

## 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)	<u>Emission Rates</u>	
			lb/hr	TPY
A	15,000 cfm Dust Collector Stack (Cutoff and Power Pac)	PM/PM <sub>10</sub>	1.30	5.70
B	8,000 cfm Sintamatic Dust Collector Stack (Cutoff)	PM/PM <sub>10</sub>	0.86	3.77
C	4,800 cfm Sintamatic SU80 Dust Collector Stack (Metal Control)	PM/PM <sub>10</sub>	0.42	1.81
AJ	8,000 cfm Sintamatic Dust Collector Stack (Cutoff)	PM/PM <sub>10</sub>	0.86	3.77
AAE	3,200 cfm Torit Dust Collector Stack (Knockout and CaseBlast)	PM/PM <sub>10</sub>	0.01	0.04
AAD	1,000 cfm Torit Dust Collector Stack (Grit Reclaim)	PM/PM <sub>10</sub>	<0.01	0.01
K	Flash Fire Dewax Furnace and Afterburner	PM/PM <sub>10</sub>	0.12	0.64
		VOC	0.03	0.14
		NO <sub>x</sub>	1.02	4.38
		CO	0.48	2.12
		SO <sub>2</sub>	<0.01	0.02

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

L1	Dewax Furnace and Afterburner	PM/PM <sub>10</sub>	0.18	0.81
		VOC	0.05	0.21
		NO <sub>x</sub>	1.49	6.47
		CO	0.72	3.16
		SO <sub>2</sub>	<0.01	0.03
L2	Cooling Tunnel	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		CO	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
U	Casters No. 1	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	0.02	0.07
V	Casters No. 2	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	0.03	0.13
W	Casters No. 3	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	0.03	0.13
AV	Casters No. 5	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	0.02	0.07
AM1	BC3 Dewax Furnace and Afterburner	PM/PM <sub>10</sub>	0.17	0.84
		VOC	0.04	0.16
		NO <sub>x</sub>	1.29	5.60
		CO	0.55	2.42
		SO <sub>2</sub>	<0.01	0.02
AM2	BC3 Cooling Tunnel	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		CO	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
AU	Can Slammer No. 1	PM/PM <sub>10</sub>	5.62	2.76

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AW	BC3 Can Slammer No. 2	PM/PM <sub>10</sub>	5.62	2.76
FUG1	Can Slammer Fugitives (4)	PM/PM <sub>10</sub>	1.25	0.61
FUG2	Shell and Penetrant Inspection (4)	IOC-U	0.13	0.56
		VOC	0.38	0.84
H	Shell Core Removal No. 1	IOC-U	0.95	2.08
		PM/PM <sub>10</sub>	0.01	0.05
		VOC	0.01	0.03
		NO <sub>x</sub>	0.14	0.60
		CO	0.12	0.50
		SO <sub>2</sub>	<0.01	<0.01
I	Shell Core Removal No. 2 and Core Removal Acid Bath	IOC-U	0.95	2.08
		PM/PM <sub>10</sub>	0.01	0.05
		VOC	0.01	0.04
		NO <sub>x</sub>	0.18	0.80
		CO	0.13	0.59
		SO <sub>2</sub>	<0.01	<0.01
J	Shell Core Removal No. 3	HAP (HCl)	0.37	1.60
		IOC-U	0.95	2.08
		PM/PM <sub>10</sub>	0.01	0.04
		VOC	0.01	0.04
		NO <sub>x</sub>	0.11	0.50
		CO	0.10	0.42
AG	Shell Softening No. 4	SO <sub>2</sub>	<0.01	<0.01
		IOC-U	0.95	2.08

