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.

Emission	Source	Air Contamina		Air Conta		ant	nt <u>Emiss</u> i		sion Rates	
Point No. (1)	Name (2)		Name (3)		lb/hr	7	ΓΡΥ			
2	Bean Trash Receiving Cyclone Sta		PM 1.77		2.09 0.09	0	.10			
5	Bean Cleaner Baghouse Stack (6)		PM/PM ₁₀		0.17	<0	.01			
7A	T-820s Splits Transfer out Baghou Stack (6)	se	PM/PM ₁₀		0.03	0	.04			
7B	T-820s Splits Transfer out Baghou Stack (6)	se	PM/PM ₁₀		0.03	0	.04			
8	T-820s Splits Transfer out Baghou Stack (6)	se	PM/PM ₁₀		0.16	0	.28			
9	Splits Railcar Unloading Baghouse Stack (6)		PM/PM ₁₀		0.03	0	.06			
10	Bean Trash Screw Baghouse Stac	٠,) 0.01	PM/PM	1 ₁₀	0	.28			
12	Meal Storage Tank Baghouse Sta	ck (6	5)		0.34	PM/PM ₁₀	.51			
13	Meal Storage Tank Baghouse Sta	•	6) 0.51	PM/PM	1 ₁₀	0	.34			
14	Meal Bulk Loading Baghouse Stac	٠,) 1.48		1.11	PM/PM ₁₀)			
21	Bean Transfer Baghouse Stack (6))	PM/PM ₁₀		0.03	0	.07			

22	TK 1-4 Baghouse Stack (6)	PM/PI	M_{10}	0.03	0.06
23 Permit Number 8221A Page 2	TPS Bean Cleaner Baghouse Stack (6	5)	PM/PM ₁₀	0.07	0.04

Emission	Source	Air Contamina	ant	Emission	Rates_
Point No. (1)	Name (2)	Name (3)		lb/hr	TPY
24	TK 1-4 Tunnel Baghouse Stack (6)	PM/PM ₁₀		0.10	0.23
25	TK 13-14 Outlet Baghouse Stack (6) PM/PM ₁₀	(0.13	0.20
29	Purified Splits PR Dust Collector (6	6) PM/PM ₁₀	(0.03	0.13
30	Pre-Secondary Sifter Dust Collecto 1.15	or (6)	PM/PM ₁	10	0.28
31	Rotary Furnace Cyclone Stack PM ₁ NOx CO VOC SO ₂	0.65 0.55 0.04	<u>:</u>	0.16 0.25 1.14 0.96 0.06 0.17	0.28
36	Secondary Screw Dust Collector (6	6) PM/PM ₁₀	(0.05	0.20
37	Product Bagging Dust Collector (6)) PM/PM ₁₀	(0.17	0.04
38	Dump Back Dust Collector (6)	PM/PM ₁₀	(0.09	0.07
39	Pre-Primary Sifter PR Cyclone	PM PM ₁₀		0.90 0.77	3.04 2.58
47	TK 809 A, B Foersberg Dump Scale Baghouse Stack (6)	PM/PM ₁₀	(0.09	0.18
49A	TK No. 811 A Baghouse Stack (6)	PM/PM ₁₀	(0.07	0.07
49B	TK No. 811 B Baghouse Stack (6)	PM/PM ₁₀	(0.07	0.07

Emission	Source	Air	Contaminant	Emission	n Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
54	TK No. 809A Baghouse Stack	(6)	PM/PM ₁₀	0.03	0.07
55	TK No. 809B Baghouse Stack	(6)	PM/PM ₁₀	0.03	0.07
56	TK No. 801A Baghouse Stack	< (6)	PM/PM ₁₀	0.03	0.07
57	TK No. 801B Baghouse Stack	< (6)	PM/PM ₁₀	0.03	0.07
58	TK No. 801X Baghouse Stack	< (6)	PM/PM ₁₀	0.03	0.07
59	TK No. 801Y Baghouse Stack	< (6)	PM/PM ₁₀	0.03	0.07
60	M2 7E Blowers (Food Grade)	Cyclo	ne 3.94	PM	0.95
	Stack [Furnace]	NO _x CO VOC SO ₂	PM ₁₀ 0.76 0.64 0.04 0.11	0.81 3.35 2.81 0.18 0.49	3.38
61	M2 Secondary Sifter Baghouse Stack (6)		PM/PM ₁₀	0.44	1.84
63A	M2 Hydration Conveyor Hood	I	VOC (Acetic Acid)	0.15	0.61
64	Stnd. Guar Splits Surge Tank Baghouse Stack (6)		PM/PM ₁₀	0.04	0.06
66	Stnd. Guar M-2 Splits H.C. Re	eceivin	g PM/PI 0.03	M_{10}	<0.01
	Baghouse Stack (6)		0.00		
67	M-2 Fin. Product Baghouse Stack (6)		PM/PM ₁₀	0.36	1.17
70	901, 902, 903 Splits HB		PM/PM ₁₀	0.15	0.66

