

## EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Number 18105/PAL3

This table lists the emission caps and individual emission limitations 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**

#### VOC SOURCES

Fugitives (4), Flares, Analyzers, Tanks, Finishing, Product Processing, Routine MSS	VOC	143.8	164.5
Intermittent Flares MSS 6.1 (5)	VOC		1123.8
Atmospheric MSS	VOC	387.6	3.87
Plantwide Applicability Limit	VOC		167.3

#### NO<sub>x</sub> SOURCES

Flares	NO <sub>x</sub>	27.8	13.4
Intermittent Flares MSS 1.2		NO <sub>x</sub>	172.4
Plantwide Applicability Limit	NO <sub>x</sub>		13.8

#### CO SOURCES

Flares, Fugitives (4)	CO	111.1	115.1
Intermittent Flares MSS 5.8		CO	716.5
Plantwide Applicability Limit	CO		117.7

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## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

SO<sub>2</sub> SOURCES

Flares and Intermittent Flares MSS		SO <sub>2</sub>	0.1	0.2
Plantwide Applicability Limit		SO <sub>2</sub>		0.2

PM SOURCES

Finishing, Product Processing, Routine MSS		PM	9.9	35.5
Plantwide Applicability Limit		PM		35.5

ACETONE SOURCES

Product Processing		Acetone	9.23	6.98
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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) A specific point source name. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
  - PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
  - SO<sub>2</sub> - sulfur dioxide
  - NO<sub>x</sub> - nitrogen oxides
  - CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The annual emissions rate only includes the propylene unloading flare and emissions from the synthesis area flare for reactor maintenance, start-up, and shutdown (MSS). The remainder of the authorized annual MSS emissions from the synthesis area flares as included in the line above.

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

\_\_\_\_\_ Hrs/day    \_\_\_ Days/week    \_\_\_\_\_ Weeks/year or 8,760 Hrs/year

- \*\* Compliance with the emission caps shall be based on a 12-month rolling emissions.

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## EMISSION POINT CATEGORIES

<b><u>Category</u></b>	<b><u>EPN</u></b>	<b><u>Description</u></b>
Flares	238FL301	PP-2 Line 1 Flare
	238FL301A	PP-2 Line 2 Flare
Intermittent Flares No. 4 No. 4 No. 4	238FL301	PP-2 Line 1 Flare as identified in Special Condition No. 4
	238FL301A	PP-2 Line 2 Flare as identified in Special Condition No. 4
	238FL330	PP-2 Line 1 High Pressure Flare as identified in Special Condition
	238FL330A	PP-2 Line 2 High Pressure Flare as identified in Special Condition
	RCUMMSF	Propylene Unloading Rack Flare as identified in Special Condition
Fugitives	F029FG	Feed Purification Area Fugitives
	F072PR1	Line 1 Synthesis Fugitives
	F072FG2A	Line 2 Fugitives
	F029MR1	Line 1 Material Recovery Area Fugitives
	RCUF	Propylene Unloading Rack Fugitives
Analyzers	029AV3	Feed Purification Analyzer Vents
	072AV1	Line 1 Synthesis Area Analyzer Vents
	072AV2	Line 2 Synthesis Area Analyzer Vents
	029AV4	Line 1 Material Recovery Analyzer Vents
	029AV5	Line 2 Material Recovery Analyzer Vents
	139AV	Propylene Unloading Analyzer Vents
Tanks	072T150	Catalyst Tank
	148T153	Peeb Tank
	148T157	Peeb Tank
	072T158	Peeb Tank
	072T159	Peeb Tank
	148T151	Teal System Tank
	072C110	Compressor Oil Reservoir
	072C120	Compressor Oil Reservoir
	072T150A	Catalyst Tank
	148T153A	Peeb Tank
	148T155A-D	Teal System Waste Tanks
	148T157A	Peeb Tank
	072C110A	Compressor Oil Reservoir
	072T133	Peroxide Tank
	072T139	Peroxide Tank
	072T133A	Peroxide Tank

072T139A	Peroxide Tank
064T104G	Peroxide Tank
064T137	Peroxide Tank

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## EMISSION POINT CATEGORIES

<b><u>Category</u></b>	<b><u>EPN</u></b>	<b><u>Description</u></b>
Finishing	072F251	Synthesis Area Baghouse (Line 1 Recycle Feed Bin/Pellet Receiver, Pellet Surge Hopper, Alutriators, Bag Dump Station, Drum Dump Station, Extruder Feed/Mixer Hopper, Pellet and Powder Loading; Line 2 Recycle Feed Bin/Pellet Receiver, Pellet Surge Hopper, Alutriators, Bag Dump Station, Drum Dump Station, Extruder Feed/Mixer Hopper, Pellet and Powder Loading; other support facilities)
	072D141	Line 1 Pellet Dryer with Exhaust Blower
	072MS1	Line 1 Miscellaneous Insignificant Sources
	072D141A	Line 2 Pellet Dryer with Exhaust Blower
	072MS2A	Line 2 Miscellaneous Insignificant Sources
	072EX141	Line 1 Extruder
	072EX141A	Line 2 Extruder
Product Processing	063D391	Pellet Storage Bin
	063D392	Pellet Storage Bin
	063D393	Pellet Storage Bin
	064D209	New Make Pellet Bin
	064D210	New Make Pellet Bin
	064D211	New Make Pellet Bin
	064F126	Processing Area Baghouse (Pellet Transition Bin, New Make Pellet Bin, Pellet/Powder Feed Bins, Pellet Metering Bins, Feeders, other support facilities)
	064D301	Pellet Storage Bin
	064D302	Pellet Storage Bin
	064D303	Pellet Storage Bin
	064D304	Pellet Storage Bin
	064D305	Pellet Storage Bin

064D306	Pellet Storage Bin
064D307	Pellet Storage Bin
064D308	Pellet Storage Bin
064D309	Pellet Storage Bin
064D310	Pellet Storage Bin
064D311	Pellet Transition Bin
064D312	Pellet Transition Bin
064F315	Pellet Metering Bin
064F316	Pellet Metering Bin

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<u>Category</u>	<u>EPN</u>	<u>Description</u>
Product Processing (con't)	064F317	Pellet Metering Bin
	064D351	Pellet Packaging Bin
	064D352	Pellet Packaging Bin
	064D353	Pellet Packaging Bin
	064D354	Pellet Packaging Bin
	064D355	Pellet Packaging Bin
	064D356	Pellet Packaging Bin
	064D357	Pellet Packaging Bin
	064D371	Pellet Storage Bin
	064D372	Pellet Storage Bin
	064D373	Pellet Storage Bin
	064D374	Pellet Storage Bin
	064D375	Pellet Storage Bin
	064D376	Pellet Storage Bin
	064D381	Pellet Storage Bin
	064D382	Pellet Storage Bin
	064D384	Pellet Storage Bin
	064D385	Pellet Storage Bin
	064D386	Pellet Storage Bin
	064G104D	Feeder
	064EX104	Extruder 104
	064EX105	Extruder 105
	064S104A	Pellet Dryer
	064S105A	Pellet Dryer
	F064BS1	Bagging System
	064LR1	North Bulk Car Loading
	064LR2	South Bulk Car Loading

064LT1 North Bulk Truck Loading

Routine MSS Uncontrolled Maintenance, Start-up, and Shutdown Emissions  
allowed  
under Special Condition No. 3.

Atmospheric MSS Uncontrolled Maintenance, Start-up, and  
Shutdown Emissions allowed  
under Special Condition No. 4.

Dated December 16, 2008