

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 214A

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 amendment 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
1	Shell Core Machines (4) (Six Each Machines)	PM/PM <sub>10</sub>	0.02	0.06
		NO <sub>x</sub>	0.32	1.00
		SO <sub>2</sub> 0.01	0.03	
		CO 0.07	0.22	
		Phenol	0.20	0.61
		Aldehydes	0.06	0.19
		Organic Acid	0.01	0.03
2	Isocure Core Machines Scrubber Stack (Six Each Machines)	NH <sub>3</sub>	0.45	1.40
3B	Melt Furnace No. 2 Stack (Natural Gas)	PM/PM <sub>10</sub>	0.07	0.22
		NO <sub>x</sub>	0.60	1.87
		SO <sub>2</sub> <0.01	0.03	
		CO 0.13	0.41	
		VOC 0.04	0.12	
3C	Melt Furnace No. 3 Stack (Natural Gas)	PM/PM <sub>10</sub>	0.35	1.10
		NO <sub>x</sub>	0.70	2.15
		SO <sub>2</sub> <0.01	0.01	
		CO 0.60	1.81	
		VOC 0.04	0.12	
3D	Melt Furnace No. 4 Stack (Electric)	PM	0.65	2.03
3E	Melt Furnace No. 5 Stack (Electric)	PM	0.65	2.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
3F	Melt Furnace No. 6 Stack (Electric)	PM	0.52	1.63
3G	Melt Furnace No. 7 Stack (Natural Gas)	PM/PM <sub>10</sub>	0.49	1.53
		NO <sub>x</sub>	0.40	1.25
		SO <sub>2</sub>	0.01	0.03
		CO	0.12	0.37
		VOC	0.04	0.12
7A	Heat Treat Oven A	PM/PM <sub>10</sub>	0.02	0.06
		NO <sub>x</sub>	0.40	1.25
		SO <sub>2</sub>	0.01	0.03
		CO	0.01	0.01
		VOC	0.04	0.12
7B	Heat Treat Oven B	PM/PM <sub>10</sub>	0.02	0.06
		NO <sub>x</sub>	0.40	1.25
		SO <sub>2</sub>	0.01	0.03
		CO	0.01	0.03
		VOC	0.04	0.12
7C	Heat Treat Oven C	PM/PM <sub>10</sub>	0.02	0.06
		NO <sub>x</sub>	0.40	1.25
		SO <sub>2</sub>	0.01	0.03
		CO	0.01	0.03
		VOC	0.04	0.12
9A	Aging Oven A	PM/PM <sub>10</sub>	0.01	0.03
		NO <sub>x</sub>	0.20	0.62
		SO <sub>2</sub>	0.01	0.03
		CO	0.01	0.03
		VOC	0.02	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
9B	Aging Oven B	PM/PM <sub>10</sub>	0.01	0.03
		NO <sub>x</sub> 0.20	0.62	
		SO <sub>2</sub> 0.01	0.03	
		CO 0.01	0.03	
		VOC 0.02	0.06	
9C	Aging Oven C	PM/PM <sub>10</sub>	0.01	0.03
		NO <sub>x</sub> 0.20	0.62	
		SO <sub>2</sub> 0.01	0.03	
		CO 0.01	0.03	
		VOC 0.02	0.06	
10A	Sandblasting Baghouse Stack	PM/PM <sub>10</sub>	0.60	1.87
10B	Rap Room Dust Control Baghouse Stack	PM/PM <sub>10</sub>	0.60	1.87
11A	Sand Reclaim/Calciner Burner Baghouse Stack	PM/PM <sub>10</sub>	1.65	5.13
		NO <sub>x</sub>	<0.01	<0.01
		SO <sub>2</sub> <0.01	<0.01	
		CO	0.63	2.74
		VOC	<0.01	<0.01

(1) Emission point identification - either specific equipment designation or emission point number

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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>.  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NH<sub>3</sub> - ammonia  
Pb - lead
- (4) Fugitive emissions are an estimate only.

Dated October 31, 2007