#### 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, 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

<b>Emission Point No.</b>	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
(1)			lbs/hour	TPY
2	Bean Trash Receiving	PM	2.09	0.10
	Cyclone Stack	PM <sub>10</sub>	1.77	0.09
5	Bean Cleaner	PM	0.17	< 0.01
	Baghouse Stack (6)	PM <sub>10</sub>	0.17	< 0.01
7A	T-820s Splits Transfer	PM	0.03	0.04
	Out Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.04
7B	T-820s Splits Transfer	PM	0.03	0.04
	Out Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.04
8	T-820s Splits Transfer	PM	0.16	0.28
	Out Baghouse Stack (6)	PM <sub>10</sub>	0.16	0.28
9	Splits Railcar	PM	0.03	0.06
	Unloading Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.06
10	Bean Trash Screw	PM	0.28	0.01
	Baghouse Stack (6)	PM <sub>10</sub>	0.28	0.01
12	Meal Storage Tank	PM	0.34	0.51
	Baghouse Stack (6)	PM <sub>10</sub>	0.34	0.51
13	Meal Storage Tanks	PM	0.34	0.51
	Baghouse Stack (6)	PM <sub>10</sub>	0.34	0.51
14	Meal Bulk Loading	PM	1.48	1.11
	Baghouse Stack (6)	PM <sub>10</sub>	1.48	1.11
21	Bean Transfer	PM	0.03	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
22	TK 1-4 Baghouse	PM	0.03	0.06

	Stack (6)	PM <sub>10</sub>	0.03	0.06
23	TPS Bean Cleaner	PM	0.07	0.04
	Baghouse Stack (6)	PM <sub>10</sub>	0.07	0.04
24	TK 1-4 Tunnel	PM	0.10	0.23
	Baghouse Stack (6)	PM <sub>10</sub>	0.10	0.23
25	TK 13-14 Outlet	PM	0.13	0.20
	Baghouse Stack (6)	PM <sub>10</sub>	0.13	0.20
29	Purified Splits PR Dust	PM	0.03	0.13
	Collector (6)	PM <sub>10</sub>	0.03	0.13
30	Pre-Secondary Sifter	PM	0.28	1.15
	Dust Collector (6)	PM <sub>10</sub>	0.28	1.15
31	Rotary Furnace Cyclone Stack	PM	0.16	0.28
		PM <sub>10</sub>	0.14	0.25
		SO <sub>2</sub>	0.09	0.17
		NO <sub>x</sub>	0.65	1.14
		СО	0.55	0.96
		VOC	0.04	0.06
36	Secondary Screw	PM	0.05	0.20
	Dust Collector (6)	PM <sub>10</sub>	0.05	0.20
37	Product Bagging Dust	PM	0.17	0.04
	Collector (6)	PM <sub>10</sub>	0.17	0.04
38	Dump Back Dust	PM	0.09	0.07
	Collector (6)	PM <sub>10</sub>	0.09	0.07
39	Pre-Primary Sifter PR	PM	0.90	3.04
	Cyclone (6)	PM <sub>10</sub>	0.77	2.58
47	TK 809A, B Foersberg	PM	0.09	0.18
	Dump Scale Baghouse Stack (6)	PM <sub>10</sub>	0.09	0.18
49A	TK No. 811A	PM	0.07	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.07	0.07
49B	TK No. 811B	PM	0.07	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.07	0.07
54	TK No. 809A	PM	0.03	0.07

	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
55	TK No. 809B	РМ	0.03	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
56	TK No. 801A	PM	0.03	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
57	TK No. 801B	PM	0.03	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
58	TK No. 801X	РМ	0.03	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
59	TK No. 801Y	PM	0.03	0.07
	Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.07
60	M2 7E Blowers (Food	PM	0.95	3.94
	Grade) Cyclone Stack [Furnace]	PM <sub>10</sub>	0.81	3.38
	[rumaco]	SO <sub>2</sub>	0.11	0.49
		NO <sub>x</sub>	0.76	3.35
		CO	0.64	2.81
		VOC	0.04	0.18
61	M2 Secondary Sifter	PM	0.44	1.84
	Baghouse Stack (6)	PM <sub>10</sub>	0.44	1.84
63A	M2 Hydration Conveyor Hood	VOC (Acetic Acid)	0.15	0.61
64	Stnd. Guar Splits	PM	0.04	0.06
	Surge Tank Baghouse Stack (6)	PM <sub>10</sub>	0.04	0.06
67	M-2 Fin. Product	PM	0.36	1.17
	Baghouse Stack (6)	PM <sub>10</sub>	0.36	1.17
70	901, 902, 903 Splits	PM	0.15	0.66
	HB Baghouse Stack (6)	PM <sub>10</sub>	0.15	0.66
72	Scrubber Vent	VOC (4)		
87	903 Flame Arrestor Service 902 and 903 Reactor Vents	VOC (4)		
88	902 Flame Arrestor on Recycle Conveyor	VOC (4)		

