

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8221A

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)	Emission Rates	
			lb/hr	TPY
2	Bean Trash Receiving Cyclone Stack	PM PM ₁₀ 1.77	2.09 0.09	0.10
5	Bean Cleaner Baghouse Stack	PM/PM ₁₀	0.17	<0.01
7A	T-820s Splits Transfer out Baghouse Stack	PM/PM ₁₀	0.03	0.04
7B	T-820s Splits Transfer out Baghouse Stack	PM/PM ₁₀	0.03	0.04
8	T-820s Splits Transfer out Baghouse Stack	PM/PM ₁₀	0.16	0.28
9	Splits Railcar Unloading Baghouse Stack	PM/PM ₁₀	0.03	0.06
10	Bean Trash Screw Baghouse Stack	PM/PM ₁₀	0.28	0.01
12	Meal Storage Tank Baghouse Stack		PM/PM ₁₀ 0.51	0.34
13	Meal Storage Tank Baghouse Stack	PM/PM ₁₀	0.34	0.51
14	Meal Bulk Loading Baghouse Stack		PM/PM ₁₀ 1.11	1.48
21	Bean Transfer Baghouse Stack	PM/PM ₁₀	0.03	0.07
22	TK 1-4 Baghouse Stack	PM/PM ₁₀	0.03	0.06

23	TPS Bean Cleaner Baghouse Stack	PM/PM ₁₀	0.07
	0.04		

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
24	TK 1-4 Tunnel Baghouse Stack	PM/PM ₁₀	0.10	0.23
25	TK 13-14 Outlet Baghouse Stack	PM/PM ₁₀	0.13	0.20
29	Purified Splits PR Dust Collector	PM/PM ₁₀	0.03	0.13
30	Pre-Secondary Sifter Dust Collector	PM/PM ₁₀	0.28	1.15
31	Rotary Furnace Cyclone Stack	PM	0.16	0.28
		PM ₁₀	0.14	0.25
		NO _x	0.65	1.14
		CO	0.55	0.96
		VOC	0.04	0.06
		SO ₂	0.09	0.17
36	Secondary Screw Dust Collector	PM/PM ₁₀	0.05	0.20
37	Product Bagging Dust Collector	PM/PM ₁₀	0.17	0.04
38	Dump Back Dust Collector	PM/PM ₁₀	0.09	0.07
39	Pre-Primary Sifter PR Cyclone	PM	0.90	3.04
		PM ₁₀	0.77	2.58
47	TK 809 A, B Foersberg Dump Scale Baghouse Stack	PM/PM ₁₀	0.09	0.18
49A	TK No. 811 A Baghouse Stack	PM/PM ₁₀	0.07	0.07
49B	TK No. 811 B Baghouse Stack	PM/PM ₁₀	0.07	0.07
54	TK No. 809A Baghouse Stack	PM/PM ₁₀	0.03	0.07

