

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 25232

This table lists the maximum allowable emission rates and all sources of air contaminants covered by this permit.

AIR

## CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
E1	Batching and Grinding Stack	PM	1.82	7.94
E2	Spray Drier Stack	NO <sub>x</sub>	1.62	6.08
		SO <sub>2</sub>	<0.01	0.03
		CO	0.41	1.52
		PM	1.69	6.35
		VOC	0.07	0.26
		HF	<0.01	0.03
E3	Powder Storage Stack	PM	0.87	3.80
E4	Pressing Stack	PM	2.05	8.97
E5	Normal Pieces Drier Stack	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05
E5A	Normal Pieces Drier Stack	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05
E6	Normal Pieces Drier Stack	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
E6A	Normal Pieces Drier Stack	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05
E7	Trim Pieces Drier Stack	NO <sub>x</sub>	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
		PM	<0.01	0.02
		VOC	<0.01	0.03
E8	Trim Pieces Drier Stack	NO <sub>x</sub>	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
		PM	<0.01	0.02
		VOC	<0.01	0.03
E10	Fast Firing Stack (Normal Pieces)	NO <sub>x</sub>	0.88	3.84
		SO <sub>2</sub>	<0.01	0.03
		CO	0.18	0.77
		PM	0.21	0.92
		VOC	0.07	0.31
		HF	0.39	1.71
E12	Preheating	NO <sub>x</sub>	0.04	0.17
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.01	0.04
		PM	<0.01	<0.01
		VOC	<0.01	0.02
E13	Fast Firing Stack (Trim Pieces)	NO <sub>x</sub>	0.41	1.79
		SO <sub>2</sub>	<0.01	0.02
		CO	0.09	0.36

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		PM	0.06	0.25
		VOC	0.04	0.15
		HF	0.09	0.36
E15	Glaze and Weighing and 0.38 Grinding Stack		PM	0.09
E16	Area Collector Stack	PM	0.08	0.35
E17	20 KVA Emergency Generator	NO <sub>x</sub>	0.71	0.10
		SO <sub>2</sub>	0.05	<0.01
		CO	0.16	0.03
		PM	0.05	<0.01
		VOC	0.06	<0.01
E18	12 KVA Emergency Generator	NO <sub>x</sub>	0.43	0.06
		SO <sub>2</sub>	0.03	<0.01
		CO	0.10	0.02
		PM	0.03	<0.01
		VOC	0.04	<0.01
E21	Pressing II	PM	2.05	8.97
E22	Normal Pieces Drier Stack II	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05
E22A	Normal Pieces Drier Stack II	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
		VOC	<0.01	0.05
E23	Normal Pieces Drier Stack II	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05
E23A	Normal Pieces Drier Stack II	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.03	0.11
		PM	<0.01	0.03
		VOC	<0.01	0.05
E24	Trim Pieces Drier Stack II	NO <sub>x</sub>	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
		PM	<0.01	0.02
		VOC	<0.01	0.03
E25	Trim Pieces Drier Stack II	NO <sub>x</sub>	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
		PM	<0.01	0.02
		VOC	<0.01	0.03
E26	Preheating II	NO <sub>x</sub>	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
		PM	<0.01	0.02
		VOC	<0.01	0.03
E27	Preheating II	NO <sub>x</sub>	0.06	0.20
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.04

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
		PM	<0.01	0.02
		VOC	<0.01	0.02
		HF	<0.01	<0.01
E28	Preheating II	NO <sub>x</sub>	0.08	0.34
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
		PM	<0.01	0.02
		VOC	<0.01	0.03

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hrTPY	
E29	Fast Firing Stack II (Trim Pieces)	NO <sub>x</sub>	0.41	1.79
		SO <sub>2</sub>	<0.01	0.02
		CO	0.09	0.36
		PM	0.06	0.25
		VOC	0.04	0.15
		HF	0.09	0.36
E31	Fast Firing Stack II (Normal Pieces)	NO <sub>x</sub>	0.88	3.84
		SO <sub>2</sub>	<0.01	0.03
		CO	0.18	0.77
		PM	0.21	0.92
		VOC	0.07	0.31
		HF	0.39	1.71
E33	12 KVA Emergency Generator II	NO <sub>x</sub>	0.43	0.06
		SO <sub>2</sub>	0.03	<0.01
		CO	0.10	0.02
		PM	0.05	<0.01
		VOC	0.06	<0.01
E34	20 KVA Emergency Generator II	NO <sub>x</sub>	0.71	0.10
		SO <sub>2</sub>	0.05	0.01
		CO	0.15	0.02
		PM	0.05	0.01
		VOC	0.06	0.01
E41	Fast Firing III Trim Pieces	NO <sub>x</sub>	0.68	2.97
		SO <sub>2</sub>	<0.01	0.02
		CO	0.14	0.60
		PM	0.08	0.34
		VOC	0.06	0.24
		HF	0.10	0.44

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E43	Preheating III	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	0.01
		CO	0.03	0.11
		PM	0.01	0.03
		VOC	0.01	0.05
E44	Preheating III	NO <sub>x</sub>	0.12	0.51
		SO <sub>2</sub>	<0.01	0.01
		CO	0.03	0.11
		PM	0.01	0.03
		VOC	0.01	0.05
E45	15 KVA Emergency Generator III	NO <sub>x</sub>	0.53	0.08
		SO <sub>2</sub>	0.04	0.01
		CO	0.12	0.02
		PM	0.04	0.01
		VOC	0.05	0.01

(1) Emission point identification - emission point number from plot plan.

(2) Specific point source name.

(3) NO<sub>x</sub> -total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

CO - carbon monoxide

PM - particulate matter

VOC - volatile organic compounds as defined in General Rule 101.1

HF - hydrogen fluoride

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

All emission points except Emission Point Nos. E2, E17, E18, E33, E34, and E45 have the following operating schedule: Hrs/year 8,760

Emission Point No. E2 has the following operating schedule: Hrs/year 7,512

Emission Points No. E17, E18, E33, E34 and E45 have the following operating schedule:  
Hrs/year 275

Dated \_\_\_\_\_