

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19355

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 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
S-105	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-106	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-107	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-108	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-109	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-110	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-111	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-112	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-113	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-114	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-115	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-116	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-117	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-118	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-119	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-120	Corn Steeping Tank (a)	SO ₂	<0.01	<0.01
S-127	Starch Reslurry Bag	PM ₁₀	0.06	0.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
	Filter (b)			
S-128	Starch Dryer Vent (b)	VOC	0.05	0.22
		NO _x	2.58	11.30
		SO ₂	0.01	0.04
		PM ₁₀	7.20	31.54
		CO	0.64	2.80
S-129	No. 1 Gluten Concentrator <0.01 Vent (a)		SO ₂	<0.01
S-130	Middlings Concentrator Vent (a)	SO ₂	<0.01	<0.01
S-131	Defoaming Tank Vent (a)	SO ₂	<0.01	<0.01
S-132	No. 1 CAB Filtrate Vent (a) <0.01		SO ₂	<0.01
S-133	No. 2 CAB Filtrate Vent (a) <0.01		SO ₂	<0.01
S-134	Incubation Tank Vent (a) 0.05		SO ₂	0.01
S-135	Incubation Tank Vent (a) 0.05		SO ₂	0.01
S-136	Incubation Tank Vent (a) 0.05		SO ₂	0.01
S-137	Incubation Tank Vent (a)		SO ₂	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
	0.05			
S-138	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-139	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-140	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-141	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-142	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-143	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-144	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-145	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-146	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			
S-147	Mill Building Vent Fan (a)	SO ₂		0.12
	0.49			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
S-148	Mill Building Vent Fan (a)		SO ₂	0.12
	0.49			
S-149	Mill Building Vent Fan (a)		SO ₂	0.12
	0.49			
S-150	Mill Building Vent Fan (a)		SO ₂	0.12
	0.49			
S-151	Mill Building Vent Fan (a)		SO ₂	0.12
	0.49			
S-152	New Corn Steeping Tank (a)		SO ₂	<0.01
0.01				
S-153	New Corn Steeping Tank (a)		SO ₂	<0.01
0.01				
S-154	New Corn Steeping Tank (a)		SO ₂	<0.01
0.01				
S-155	New Corn Steeping Tank (a)		SO ₂	<0.01
0.01				
S-156	New Corn Steeping Tank (a)		SO ₂	<0.01
0.01				
S-157	New Corn Steeping Tank (a)		SO ₂	<0.01
0.01				
S-158	Germ Dryer Stack (a)	PM ₁₀	0.46	1.95

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			lb/hr	TPY
S-159	Germ Dryer Stack (a)	PM ₁₀	0.93	3.90
S-160	Germ Air Dust Collector (a)		PM ₁₀	0.90
	3.78			
S-161	Gluten Recycle Filter (a)		PM ₁₀	<0.01
	<0.01			
S-162	Mill Building Vent Fan (a)		SO ₂	0.12
	0.49			
S-163	Mill Building Vent Fan (a)		SO ₂	0.12
	0.49			
S-164	Gluten Dryer Scrubber (a)		VOC	0.12
	0.52			
		NO _x	3.08	13.00
		SO ₂	5.08	21.32
		PM ₁₀	11.47	48.17
		CO	0.72	3.00
S-165	Gluten Transfer Bag Filter (a)		PM ₁₀	0.56
	2.35			
S-201	Starch Storage Bin (b)	PM ₁₀	0.06	0.26
S-202	Starch Storage Bin (b)	PM ₁₀	0.06	0.26
S-203	Starch Storage Bin (b)	PM ₁₀	0.06	0.26
S-204	Starch Storage Bin (b)	PM ₁₀	0.06	0.26
S-205	Starch Packing Bin (b)	PM ₁₀	0.06	0.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	<u>TPY</u>
S-206	Starch Packing Dust Collector (b)	PM ₁₀	0.06	0.26
S-301	Diatomaceous Earth Bin (a) <0.01	PM ₁₀		<0.01
S-302	Diatomaceous Earth Bin (a) <0.01	PM ₁₀		<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
S-304	Carbon Regeneration Furnace (a)	VOC	0.03	0.14
		NO _x	4.50	18.94
		SO ₂	0.02	0.08
		PM ₁₀	0.70	2.94
		CO	0.22	0.92
S-307	Mg Sulfite Tank Scrubber (a) <0.01		SO ₂	<0.01
S-308	HCl Scrubber (b)	HCl	0.11	0.05
S-309	NH ₃ Scrubber (b)	NH ₃	0.06	0.04
S-310	Lime Silo Filter (e)	PM ₁₀	0.06	<0.01
S-402	N. Cooling Tower (a)	VOC	<0.01	<0.01
S-403	Refinery Cooling Tower (a) <0.01		VOC	<0.01
S-404	SO ₂ Scrubber (a)	SO ₂	0.03	0.12
S-405	No. 2 F.O. Tank (a)	VOC	<0.01	<0.01
S-406	Murray Boiler (a) (c)	VOC	0.16	0.69
		NO _x	11.55	48.53
		SO ₂	14.23	59.80
		PM ₁₀	2.77	11.65
		CO	2.89	12.13
S-407	B and W Boiler (a) (c)	VOC	0.27	1.15
		NO _x	19.26	80.89
		SO ₂	23.73	99.66
		PM ₁₀	4.62	19.42
		CO	4.81	20.22

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			lb/hr	<u>TPY</u>

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
S-408	New Boiler (a) (d)	VOC	0.27	1.15
		NO _x	10.53	44.24
		SO ₂	0.06	0.23
		PM ₁₀	0.28	1.18
		CO	3.22	13.54
S-409	New Refinery Cooling Tower (a)	VOC	<0.01	<0.01
S-410	Aeration Tower (a)	VOC	<0.01	<0.01
F-101	Bran By-Product Handling (a)	PM ₁₀	<0.01	<0.01
F-201	Starch Loadout (b)	PM ₁₀	1.37	6.00
F-301	Carbon Regeneration Furnace Area (a)	PM ₁₀	0.05	0.21
F-302	Spent Diatomaceous Earth 1.05 Loading (a)		PM ₁₀	0.25
F-401	Fuel Oil Handling (a)	VOC	0.15	0.64
F-402	Propane Storage Area (a) 2.39		VOC	0.57

(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 General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in

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diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

CO - carbon monoxide

NH₃ - ammonia

HCl - hydrogen chloride

- (a) Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 50 or Hrs/year 8,400

- (b) Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

- (c) Emissions based on firing boiler on No. 2 fuel oil as a backup fuel for a maximum of 200 days per year. Sweet natural gas, as defined in the general rules adopted by the Texas Natural Resource Conservation Commission (TNRCC), shall be the primary fuel for the boiler.

- (d) Fuel for this boiler shall be sweet natural gas as defined in the general rules adopted by the TNRCC.

- (e) Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 142

Dated _____