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, sources, and related activities. 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 (6)	
			lbs/hour	TPY (4)
AR	Preheat Oven No. 6 Stack	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		NO_x	0.39	1.72
		CO	0.33	1.44
		SO_2	<0.003	0.01
A	Rough Clean Dust Collector Stack (Cutoff and Power Pac)	PM	1.30	5.70
		PM_{10}	1.30	5.70
		$PM_{2.5}$	0.39	1.71
B	Unit No. 4 Dust Collector Stack	PM	0.69	3.02
		PM_{10}	0.69	3.02
		$PM_{2.5}$	0.21	0.91
C	Metal Control Unit 10 Dust Collector Stack	PM	0.41	1.80
		PM_{10}	0.41	1.80
		$PM_{2.5}$	0.12	0.54
AJ	Plant 2 Rough Clean Dust Collector No. 19 Stack (Cutoff)	PM	0.69	3.00
		PM_{10}	0.69	3.00
		$PM_{2.5}$	0.21	0.90
AAE	Rough Clean Dust Collector No. 45 Stack (Knockout and Case Blast)	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04

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AAD	Grit Reclaim Dust Collector No. 46 Stack	PM	0.003	0.01
		PM_{10}	0.003	0.01
		$PM_{2.5}$	0.003	0.01
K	Dewax Furnace No. 1 and Afterburner Stack	PM	0.18	0.80
		PM_{10}	0.18	0.80
		$PM_{2.5}$	0.18	0.80
		VOC	1.24	5.44
		NO_x	1.60	6.99
		CO	0.70	3.08
		SO_2	0.59	2.61
L1	Dewax Furnace No. 2 and Afterburner Stack	PM	0.17	0.73
		PM_{10}	0.17	0.73
		$PM_{2.5}$	0.17	0.73
		VOC	1.23	5.40
		NO_x	1.40	6.13
		CO	0.54	2.36
		SO_2	0.59	2.60
L2	PKI Furnace Cooling Tunnel (Main) Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<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 Stack	PM	<0.001	<0.001
		PM_{10}	<0.001	<0.001
		$PM_{2.5}$	<0.001	<0.001
		VOC	0.02	0.07
V	Casting Unit No. 3	PM	<0.001	<0.001

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		PM_{10}	<0.001	<0.001
		$PM_{2.5}$	<0.001	<0.001
		VOC	0.03	0.13
W	Casting Unit No. 5 and No. 6 Stack	PM	<0.001	0.002
		PM_{10}	<0.001	0.002
		$PM_{2.5}$	<0.001	0.002
		VOC	0.03	0.13
AV	Coli Vac Dry Stack	VOC	0.02	0.07
AE	Vacuum Pump V1/V3,V2/V4, and V5 Stack	VOC	0.03	0.13
AQ	Heat Vacuum Pump V6/V9 Stack	VOC	<0.01	0.04
AY	Vac Dry B1/B2 Vaccum Pumps Stack (Plant 2)	VOC	0.01	0.04
AAF	Vacuum Pump V7 Stack (Plant 2)	VOC	<0.004	0.02
AAG	Vacuum Pump V8 Stack (Plant 2)	VOC	<0.004	0.02
AM1	Dewax Furnace No. 3 and Afterburner Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
		$PM_{2.5}$	0.17	0.75
		VOC	1.23	5.41
		NO_x	1.45	6.35
		CO	0.58	2.54
		SO_2	0.59	2.80
AM2	PKI Furnace Cooling Tunnels Stack (Plant 2)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		VOC	<0.01	<0.01
		NO_x	<0.01	<0.01

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		CO	<0.01	<0.01
		SO_2	<0.01	<0.01
AU	Main Plant Can Slammer No. 1 and Rollover Casting Unit Stack	PM	1.46	6.41
		PM_{10}	1.46	6.41
		$PM_{2.5}$	1.46	6.41
		HF	0.54	2.39
AW	Plant 2 Can Slammer No. 2 Stack	PM	0.37	1.60
		PM_{10}	0.37	1.60
		$PM_{2.5}$	0.37	1.60
		HF	0.14	0.60
AAJ	FPI Fugitives (5)	VOC	0.69	3.02
		Acetone	0.34	1.50
H	Shell Core Removal No. 1 Stack (KOH Bath and Heater and Rough Clean Acid Bath in KOH)	KOH	0.47	2.08
		PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC	<0.01	0.04
		NO_x	0.15	0.64
		CO	0.12	0.54
		SO_2	<0.001	<0.004
I	KOH Bath and Heater Stack	KOH	0.47	2.08
		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		VOC	0.01	0.04
		NO_x	0.17	0.75
		CO	0.14	0.63
		SO_2	0.001	<0.005
		HCl	0.37	1.60

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J	KOH Bath and Heater Stack	KOH	0.47	2.08
		PM	<0.01	0.03
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<0.01	0.03
		VOC	<0.01	0.02
		NO_x	0.11	0.50
		CO	0.10	0.43
		SO_2	<0.01	<0.01
AG	Lo Temp Shell Softening Heater Stack	KOH	0.47	2.08
		PM	<0.01	0.03
		PM_{10}	<0.01	0.03
		$PM_{2.5}$	<0.01	0.03
		VOC	<0.01	0.02
		NO_x	0.07	0.32
		CO	0.08	0.36
		SO_2	<0.01	<0.01
M	Dehumidifier No. 3A-05 Burner Stack (Desiccant Heater)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.001	<0.001
O	Dehumidifer No. 3B Burner Stack	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13

