EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7103

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
A	Rough Clean Dust Collector Stack (Cutoff and Power Pac)	PM/PM_{10}	1.30	5.70
B	8,000 cfm Sintamatic Dust Collector Stack (Cutoff)	PM/PM_{10}	0.86	3.77
C	Metal Control Dust Collector Stack (Metal Control)	PM/PM_{10}	0.42	1.81
AJ	Plant 2 Rough Clean Dust Collector Stack (Cutoff)	PM/PM_{10}	0.86	3.77
AAE	Rough Clean Dust Collector Stack (Knockout and CaseBlast)	PM/PM_{10}	0.01	0.04
AAD	Grit Reclaim Dust Collector Stack (Grit Reclaim)	PM/PM_{10}	<0.01	0.01
K	Dewax Furnace No. 1 (Johnston)	PM/PM_{10}	0.05	0.23
		VOC	0.73	1.11
		NO_x	0.73	3.20
		CO	0.52	2.29
		SO_2	0.01	0.03
L1	Dewax Furnace No. 2 (PKI)	PM/PM_{10}	0.04	0.16
		VOC	1.07	0.48
		NO_x	0.50	2.18
		CO	0.35	1.54
		SO_2	<0.01	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
L2	Cooling Tunnel	PM/PM_{10}	<0.01	<0.01
		VOC	<0.01	<0.01
		NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		SO_2	<0.01	<0.01
U	Casting Unit No. 2	PM/PM_{10}	<0.01	<0.01
		VOC	0.02	0.07
V	Casting Unit No. 3/Casting Unit No. 4	PM/PM_{10}	<0.01	<0.01
		VOC	0.03	0.13
W	Casting Unit No. 5/Casting Unit No. 6	PM/PM_{10}	<0.01	<0.01
		VOC	0.03	0.13
AV	Coil Vac Dry	PM/PM_{10}	<0.01	<0.01
		VOC	0.02	0.07
AX	Vac Dry No. 1-4 Vacuum Pumps	VOC	0.02	0.09
AM1	Dewax Furnace No. 3 (PKI)	PM/PM_{10}	0.04	0.18
		VOC	1.08	0.69
		NO_x	0.56	2.47
		CO	0.40	1.74
		SO_2	0.01	0.03
AM2	BC3 Cooling Tunnel	PM/PM_{10}	<0.01	<0.01
		VOC	<0.01	<0.01
		NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		SO_2	<0.01	<0.01
AU	Main Plant Can Slammers and Rollover Casting Units	PM/PM_{10}	5.62	2.76
AW	Plant 2 Can Slammers	PM/PM_{10}	5.62	2.76