Emission	Source	Air Contaminar	nt <u>Em</u>	ission Rates
Point No. (1)	Name (2)	Name (3)	lb/h	r TPY
	Baghouse Stack (6)			
72	Scrubber Vent	VOC (4)	-	-
87	903 Flame Arrestor Service 902 and 903 Reactor Vents	VOC (4)	-	-
88	902 Flame Arrestor on R	Recycle -	VOC (4)	-
	Conveyor Reactor Vents			
89	901 Flame Arrestor on Recycle Conveyor Reactor Vents	VOC (4)	-	-
92	Reactors Vac Jet Blowdown Po	ot VOC (4)	-	-
PP-3	Pilot Plant VOC Vent Total Reactor Operations	VOC (4) VOC (4)	- 5.33	- 3 5.07
80	Splits Receiving Before 902s, 9 Baghouse Stack (6)	903s PM/PM ₁₀	0.05	0.14
81	Splits Rec Before M-1, M-2 Baghouse Stack (6)	PM/PM ₁₀	0.09	0.14
82	Splits Receiver for Milling 1 and 2 Baghouse Sta	PM/PM ₁₀ ck (6)	0.09	0.14
124	\	,	0.58 NO _x 2.82 0.18 0.49	0.76 L 3
127	Mill 1 Product Receiving (Sifted Baghouse Stack (6)	d) PM/PM ₁₀	0.06	0.06

Emission	Source	Air Contaminant		Emission Rates	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
128	Mill 1 Hydration Conveyor Fume Hood		VOC (Acetic Acid)	0.48	1.94
131	Mill 4 A Product Receiving Cyclone Stack [Furnace]	NO _x CO VOC SO ₂	PM PM ₁₀ 0.41 0.34 0.02 0.06	1.58 1.35 1.79 1.50 0.10 0.26	6.58 5.61
132	Mill 4 B Product Receiving Cyclone Stack [Furnace]	NOx CO VOC SO ₂	PM PM ₁₀ 0.41 0.34 0.02 0.06	1.87 1.60 1.79 1.50 0.10 0.26	7.78 6.63
133	Mill 4 D Product Receiving Cyclone Stack [Furnace]	NO _x CO VOC SO ₂	PM PM ₁₀ 0.41 0.34 0.02 0.06	1.30 1.11 1.79 1.50 0.10 0.26	5.39 4.60
134	Mill 4 C Product Receiving Cyclone Stack [Furnace]	NO _x CO VOC SO ₂	PM PM ₁₀ 0.41 0.34 0.02 0.06	1.58 1.35 1.79 1.50 0.10 0.26	6.58 5.61
135	Mill 4 Side A Sifter Baghouse)	PM/PM ₁₀	0.05	0.21

Emission	Source	Air Contaminant	Emission	<u> </u>
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
	Stack (6)			
136	Mill 4 Side B Sifter Baghouse Stack (6)	PM/PM ₁₀	0.05	0.21
137	Mill 4 Side A Product Receiving Baghouse Stack (6)	PM/PM ₁₀	0.02	0.09
138	Mill 4 Side B Product Receiving Baghouse Stack (6)	PM/PM ₁₀	0.02	0.09
139A	Mill 4 Product Receiving	PM	0.08	0.34
	Cyclone Stack	PM_{10}	0.07	0.29
139B	Mill 4 Product Receiving	PM	0.08	0.34
1002	Cyclone Stack	PM_{10}	0.07	0.29
140	Old Bulk 10K Headbin Baghouse Stack (Food Grade)	PM/PM ₁₀) (6)	0.18	0.18
141	Food Grade 40K Storage Tank Baghouse Stack (6)	PM/PM ₁₀	0.18	0.18
143	Old Bulk 20K Blender Baghouse Stack (6)	e PM/PM ₁₀	0.18	0.18
145	89 Blender Baghouse Stack (6)	PM/PM ₁₀	0.77	0.39
146A	Old Bulk Bagging Station for		//PM ₁₀	0.28
	20K Blender Baghouse Stack (0.28 (6)		
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 (6)	PM/PM ₁₀	0.26	0.13
153	Food Grade 40K Storage Tank Baghouse Stack (6)	PM/PM ₁₀	0.18	0.18