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		PM/PM <sub>10</sub>	0.01	0.03
		VOC	0.01	0.02
		NO <sub>x</sub>	0.09	0.40
		CO	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
M	Dehumidification No. 1	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.03	0.11
		CO	0.02	0.09
		SO <sub>2</sub>	<0.01	<0.01
O	Dehumidification No. 3	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.03	0.11
		CO	0.02	0.09
		SO <sub>2</sub>	<0.01	<0.01
P	Preheat Molds No. 2	PM/PM <sub>10</sub>	0.01	0.06
		VOC	<0.01	0.03
		NO <sub>x</sub>	0.17	0.70
		CO	0.13	0.54
		SO <sub>2</sub>	<0.01	0.01
Q	Preheat Molds No. 3	PM/PM <sub>10</sub>	0.01	0.06
		VOC	<0.01	0.03
		NO <sub>x</sub>	0.17	0.70
		CO	0.13	0.54
		SO <sub>2</sub>	<0.01	0.01
R	Preheat Molds No. 4	PM/PM <sub>10</sub>	0.01	0.06
		VOC	<0.01	0.03
		NO <sub>x</sub>	0.17	0.70
		CO	0.13	0.54
		SO <sub>2</sub>	<0.01	0.01
S	Preheat Molds No. 5	PM/PM <sub>10</sub>	0.01	0.06
		VOC	<0.01	0.03
		NO <sub>x</sub>	0.17	0.70
		CO	0.13	0.54
			<0.01	0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		SO <sub>2</sub>		
T	Preheat Molds No. 7	PM/PM <sub>10</sub>	0.01	0.06
		VOC	<0.01	0.03
		NO <sub>x</sub>	0.17	0.70
		CO	0.13	0.54
		SO <sub>2</sub>	<0.01	0.01
Y	Dehumidification No. 4 and Dehumidification No. 6	PM/PM <sub>10</sub>	0.01	0.05
		VOC	0.01	0.06
		NO <sub>x</sub>	0.19	0.83
		CO	0.16	0.70
		SO <sub>2</sub>	<0.01	<0.01
Z	Dehumidification No. 5	PM/PM <sub>10</sub>	0.01	0.05
		VOC	<0.01	0.03
		NO <sub>x</sub>	0.14	0.61
		CO	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
AC	Autoclave Boiler	PM/PM <sub>10</sub>	0.02	0.07
		VOC	0.01	0.05
		NO <sub>x</sub>	0.21	0.92
		CO	0.18	0.77
		SO <sub>2</sub>	<0.01	<0.01
AO	BC3 Dehumidification No. 7	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.03	0.11
		CO	0.02	0.09
		SO <sub>2</sub>	<0.01	<0.01
AP	BC3 Dehumidification No. 8	PM/PM <sub>10</sub>	<0.01	0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.04	0.18
		CO	0.03	0.15
		SO <sub>2</sub>	<0.01	<0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AR	Preheat Molds No. 6	PM/PM <sub>10</sub>	0.03	0.13
		VOC	0.02	0.09
		NO <sub>x</sub>	0.39	1.72
		CO	0.33	1.44
		SO <sub>2</sub>	<0.01	0.01
AS	Dehumidification No. 11	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.03	0.11
		CO	0.02	0.09
		SO <sub>2</sub>	<0.01	<0.01
AB	Backup Generator No. 1	PM/PM <sub>10</sub>	0.83	0.36
		VOC	0.93	0.41
		NO <sub>x</sub>	11.63	5.09
		CO	2.51	1.10
		SO <sub>2</sub>	0.77	0.34
AAB	Back-up Generator No. 2	PM/PM <sub>10</sub>	0.53	0.23
		VOC	0.53	0.23
		NO <sub>x</sub>	18.12	7.94
		CO	4.15	1.82
		SO <sub>2</sub>	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 Furnace No. 12	PM/PM <sub>10</sub>	0.03	0.12
		VOC	0.02	0.08
		NO <sub>x</sub>	0.36	1.55
		CO	0.28	1.23

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		SO <sub>2</sub>	<0.01	0.01
AA	Backup Line Desiccant Heater No. 2A-03	PM/PM <sub>10</sub>	<0.01	0.02
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.05	0.22
		CO	0.04	0.18
		SO <sub>2</sub>	<0.01	<0.01
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 <sub>10</sub>	<0.01	0.01
AK	Casting Unit No. 11	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	0.02	0.07
DUST-FUG	Interior Dust Collectors	PM/PM <sub>10</sub>	<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<sub>10</sub> and PM<sub>2.5</sub>
- PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
- PM<sub>2.5</sub> - 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<sub>x</sub> - total oxides of nitrogen
- CO - carbon monoxide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- SO<sub>2</sub> - sulfur dioxide
  - IOC-U - inorganic compounds (combination of citric acid, nitric acid, and hydrogen chloride)
  - HAP(s) - hazardous air pollutants
  - HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only.

Dated March 1, 2010