

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PPPP48	Bulk Fill Baghouse	PM	<0.01	0.02
MTS39	Conveyor Baghouse	PM	0.04	0.01
PPB2-41	PP Area Baghouse	PM	0.03	0.14

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Emission Point No. (1)	Source		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
PPB1-40	Storage Baghouse			PM	0.02	0.03
ACMD46	Sizer Baghouse			PM	0.12	0.24
TPU10	Oxidizer			VOC	0.06	0.12
				PM	<0.01	0.003
				NOx	0.02	0.07
				SO2	<0.01	0.0004
				CO	<0.01	0.014
S1DC36	S1 Baghouse			PM	1.57	6.07
S1MT51	Storage Hopper Baghouse			PM	0.13	0.54
BFK1-13	Bake Furnace K-1			NOx	1.0	1.8
				CO	1.4	6.1
				VOC	0.4	1.0
				H2S	<0.01	0.005
				SO2	0.7	0.66
				SO3	0.06	0.08
				COS	0.22	0.37
BFK2-14	Bake Furnace K-2			NOx	1.0	1.8
				CO	1.4	6.1
				VOC	0.4	1.0
				H2S	<0.01	0.005
				SO2	0.7	0.66
				SO3	0.06	0.08
				COS	0.22	0.37
BFK3-15	Bake Furnace K-3			NOx	1.0	1.8
				CO	1.4	6.1
				VOC	0.4	1.0
				H2S	<0.01	0.005
				SO2	0.7	0.66
				SO3	0.06	0.08
				COS	0.22	0.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
BFK4-16	Bake Furnace K-4	NOx	1.0	1.8
		CO	1.4	6.1
		VOC	0.4	1.0
		H2S	<0.01	0.005
		SO2	0.7	0.66
		SO3	0.06	0.08
		COS	0.22	0.37
BFM1-17	Bake Furnace M-1	NOx	1.0	1.8
		CO	1.4	6.1
		VOC	0.4	1.0
		H2S	<0.01	0.005
		SO2	0.7	0.66
		SO3	0.06	0.08
		COS	0.22	0.37
BFM2-18	Bake Furnace M-2	NOx	1.0	1.8
		CO	1.4	6.1
		VOC	0.4	1.0
		H2S	<0.01	0.005
		SO2	0.7	0.66
		SO3	0.06	0.08
		COS	0.22	0.37
BFM3-19	Bake Furnace M-3	NOx	1.0	1.8
		CO	1.4	6.1
		VOC	0.4	1.0
		H2S	<0.01	0.005
		SO2	0.7	0.66
		SO3	0.06	0.08
		COS	0.22	0.37
BFM4-20	Bake Furnace M-4	NOx	1.3	2.4
		CO	1.9	8.1
		VOC	0.5	1.4
		H2S	<0.01	0.007
		SO2	0.9	0.88
		SO3	0.08	0.10
		COS	0.29	0.49

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
BFS1-21	Bake Furnace S-1	NOx	2.8	4.5
		CO	3.8	15.6
		VOC	1.0	2.6
		H2S	0.01	0.013
		SO2	2.0	1.7
		SO3	0.2	0.19
		COS	0.6	0.94
BFS2-57	Bake Furnace S-2	NOx	7.0	12.6
		CO	9.8	42.7
		VOC	2.8	7.0
		H2S	0.035	0.035
		SO2	4.9	4.62
		SO3	0.42	0.56
		COS	1.54	2.59
BFS3-58	Bake Furnace S-3	NOx	7.0	12.6
		CO	9.8	42.7
		VOC	2.8	7.0
		H2S	0.035	0.035
		SO2	4.9	4.62
		SO3	0.42	0.56
		COS	1.54	2.59
BGDC4	A Graphitizer Baghouse	PM	0.51	0.19
BGTVS5	A Graphitizer Hopper Baghouse	PM	0.03	0.003
GSS3	A Graphitizer Scrubber	H2S	0.11	0.02
HGTDC2	B Graphitizer Baghouse	PM	0.51	0.26
HGIS6	B Graphitizer Oxidizer	PM	<0.01	0.003
		SO2	1.5	6.0
		NOx	0.02	0.07
		VOC	<0.01	0.004
		CO	<0.01	0.014
		FeSO4	1.3	5.2

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
CGRAPH59	C Graphitizer Oxidizer	PM	<0.01	0.008
		SO2	2.9	11.6
		NOx	0.04	0.17
		VOC	<0.01	0.009
		CO	<0.01	0.03
		FeSO4	2.5	10.0
SPC12	SIC & SP Processes Scrubber	Chlorine	0.14	0.14
		HCl	0.02	0.04
BGVH53	BG Hood	VOC	0.02	0.01
VPE54	E2, BG Vacuum Pump	VOC	2.7	0.62
BGDO56	BG Oven	VOC	0.5	1.0
E2VH55	E2 Hood	VOC	0.2	0.01
HBF8	Harper Furnace Oxidizer	P2O5	2.5	0.42
		HCl	5.1	0.87
		NOx	0.12	0.16
		SO2	<0.01	0.001
		CO	0.02	0.03
		VOC	0.01	0.01
		PM	0.01	0.01
SF9	Stewart Furnace	VOC	0.025	0.013
IF11	SPE Furnace	VOC (methane)	4.6	11.5
FL7	A Graphitizer Vent	VOC	0.64	0.46
		NOx	0.10	0.07
		SO2	<0.01	0.004
		PM	0.01	0.004
		CO	0.02	0.014
FECSDC27	West Baghouse	PM	0.64	2.6

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WDC2-49	West Baghouse 2	PM	0.69	2.7
FESDC35	South Baghouse	PM	0.64	2.6
PPNDC43	PP North Baghouse	PM	0.21	0.21

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
PPWDC47	PP West Baghouse	PM	0.29	0.29
PPSDC45	PP South Baghouse	PM	0.26	0.26

(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
 PM10 - particulate matter less than 10 microns
 VOC - volatile organic compounds as defined in General Rule 101.1
 NOx - total oxides of nitrogen
 SO2 - sulfur dioxide
 CO - carbon monoxide
 SO3 - sulfur trioxide
 H2S - hydrogen sulfide
 COS - carbonyl sulfide
 FeSO4 - ferrous sulfate
 P2O5 - phosphorus pentoxide
 HCl - hydrogen chloride

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Revised _____