Emission	Source	Air Contaminant	Emission F	<u>Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
154	C Section Blender Baghouse St	ack (6) 0.28	PM/PM ₁₀	0.28
155	Food Grade 10K Blender Baghouse Stack (6)	PM/PM ₁₀	0.18	0.22
157A	Dry Enzyme Dump Station Baghouse Stack (6)	PM/PM ₁₀	0.10	0.05
157B	Dry Enzyme Dump Station Baghouse Stack (6)	PM/PM ₁₀	0.07	0.03
158	Food Grade Dump Back St	ation 0.10	PM/PM ₁₀	0.10
	Baghouse Stack (6)	0.10		
160	Bulk 1 10K Weighbin Bag	house Stack 2.64	PM/PM ₁₀	0.66
	(6)			
161	Bulk 1 10K Blender Bagh	ouse Stack 0.37	PM/PM ₁₀	80.0
	(6)		Acid) 30.00	1.74
162	Bulk 1 20K Blender Baghouse S (6)		0.07 Acid) 15.00	0.31 1.36
164	Bulk 1 Offline Bagging Baghouse Stack (6)	PM/PM ₁₀	0.24	0.54
165	Bulk 1 Tank 1 Baghouse Stack	(6) PM/PM ₁₀	0.12	0.06
166	Bulk 1 Tank 2 Baghouse Stack	(6) PM/PM ₁₀	0.12	0.06
167	Bulk 1 Tank 3 Baghouse Stack	(6) PM/PM ₁₀	0.12	0.06

Emission	Source	Air	· Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
168	Bulk 1 Tank 4 Baghouse Stack	(6)	PM/PM ₁₀	0.12	0.06
169	Bulk 1 Tank 5 Baghouse Stack	(6)	PM/PM ₁₀	0.12	0.06
170	Bulk 1 Tank 6 Baghouse Stack	(6)	PM/PM ₁₀	0.12	0.06
171	Bulk 1 Tank 7 Baghouse Stack	(6)	PM/PM ₁₀	0.12	0.06
172	Bulk 1 Tank 8 Baghouse Stack	(6)	PM/PM ₁₀	0.12	0.06
173	Bulk 1 Dump Back Station Baghouse Stack (6)		PM/PM ₁₀	0.08	0.32
176	Bulk 1 Vacuum System Baghouse Stack (6)		PM/PM ₁₀	0.03	0.10
180A	Bulk 2 10K Weighbin Baghouse Stack (6)		PM/PM ₁₀	0.05	0.19
180B	Bulk 2 10K Weighbin Baghouse Stack (6)		PM/PM ₁₀	0.05	0.19
181	Bulk 2 10K Blender Baghouse Stack (6)		PM/PM ₁₀ VOC (Acetic Acid)	0.07 15.00	0.31 2.73
182	Bulk 2 Vacuum System Baghouse Stack (6)		PM/PM ₁₀	0.01	0.06
183	Bulk 3 Vacuum System Baghouse Stack (6)		PM/PM ₁₀	0.01	0.06
184	Bulk 2 Offline Bagging East Baghouse Stack (6)		PM/PM ₁₀	0.24	0.97
186	Bulk 2 Offline Bagging East Baghouse Stack (6)		PM/PM ₁₀	0.43	1.75

Emission Point No. (1)	Source Name (2)	Air	Contaminant	Emission lb/hr	Rates_ TPY
188	Bulk 2 Dump Back Station Baghouse Stack (6)		PM/PM ₁₀	0.22	0.22
189	Bulk 2 Tank 16 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
190	Bulk 2 Tank 15 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
191	Bulk 2 Tank 14 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
192	Bulk 2 Tank 13 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
193	Bulk 2 Tank 12 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
194	Bulk 2 Tank 11 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
195	Bulk 2 Tank 10 Baghouse Sta	ıck (6)	PM/PM ₁₀	0.24	0.12
196	Bulk 2 Tank 9 Baghouse Stac	k (6)	PM/PM ₁₀	0.24	0.12
202	Quaternary Amine Storage Ta	ank	VOC (Quaternary Amine)	0.07	<0.01
203	Boiler No. 3 Stack	NOx CO VOC SO ₂	PM/PM ₁₀ 1.83 1.54 0.10 0.27	0.14 8.01 6.73 0.44 1.16	0.61
204	Boiler No. 2 Stack	NO _x CO VOC SO ₂	PM/PM ₁₀ 1.83 1.54 0.10 0.27	0.14 8.01 6.73 0.44 1.16	0.61
206	Propane Tank		VOC	0.02	0.09