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
55	TK No. 809B Baghouse Stack	PM/PM ₁₀	0.03	0.07
56	TK No. 801A Baghouse Stack	PM/PM ₁₀	0.03	0.07
57	TK No. 801B Baghouse Stack	PM/PM ₁₀	0.03	0.07
58	TK No. 801X Baghouse Stack	PM/PM ₁₀	0.03	0.07
59	TK No 801Y Baghouse Stack	PM/PM ₁₀	0.03	0.07
60	M2 7E Blowers (Food Grade) Cyclone		PM	0.95
		3.94		
	Stack [Furnace]	PM ₁₀	0.81	3.38
		NO _x 0.76	3.35	
		CO 0.64	2.81	
		VOC 0.04	0.18	
		SO ₂ 0.11	0.49	
61	M2 Secondary Sifter Baghouse Stack	PM/PM ₁₀		0.44
		1.84		
63A	M2 Hydration Conveyor Hood	VOC (Acetic Acid)	0.15	0.61
64	Stnd. Guar Splits Surge Tank Baghouse Stack	PM/PM ₁₀	0.04	0.06
66	Stnd. Guar M-2 Splits H.C. Receiving Baghouse Stack	PM/PM ₁₀		<0.01
		0.03		
67	M-2 Fin. Product Baghouse Stack	PM/PM ₁₀	0.36	1.17
70	901, 902, 903 Splits HB Baghouse Stack	PM/PM ₁₀	0.15	0.66
72	Scrubber Vent	VOC (4)	-	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
87	903 Flame Arrestor Service 902 and 903 Reactor Vents	VOC (4)	-	-
88	902 Flame Arrestor on Recycle Conveyor Reactor Vents	VOC (4) -	-	-
89	901 Flame Arrestor on Recycle Conveyor Reactor Vents	VOC (4)	-	-
92	Reactors Vac Jet Blowdown Pot	VOC (4)	-	-
PP-3	Pilot Plant VOC Vent	VOC (4)	-	-
	Total Reactor Operations	VOC (4)	5.33	5.07
80	Splits Receiving Before 902s, 903s Baghouse Stack	PM/PM ₁₀	0.05	0.14
81	Splits Rec Before M-1, M-2 Baghouse Stack	PM/PM ₁₀	0.09	0.14
82	Splits Receiver for Milling 1 and 2 Baghouse Stack	PM/PM ₁₀	0.09	0.14
124	Mill 1 Product Receiving (Presifted) Baghouse Stack [Furnace]	PM/PM ₁₀	0.58	0.77
			NO _x	0.76
		3.35		
		CO 0.64	2.81	
		VOC 0.04	0.18	
		SO ₂ 0.11	0.49	
127	Mill 1 Product Receiving (Sifted) Baghouse Stack	PM/PM ₁₀	0.06	0.06
128	Mill 1 Hydration Conveyor	VOC (Acetic Acid)	0.48	1.94

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
	Fume Hood			
131	Mill 4 A Product Receiving Cyclone Stack [Furnace]	PM	1.58	6.58
		PM ₁₀	1.35	5.61
		NO _x	0.41	1.79
		CO	0.34	1.50
		VOC	0.02	0.10
		SO ₂	0.06	0.26
132	Mill 4 B Product Receiving Cyclone Stack [Furnace]	PM	1.87	7.78
		PM ₁₀	1.60	6.63
		NO _x	0.41	1.79
		CO	0.34	1.50
		VOC	0.02	0.10
		SO ₂	0.06	0.26
133	Mill 4 D Product Receiving Cyclone Stack [Furnace]	PM	1.30	5.39
		PM ₁₀	1.11	4.60
		NO _x	0.41	1.79
		CO	0.34	1.50
		VOC	0.02	0.10
		SO ₂	0.06	0.26
134	Mill 4 C Product Receiving Cyclone Stack [Furnace]	PM	1.58	6.58
		PM ₁₀	1.35	5.61
		NO _x	0.41	1.79
		CO	0.34	1.50
		VOC	0.02	0.10
		SO ₂	0.06	0.26
135	Mill 4 Side A Sifter Baghouse Stack	PM/PM ₁₀	0.05	0.21
136	Mill 4 Side B Sifter Baghouse Stack	PM/PM ₁₀	0.05	0.21