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		SO_2	<0.001	<0.001
P	Preheat Oven No. 2 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC	<0.01	0.03
		NO_x	0.14	0.60
		CO	0.12	0.50
		SO_2	<0.001	<0.01
Q	Preheat Oven No. 3 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC	<0.01	0.03
		NO_x	0.14	0.60
		CO	0.12	0.50
		SO_2	<0.001	<0.01
R	Preheat Oven No. 4 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC	<0.01	0.03
		NO_x	0.14	0.60
		CO	0.12	0.50
		SO_2	<0.001	<0.01
S	Preheat Oven No. 5 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		VOC	<0.01	0.03
		NO_x	0.14	0.60
		CO	0.12	0.50
		SO_2	<0.001	<0.01
Y	Dehumidifier No. 2B Burner Stack	PM	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.001	<0.001
Z	Dehumidifier No. 3C-07 Burner Stack (Desiccant Heater)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.001	<0.001
AO	Plant 2 Dehumidifier No. 8 Burner Stack (Desiccant Heater)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.001	<0.001
AS	Plant 2 Dehumidifier No. 6 Burner Stack (Desiccant Heater)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.001	<0.001
AP	Plant 2 Dehumidifier No. 9 Burner Stack (Desiccant Heater)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01

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		VOC	<0.01	<0.01
		NO_x	0.03	0.15
		CO	0.03	0.13
		SO_2	<0.001	<0.001
AB	Emergency Generator No. 1 Stack (Plant 2)	PM	0.83	0.36
		PM_{10}	0.83	0.36
		$PM_{2.5}$	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	Emergency Generator No. 2 Stack (Plant 1)	PM	0.53	0.23
		PM_{10}	0.53	0.23
		$PM_{2.5}$	0.53	0.23
		VOC	0.53	0.23
		NO_x	18.12	7.94
		CO	4.15	1.82
		SO_2	6.11	2.66
AAU	Generated Steam Dewax Oil Bath Plant 1 (5)	VOC	0.53	2.31
AAA	Preheat Oven No. 12 Stack (Plant 2)	PM	0.02	0.11
		PM_{10}	0.02	0.11
		$PM_{2.5}$	0.02	0.11
		VOC	0.02	0.08
		NO_x	0.33	1.43
		CO	0.28	1.20
		SO_2	<0.01	<0.01
AA	Backup Line Desiccant Heater No. 2A-03 Burner Stack	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02

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		VOC	<0.01	0.01
		NO_x	0.05	0.22
		CO	0.04	0.18
		SO_2	<0.001	<0.01
AAQ	Maintenance Shop Solvent Degreaser (5)	VOC	0.12	0.55
AAR	Tool Room Solvent Degreaser (5)	VOC	0.07	0.29
AAS	Welding (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01
AK	Casting Unit N0. 11 Vacuum Pump Stack	PM	<0.01	<0.001
		PM_{10}	<0.01	<0.001
		$PM_{2.5}$	<0.01	<0.001
		VOC	0.02	0.07
AAO	Parts Cleaner Plant 1 Stack	VOC	0.02	0.10
AAP	Parts Cleaner Plant 2 Stack	VOC	0.02	0.10
AX	Vac Dry No. 1-4 Vacuum Pumps Stack (Main Plant)	VOC	0.02	0.09
G	Acid Room Scrubber Stack	HCl	<0.01	0.02
AD	Lab Vent Hood Stack	PM	<0.01	<0.001
		PM_{10}	<0.01	<0.001
		$PM_{2.5}$	<0.01	<0.001
		HCl	<0.01	0.01
AN	Plant 2 Acid Scrubber Stack	HCl	<0.01	0.01
AAK	Plant 1 Wax (Core Floating) (5)	VOC	0.12	0.54
AAH	Exotherm and Sugar Application in Can	PM	0.21	0.90

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.21	0.90
		$PM_{2.5}$	0.21	0.90
AAL	Building Fugitives (Interior Dust Collectors) (5)	PM	<0.001	<0.006
		PM_{10}	<0.001	<0.006
		$PM_{2.5}$	<0.001	<0.006
AAW1	Dewax Furnace No. 4 and Afterburner Stack	PM	0.20	0.87
		PM_{10}	0.20	0.87
		$PM_{2.5}$	0.20	0.87
		VOC	1.25	5.49
		NO_x	1.80	7.88
		CO	0.87	3.81
		SO_2	0.60	2.65
AAW2	Dewax Furnace Cooling Tunnels	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<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
MSS	Maintenance, Startup, and Shutdown (5)	PM	1.77	0.11
		PM_{10}	1.77	0.11
		$PM_{2.5}$	1.77	0.11
		VOC	0.07	<0.01

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented

Emission Sources - Maximum Allowable Emission Rates

PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
KOH - potassium hydroxide
HCl - hydrogen chloride
HF - hydrogen fluoride

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Planned startup and shutdown emissions are included. Except for maintenance activities shown in Table No. 4 of the Special Conditions, maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet the conditions of 30 TAC 116.119.

Date: April 15, 2015