EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 23499

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
AT-1	Furnace Crucible No. 1 1,000 lb. Tilt (4)	TSP	1.14	0.86
		PM_{10}	1.14	0.86
		NO_x	0.25	0.19
		CO	0.38	0.28
		SO_2	<0.01	<0.01
AT-2	Furnace Crucible No. 2 1,000 lb. Tilt (4)	TSP	1.14	0.86
		PM_{10}	1.14	0.86
		NO_x	0.25	0.19
		CO	0.38	0.28
		SO_2	<0.01	<0.01
AT-3	Furnace Crucible No. 3 1,000 lb. Tilt (4)	TSP	1.14	0.86
		PM_{10}	1.14	0.86
		NO_x	0.25	0.19
		CO	0.38	0.28
		SO_2	<0.01	<0.01
A-1	Automatic Molding System And Olivene Sand Handling (4) 0.25	TSP	0.50	0.50
		PM_{10}		0.25
A-2	Core Making ARCA (4)	TSP	1.03	1.55
		PM_{10}	1.03	1.55
		NO_x	0.017	0.017
		CO	0.26	0.26
		SO_2	<0.01	<0.01

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Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
A-3	Cutoff/Grinding (4)	TSP	1.00	1.00
		PM_{10}	0.50	0.50
S1	Shell Core Machine No. 1 (4)	TSP	1.03	1.55
		PM_{10}	1.03	1.55
		NO_x	0.01	0.01
		CO	0.015	0.015
		SO_2	<0.01	<0.01
S2	Shell Core Machine No. 2 (4)	TSP	1.03	1.55
		PM_{10}	1.03	1.55
		NO_x	0.017	0.017
		CO	0.26	0.26
		SO_2	<0.01	<0.01
S3	Shell Core Machine No. 3 (4)	TSP	1.03	1.55
		PM_{10}	1.03	1.55
		NO_x	0.033	0.033
		CO	0.05	0.05
		SO_2	<0.01	<0.01
S4	Shell Core Machine No. 4 (4)	TSP	1.03	1.55
		PM_{10}	1.03	1.55
		NO_X	0.033	0.033
		CO	0.05	0.05
		SO_2	<0.01	<0.01
S5	Shell Core Machine No. 5 (4)	TSP	1.03	1.55
		PM_{10}	1.03	1.55
		NO_x	0.033	0.033
		CO	0.05	0.05
		SO_2	<0.01	<0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
EF-1	Furnace Crucible No. 4 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1) *	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
EF-2	Furnace Crucible No. 5 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01
EF-3	Furnace Crucible No. 6 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01
EF-4	Furnace Crucible No. 7 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01
EF-5	Furnace Crucible No. 8 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01
EF-6	Furnace Crucible No. 9 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01
EF-7	Furnace Crucible No. 10 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		SO_2	<0.01	<0.01
EF-8	Furnace Crucible No. 11 600 lb. (4)	TSP	0.57	1.20
		PM_{10}	0.57	1.20
		NO_x	0.12	0.29
		CO	0.18	0.43
		SO_2	<0.01	<0.01
B-1	Air Set Sand Mixer/Molding 10.00 Machine No. 1 (4)	VOC		5.00
B-2	Air Set Sand Mixer/Molding 10.00 Machine No. 2 (4)	VOC		5.00
CR-1	Air Set Sand Mixer/Molding 0.50 Machine No. 3 (4)	VOC		0.50
CR-2	Air Set Sand Mixer/Molding 3.00 Machine No. 4 (4)	VOC		1.50
AF-1	850-KVA Electric Arc Furnace (4)	TSP	0.78	1.95
		PM_{10}	0.78	1.95
		CO	9.19	22.97
AF-2	1,000-KVA Electric Arc Furnace (4)	TSP	0.92	2.30
		PM_{10}	0.92	2.30
		CO	10.81	27.03
EPN-23A	Anneal Furnace No. 1 Exhaust	TSP	0.10	0.20
		PM_{10}	0.10	0.20

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		NO_x	0.20	0.50
		CO	0.30	0.80
EPN-23B	Anneal Furnace No. 2 Exhaust	TSP	0.10	0.20
		PM_{10}	0.10	0.20
		NO_x	0.10	0.25
		CO	0.15	0.40
F-1	Material Handling/ Storage (4)	TSP	0.80	1.20
		PM_{10}	0.40	0.60

(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) TSP - total particulate matter including PM_{10}
PM_{10} - particulate matter less than 10 microns in diameter
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
VOC - volatile organic compounds
(4) Fugitive emissions are an estimate only.

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

Hrs/day 16 Days/week 5 Weeks/year 50

Maximum iron/steel casting rate: Tons/hour 2.07
Tons/year 8,300
Maximum aluminum casting rate: Tons/hour 4.5
Tons/year 18,000
Maximum brass/bronze casting rate: Tons/hour 0.3

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AIR CONTAMINANTS DATA

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

_____Tons/year 450

Dated_____