

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 3372

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 (8)	
			lbs/hour	TPY (7)
VPS-001 through VPS-004	Virgin PS Silo Vents	PM	0.24	0.34
PFEXT-001	Process Extruder Feed Bins	PM	0.19	0.54
PFNP-001	Non-Process Fugitives (Flanges, Pumps, Valves, etc.)	VOC	1.88	(4)
PFEXT-002 through PFEXT-004	Extrusion Buildings	VOC	34.20	(4)
PFEXT-005	Process Extruder Feed Boxes	PM	< 0.01	< 0.01
PFRS-001, PFRS-002	Roll Storage Areas	VOC	34.30	(4)
T/F-001 and T/F-002	Vacuum Pump Vents	VOC	0.69	(4)
PFT/F-01 through PFT/F-03	Thermoformer Buildings	VOC	33.60	(4)
PFWH-070 through PFWH-072, and PFWH-074	Warehouses	VOC	13.47	(4)
RTO-001	Regenerative Thermal Oxidizer	VOC	12.04	(4)
		NO <sub>x</sub>	1.68	3.15
		CO	0.42	0.66
		SO <sub>2</sub>	0.01	0.03
		PM	0.05	0.24
BLD-054	Reclaim Extruder Dryers	VOC	0.24	(4)
RPP-001 through RPP-011	Reclaim Resin Silo Vents	PM	0.05	0.20
RPP-012	Nucleating Agent Silo	PM	0.12	< 0.01
FPP-001	TFPP Flake Silo Vent	PM	0.15	0.66

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VPP-001 and VPP-002	TFPP Virgin Silo Vents	PM	0.12	0.05
PFTP-001	TFPP Extruder Exhaust	VOC	0.09	(4)
		PM	0.2	0.89
OPS-001	OPS Thermoformers	VOC	< 0.01	(4)
FOPS-01 and FOPS-02	OPS Flake Silo Vents	PM	0.41	1.79
ROPS-001 and ROPS-002	OPS Resin Silo Vents	PM	0.02	0.08
PFCT-01	Cooling Towers	PM	< 0.01	< 0.01
WHH-70 through WHH-73	Warehouse Heaters 70 through 73	VOC (combustion)	0.02	0.09
		NO <sub>x</sub>	0.11	0.48
		SO <sub>2</sub>	< 0.01	0.01
		PM	0.03	0.13
		CO	0.32	1.40
T-1	Polymer Silo Vent	PM	0.04	0.19
T-2	PP Use Bin Vacuum Loader Receiver	PM	0.06	0.26
T-3	PP Weigh-Feeder Hopper Vent	PM	< 0.01	0.01
T-4	Filler Silo Vent	PM	0.09	0.39
T-5	Filler Silo Vent	PM	0.09	0.39
T-6	Filler Use Bin Receiver Filter	PM	0.05	0.22
T-7	Filler Weigh-Feeder Hopper Vent	PM	< 0.01	0.01
T-8	Filler Use Bin Receiver Filter	PM	0.05	0.22
T-9	Filler Weigh-Feeder Hopper Vent	PM	< 0.01	0.01
T-10	Flake Silo Dust Collector	PM	1.11	4.88
T-11	Flake Use Bin (1A) Vacuum Loader Receiver	PM	0.06	0.25
T-12	Flake Weigh-Feeder Hopper (1A) Vent	PM	< 0.01	0.01

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T-13	Flake Use Bin (2A) Vacuum Loader Receiver	PM	0.06	0.25
T-14	Flake Weigh-Feeder Hopper (2A) Vent	PM	< 0.01	0.01
T-15	Out-of-Spec Flake Vacuum Loader Receiver	PM	0.05	0.22
T-16	Central Dust Collector	PM	0.06	0.26
T-19	Super-Sak Collector	PM	0.39	1.71
T-20	Blower Room Exhaust Fan	PM	0.17	0.75
T-21	TFPP Penthouse Exhaust Fan	PM	0.01	0.06
T-22	Extruder Die Exhaust Fan	PM	0.06	0.24
T-23	Polymer Weigh-Feeder Hopper Vent	PM	0.06	0.26
T-24	Polymer Weigh-Feeder Hopper Vent	PM	< 0.01	0.01
F-CPH	Compass Penthouse Exhaust Fan	PM	0.48	2.09
DIE-581	Compass Die Hood Exhaust	PM	0.15	0.68
Plant-wide HAP Limits		Single HAP (5)		< 10.00
		Total HAP (6)		< 25.00
Planned Maintenance, Startup, and Shutdown Emissions				
RTO-MSS-1 through 19 (stacks)	RTO Downtime Emissions: Fluff Silos 1 through 14, Reclaim Extruder Vent, and Reclaim Extruder Bins 1 through 4	VOC	192.00	11.45
EXT-MSS-1 through 16 (roof vents)	Extruder Startup Emissions - Building Vents 1 through 16	VOC	42.72	16.00
RTO-001	RTO Bakeout Emissions	PM	2.84	0.02
		PM <sub>10</sub>	2.84	0.02
		PM <sub>2.5</sub>	2.84	0.02
		VOC	0.06	<0.01
		Styrene	<0.01	<0.01

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		Toluene	<0.01	<0.01
		NO <sub>x</sub>	0.90	0.01
		CO	0.76	<0.01
		SO <sub>2</sub>	0.01	<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.
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
  - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Cumulative VOC blowing agent emissions from this permit shall not exceed 572 tpy.
- (5) The emission rate of a single HAP is limited to less than 10 tpy.
- (6) The total emission rate of all HAP is limited to less than 25 tpy.
- (7) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (8) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: November 10, 2014