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
AAH	Exotherm Fugitives (4)	PM/PM_{10}	1.25	0.61
AAJ	Shell and Penetrant and Cleaning Fugitives (4)	VOC	0.50	2.18
G	Main Plant Acid Room Scrubber Exhaust	HAP (HCl)	<0.01	0.02
H	Shell Core Removal No. 1	IOC-U	0.95	2.08
		PM/PM_{10}	0.01	0.05
		VOC	0.01	0.03
		NO_x	0.14	0.60
		CO	0.12	0.50
		SO_2	<0.01	<0.01
I	Shell Core Removal No. 2 and Core Removal Acid Bath	IOC-U	0.95	2.08
		PM/PM_{10}	0.01	0.05
		VOC	0.01	0.04
		NO_x	0.18	0.80
		CO	0.13	0.59
		SO_2	<0.01	<0.01
		HAP (HCl)	0.37	1.60
J	Shell Core Removal No. 3	IOC-U	0.95	2.08
		PM/PM_{10}	0.01	0.04
		VOC	0.01	0.04
		NO_x	0.11	0.50
		CO	0.10	0.42
		SO_2	<0.01	<0.01
AG	Shell Softening No. 4	IOC-U	0.95	2.08
		PM/PM_{10}	0.01	0.03
		VOC	0.01	0.02
		NO_x	0.09	0.40
		CO	0.08	0.34
		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
M	Dehumidification No. 3A	PM/PM_{10}	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.01	<0.01
P	Preheat Oven No. 2	PM/PM_{10}	0.01	0.06
		VOC	<0.01	0.03
		NO_x	0.17	0.70
		CO	0.13	0.54
		SO_2	<0.01	0.01
Q	Preheat Oven No. 3	PM/PM_{10}	0.01	0.06
		VOC	<0.01	0.03
		NO_x	0.17	0.70
		CO	0.13	0.54
		SO_2	<0.01	0.01
R	Preheat Oven No. 4	PM/PM_{10}	0.01	0.06
		VOC	<0.01	0.03
		NO_x	0.17	0.70
		CO	0.13	0.54
		SO_2	<0.01	0.01
S	Preheat Oven No. 5	PM/PM_{10}	0.01	0.06
		VOC	<0.01	0.03
		NO_x	0.17	0.70
		CO	0.13	0.54
		SO_2	<0.01	0.01
T	Preheat Oven No. 7	PM/PM_{10}	0.07	0.29
		VOC	0.05	0.21
		NO_x	0.89	3.88
		CO	0.74	3.25
		SO_2	0.01	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY
Y	Dehumidifier No. 2B	PM/PM_{10}	0.01	0.01
		VOC	0.01	0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.01	0.01
Z	Dehumidifier No. 3C	PM/PM_{10}	0.01	0.01
		VOC	0.01	0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.01	0.01
AO	Plant 2 Dehumidifier No. 8	PM/PM_{10}	0.01	0.02
		VOC	0.01	0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.01	0.01
AP	Plant 2 Dehumidifier No. 9	PM/PM_{10}	<0.01	0.02
		VOC	<0.01	<0.01
		NO_x	0.04	0.18
		CO	0.03	0.15
		SO_2	<0.01	0.02
AR	Preheat Oven No. 6	PM/PM_{10}	0.03	0.13
		VOC	0.02	0.10
		NO_x	0.39	1.73
		CO	0.33	1.45
		SO_2	<0.01	0.01
AS	Dehumidifier No. 6	PM/PM_{10}	0.01	0.02
		VOC	0.01	0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		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
AB	Backup Generator No. 1	PM/PM_{10}	0.83	0.36
		VOC	0.93	0.41
		NO_x	11.63	5.09
		CO	2.51	1.10
		SO_2	0.77	0.34
AAB	Back-up Generator No. 2	PM/PM_{10}	0.53	0.23
		VOC	0.53	0.23
		NO_x	18.12	7.94
		CO	4.15	1.82
		SO_2	6.11	2.68
AE	Heat Treat V1/V3, V2/V4, V5	VOC	0.03	0.13
AQ	Heat Treat V6/V9	VOC	0.01	0.04
AY	Monoshell Vac Dry B1/B2	VOC	0.01	0.04
AAF	Heat Treat V7	VOC	<0.01	0.02
AAG	Heat Treat V8	VOC	<0.01	0.02
AAU	GSD Fugitives	VOC	0.53	2.31
AAA	Preheat Oven No. 12	PM/PM_{10}	0.03	0.12
		VOC	0.02	0.08
		NO_x	0.36	1.55
		CO	0.28	1.23
		SO_2	<0.01	0.01
AA	Backup Line Desiccant Heater No. 2A-03	PM/PM_{10}	<0.01	0.02
		VOC	<0.01	0.01
		NO_x	0.05	0.22
		CO	0.04	0.18
		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	Emission Rates TPY
AAQ	Maintenance Shop Solvent Degreaser	VOC	0.03	0.12
AAR	Tool Room Solvent Degreaser	VOC	0.02	0.08
AAS	Welding -Building Fugitives	PM/PM_{10}	<0.01	0.01
AK	Casting Unit No. 11	PM/PM_{10}	<0.01	<0.01
		VOC	0.02	0.07
AAL	Interior Dust Collectors	PM/PM_{10}	<0.01	<0.01
AAO	Bluegold Aqueous Cleaner Plant 1	VOC	<0.01	<0.01
AAP	Bluegold Aqueous Cleaner Plant 2	VOC	<0.01	<0.01
	Individual HAPs			<10.00
	Total HAPs			<25.00

(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.
(3) PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
IOC-U - inorganic compounds (combination of citric acid, nitric acid, potassium hydroxide, and hydrogen chloride)
HAP(s) - hazardous air pollutants
HCl - hydrogen chloride
(4) Fugitive emissions are an estimate only.

Dated December 28, 2010