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
137	Mill 4 Side A Product Receiving Baghouse Stack	PM/PM ₁₀	0.02	0.09
138	Mill 4 Side B Product Receiving Baghouse Stack	PM/PM ₁₀	0.02	0.09
139A	Mill 4 Product Receiving Cyclone Stack	PM	0.08	0.34
		PM ₁₀	0.07	0.29
139B	Mill 4 Product Receiving Cyclone Stack	PM	0.08	0.34
		PM ₁₀	0.07	0.29
140	Old Bulk 10K Headbin Baghouse Stack (Food Grade)	PM/PM ₁₀	0.18	0.18
141	Food Grade 40K Storage Tank Baghouse Stack	PM/PM ₁₀	0.18	0.18
143	Old Bulk 20K Blender Baghouse Stack	PM/PM ₁₀	0.18	0.18
145	89 Blender Baghouse Stack	PM/PM ₁₀	0.77	0.39
146A	Old Bulk Bagging Station for 20K Blender Baghouse Stack	0.28 PM/PM ₁₀		0.28
146B	Old Bulk Bagging Station for 20K Blender Baghouse Stack	PM/PM ₁₀	0.28	0.28
152	Old Bulk Dump Back Station Baghouse Stack	PM/PM ₁₀	0.26	0.13
153	Food Grade 40K Storage Tank Baghouse Stack	PM/PM ₁₀	0.18	0.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
154	C Section Blender Baghouse Stack	PM/PM ₁₀	0.28	0.28
155	Food Grade 10K Blender Baghouse Stack	PM/PM ₁₀	0.18	0.22
157A	Dry Enzyme Dump Station Baghouse Stack	PM/PM ₁₀	0.10	0.05
157B	Dry Enzyme Dump Station Baghouse Stack	PM/PM ₁₀	0.07	0.03
158	Food Grade Dump Back Station Baghouse Stack	PM/PM ₁₀ 0.10		0.10
160	Bulk 1 10K Weighbin Baghouse Stack	PM/PM ₁₀ 2.64		0.66
161	Bulk 1 10K Blender Baghouse Stack	PM/PM ₁₀ 0.37		0.08
		VOC (Acetic Acid)	30.00	1.74
162	Bulk 1 20K Blender Baghouse Stack	PM/PM ₁₀	0.07	0.31
		VOC (Acetic Acid)	15.00	1.36
164	Bulk 1 Offline Bagging Baghouse Stack	PM/PM ₁₀	0.24	0.54
165	Bulk 1 Tank 1 Baghouse Stack	PM/PM ₁₀	0.12	0.06
166	Bulk 1 Tank 2 Baghouse Stack	PM/PM ₁₀	0.12	0.06
167	Bulk 1 Tank 3 Baghouse Stack	PM/PM ₁₀	0.12	0.06
168	Bulk 1 Tank 4 Baghouse Stack	PM/PM ₁₀	0.12	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
169	Bulk 1 Tank 5 Baghouse Stack	PM/PM ₁₀	0.12	0.06
170	Bulk 1 Tank 6 Baghouse Stack	PM/PM ₁₀	0.12	0.06
171	Bulk 1 Tank 7 Baghouse Stack	PM/PM ₁₀	0.12	0.06
172	Bulk 1 Tank 8 Baghouse Stack	PM/PM ₁₀	0.12	0.06
173	Bulk 1 Dump Back Station Baghouse Stack	PM/PM ₁₀	0.08	0.32
176	Bulk 1 Vacuum System Baghouse Stack	PM/PM ₁₀	0.03	0.10
180A	Bulk 2 10K Weighbin Baghouse Stack	PM/PM ₁₀	0.05	0.19
180B	Bulk 2 10K Weighbin Baghouse Stack	PM/PM ₁₀	0.05	0.19
181	Bulk 2 10K Blender Baghouse Stack	PM/PM ₁₀ VOC (Acetic Acid)	0.07 15.00	0.31 2.73
182	Bulk 2 Vacuum System Baghouse Stack	PM/PM ₁₀	0.01	0.06
183	Bulk 3 Vacuum System Baghouse Stack	PM/PM ₁₀	0.01	0.06
184	Bulk 2 Offline Bagging East Baghouse Stack	PM/PM ₁₀	0.24	0.97
186	Bulk 2 Offline Bagging East	PM/PM ₁₀	0.43	1.75

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
	Baghouse Stack			
188	Bulk 2 Dump Back Station Baghouse Stack	PM/PM ₁₀	0.22	0.22
189	Bulk 2 Tank 16 Baghouse Stack	PM/PM ₁₀	0.24	0.12
190	Bulk 2 Tank 15 Baghouse Stack	PM/PM ₁₀	0.24	0.12
191	Bulk 2 Tank 14 Baghouse Stack	PM/PM ₁₀	0.24	0.12
192	Bulk 2 Tank 13 Baghouse Stack	PM/PM ₁₀	0.24	0.12
193	Bulk 2 Tank 12 Baghouse Stack	PM/PM ₁₀	0.24	0.12
194	Bulk 2 Tank 11 Baghouse Stack	PM/PM ₁₀	0.24	0.12
195	Bulk 2 Tank 10 Baghouse Stack	PM/PM ₁₀	0.24	0.12
196	Bulk 2 Tank 9 Baghouse Stack	PM/PM ₁₀	0.24	0.12
202	Quaternary Amine Storage Tank	VOC (Quaternary Amine)	0.07	<0.01
203	Boiler No. 3 Stack	PM/PM ₁₀	0.14	0.61
		NO _x	1.83	8.01
		CO	1.54	6.73
		VOC	0.10	0.44
		SO ₂	0.27	1.16
204	Boiler No. 2 Stack	PM/PM ₁₀	0.14	0.61
		NO _x	1.83	8.01
		CO	1.54	6.73
		VOC	0.10	0.44
		SO ₂	0.27	1.16