Emission	Source	Air	Contaminant	Emission R	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
210	Brine Maker Operation		PM/PM ₁₀	1.00	0.08
220	Mill 5 A Product Receiving Cyclone Stack		PM PM ₁₀	0.05 0.04	0.19 0.16
221	Mill 5 B Product Receiving Cyclone Stack		PM PM ₁₀	0.05 0.04	0.19 0.16
222	Mill 5 A Product Receiving Cyclone Stack [Furnace]	NO _x CO VOC SO ₂	PM PM ₁₀ 0.49 0.41 0.03 0.07	1.31 1.12 2.15 1.81 0.12 0.31	5.43 4.64
223	Mill 5 B Product Receiving Cyclone Stack [Furnace]	NOx CO VOC SO ₂	PM PM ₁₀ 0.49 0.41 0.03 0.07	1.31 1.12 2.15 1.81 0.12 0.31	5.43 4.64
224	Mill 5 A Product Receiving Cyclone Stack [Furnace]	NO _x CO VOC SO ₂	PM PM ₁₀ 0.49 0.41 0.03 0.07	1.31 1.12 2.15 1.81 0.12 0.31	5.43 4.64
225	Mill 5 B Product Receiving Cyclone Stack [Furnace]	NOx CO VOC SO ₂	PM PM ₁₀ 0.49 0.41 0.03 0.07	1.31 1.12 2.15 1.81 0.12 0.31	5.43 4.64
226	Mill 5 A Sect Recycle Collect Baghouse Stack (6)	or	PM/PM ₁₀	0.04	0.16

Emission	Source	Air Contaminant	<u>Emis</u>	sion Rates_
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
227	Mill 5 B Sect Recycle Collector Baghouse Stack (6)	PM/PM ₁₀	0.04	0.16
228	Mill 5 A Sect Product Receiver Baghouse Stack (6)	PM/PM ₁₀	0.02	0.06
229	Mill 5 B Sect Product Receiver Baghouse Stack (6)	PM/PM ₁₀	0.02	0.06
230	Mill 5 A Regrind Product Collect Baghouse Stack (6)	tor PM/PM ₁₀	0.29	0.69
240	Bulk 3 20K Headbin Baghouse		PM/PM ₁₀	0.39
	(6)	1.57		
241	Bulk 3 Bagging Station Baghouse Stack (6)	PM/PM ₁₀	0.24	0.97
242	Bulk 3 Bagging Station Baghouse Stack (6)	PM/PM ₁₀	1.47	5.94
243	Bulk 3 Air Mix Blender Baghouse Stack (6)	PM/PM ₁₀	0.38	1.52
244	Bulk 3 Dry Chem Additive Station Baghouse Stack (6)	on PM/PM ₁₀	0.47	0.83
245	Granulated Guar Process Baghouse Stack (6)	PM/PM ₁₀	0.26	0.13
247	LGC Baghouse Stack (6)	PM/PM ₁₀	0.05	0.03
250	LGC Baghouse Stack (6)	PM/PM ₁₀	0.03	0.03
251	LGC Unit for HPG Baghouse St	ack (6) 0.02	PM/PM ₁₀	0.05
252	LGC Unit for HPG Baghouse St	ack (6) 0.02	PM/PM ₁₀	0.05

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 PM ₁₀	0.04 0.04	0.09 0.07
PP-2	Pilot Plant Secondary Cyclone Stack	PM PM ₁₀	0.04 0.04	0.09 0.07
260	Milling 4 Vacuum System Baghouse Stack (6)	PM/PM ₁₀	0.03	0.14
261	Milling 5 Vacuum System Baghouse Stack (6)	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 PM_{10}
 - PM_{10} 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.
- (6) Bag or pleated filter replacement is an authorized Maintenance, Start-up, and Shutdown (MSS) activity.

MSS emissions are de minimis.

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Dated <u>April 30, 2008</u>