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
206	Propane Tank	VOC	0.02	0.09
210	Brine Maker Operation	PM/PM ₁₀	1.00	0.08
220	Mill 5 A Product Receiving Cyclone Stack	PM	0.05	0.19
		PM ₁₀	0.04	0.16
221	Mill 5 B Product Receiving Cyclone Stack	PM	0.05	0.19
		PM ₁₀	0.04	0.16
222	Mill 5 A Product Receiving Cyclone Stack [Furnace]	PM	1.31	5.43
		PM ₁₀	1.12	4.64
		NO _x	0.49	2.15
		CO	0.41	1.81
		VOC	0.03	0.12
		SO ₂	0.07	0.31
223	Mill 5 B Product Receiving Cyclone Stack [Furnace]	PM	1.31	5.43
		PM ₁₀	1.12	4.64
		NO _x	0.49	2.15
		CO	0.41	1.81
		VOC	0.03	0.12
		SO ₂	0.07	0.31
224	Mill 5 A Product Receiving Cyclone Stack [Furnace]	PM	1.31	5.43
		PM ₁₀	1.12	4.64
		NO _x	0.49	2.15
		CO	0.41	1.81
		VOC	0.03	0.12
		SO ₂	0.07	0.31
225	Mill 5 B Product Receiving Cyclone Stack [Furnace]	PM	1.31	5.43
		PM ₁₀	1.12	4.64
		NO _x	0.49	2.15
		CO	0.41	1.81
		VOC	0.03	0.12
		SO ₂	0.07	0.31

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
226	Mill 5 A Sect Recycle Collector Baghouse Stack	PM/PM ₁₀	0.04	0.16
227	Mill 5 B Sect Recycle Collector Baghouse Stack	PM/PM ₁₀	0.04	0.16
228	Mill 5 A Sect Product Receiver Baghouse Stack	PM/PM ₁₀	0.02	0.06
229	Mill 5 B Sect Product Receiver Baghouse Stack	PM/PM ₁₀	0.02	0.06
230	Mill 5 A Regrind Product Collector Baghouse Stack	PM/PM ₁₀	0.29	0.69
240	Bulk 3 20K Headbin Baghouse Stack	PM/PM ₁₀ 1.57		0.39
241	Bulk 3 Bagging Station Baghouse Stack	PM/PM ₁₀	0.24	0.97
242	Bulk 3 Bagging Station Baghouse Stack	PM/PM ₁₀	1.47	5.94
243	Bulk 3 Air Mix Blender Baghouse Stack	PM/PM ₁₀	0.38	1.52
244	Bulk 3 Dry Chem Additive Station Baghouse Stack	PM/PM ₁₀	0.47	0.83
245	Granulated Guar Process Baghouse Stack	PM/PM ₁₀	0.26	0.13
247	LGC Baghouse Stack	PM/PM ₁₀	0.05	0.03
250	LGC Baghouse Stack	PM/PM ₁₀	0.03	0.03
251	LGC Unit for HPG Baghouse Stack	PM/PM ₁₀	0.05	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
252	LGC Unit for HPG Baghouse Stack	PM/PM ₁₀	0.05	0.02
254	Cooling Tower C Stack	PM/PM ₁₀	0.21	0.90
255	Cooling Tower D Stack	PM/PM ₁₀	0.17	0.75
PP-1	Pilot Plant Primary Cyclone Stack	PM	0.04	0.09
		PM ₁₀	0.04	0.07
PP-2	Pilot Plant Secondary Cyclone Stack	PM	0.04	0.09
		PM ₁₀	0.04	0.07
260	Milling 4 Vacuum System Baghouse Stack	PM/PM ₁₀	0.03	0.14
261	Milling 5 Vacuum System Baghouse Stack	PM/PM ₁₀	0.02	0.08
FV-101	Prox Equipment Leak Fugitives(5)	VOC (4)	1.12	4.86

- (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) PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
SO₂ - sulfur dioxide
NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) All VOC emissions from these sources are Propylene Oxide which is a hazardous air pollutant.
- (5) Fugitive emissions are an estimate only.

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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>
			Dated <u>August 29, 2007</u>	