	Reactor Vents			
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	РМ	0.05	0.14
	Before 902s and 903s Baghouse Stack (6)	PM <sub>10</sub>	0.05	0.14
81	Splits Rec Before M-1	PM	0.09	0.14
	and M-2 Baghouse Stack (6)	PM <sub>10</sub>	0.09	0.14
82	Splits Receiver for	PM	0.09	0.14
	Milling 1 and 2 Baghouse Stack (6)	PM <sub>10</sub>	0.09	0.14
124	Mill1 Product	PM	0.58	0.77
	Receiving (Presifted) Baghouse Stack	PM <sub>10</sub>	0.58	0.77
	[Furnace] (6)	SO <sub>2</sub>	0.11	0.49
		NO <sub>x</sub>	0.76	3.35
		СО	0.64	2.81
		VOC	0.04	0.18
127	Mill 1 Product	PM	0.06	0.06
	Receiving (Sifted) Baghouse Stack (6)	PM <sub>10</sub>	0.06	0.06
128	Mill 1 Hydration Conveyor Fume Hood	VOC (Acetic Acid)	0.48	1.94
131	Mill 4A Product	PM	1.59	6.59
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.36	5.62
	Ctack [r amaco]	SO <sub>2</sub>	0.06	0.26
		NO <sub>x</sub>	0.41	1.79
		СО	0.34	1.50
		VOC	0.04	0.11
132	Mill 4B Product	РМ	1.88	7.79

	Receiving Cyclone	PM <sub>10</sub>	1.61	6.64
	Stack [Furnace]	SO <sub>2</sub>	0.06	0.26
		NO <sub>x</sub>	0.41	1.79
		СО	0.34	1.50
		VOC	0.04	0.11
133	Mill 4D Product	PM	1.31	5.40
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.12	4.61
	Stack [Famace]	SO <sub>2</sub>	0.06	0.26
		NO <sub>x</sub>	0.41	1.79
		СО	0.34	1.50
		VOC	0.04	0.11
134	Mill 4C Product	РМ	1.59	6.59
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.36	5.62
	Statist [1 amage]	SO <sub>2</sub>	0.06	0.26
		NO <sub>x</sub>	0.41	1.79
		СО	0.34	1.50
		VOC	0.04	0.11
135	Mill 4 Side A Sifter	РМ	0.05	0.21
	Baghouse Stack (6)	PM <sub>10</sub>	0.05	0.21
136	Mill 4 Side B Sifter	РМ	0.05	0.21
	Baghouse Stack (6)	PM <sub>10</sub>	0.05	0.21
137	Mill 4 Side A Product	РМ	0.02	0.09
	Receiving Baghouse Stack (6)	PM <sub>10</sub>	0.02	0.09
138	Mill 4 Side B Product	PM	0.02	0.09
	Receiving Baghouse Stack (6)	PM <sub>10</sub>	0.02	0.09
139A	Mill 4 Product	PM	0.08	0.34
	Receiving Cyclone Stack	PM <sub>10</sub>	0.07	0.29
139B	Mill 4 Product	PM	0.08	0.34
	Receiving Cyclone Stack	PM <sub>10</sub>	0.07	0.29
140	Old Bulk 10K Headbin	PM	0.18	0.18
	Baghouse Stack (Food Grade) (6)	PM <sub>10</sub>	0.18	0.18

141	Food Grade 40K	РМ	0.18	0.18
_	Storage Tank Baghouse Stack (6)	PM <sub>10</sub>	0.18	0.18
143	Old Bulk 20K Blender	PM	0.18	0.18
140	Baghouse Stack (6)	PM <sub>10</sub>	0.18	0.18
145	89 Blender Baghouse	PM	0.77	0.39
110	Stack (6)	PM <sub>10</sub>	0.77	0.39
146A	Old Bulk Bagging	PM	0.28	0.28
	Station 20K Blender Baghouse Stack (6)	PM <sub>10</sub>	0.28	0.28
146B	Old Bulk Bagging	PM	0.28	0.28
	Station 20K Blender Baghouse Stack (6)	PM <sub>10</sub>	0.28	0.28
152	Old Bulk Dump Back	PM	0.26	0.13
	Station Baghouse Stack (6)	PM <sub>10</sub>	0.26	0.13
153	Food Grade 40K	РМ	0.18	0.18
	Storage Tank Baghouse Stack (6)	PM <sub>10</sub>	0.18	0.18
154	C Section Blender	РМ	0.28	0.28
	Baghouse Stack (6)	PM <sub>10</sub>	0.28	0.28
155	Food Grade 10K	РМ	0.18	0.22
	Blender Baghouse Stack (6)	PM <sub>10</sub>	0.18	0.22
157A	Dry Enzyme Dump	РМ	0.10	0.05
	Station Baghouse Stack (6)	PM <sub>10</sub>	0.10	0.05
157B	Dry Enzyme Dump	РМ	0.07	0.03
	Station Baghouse Stack (6)	PM <sub>10</sub>	0.07	0.03
158	Food Grade Dump	PM	0.10	0.10
	Back Station Baghouse Stack (6)	PM <sub>10</sub>	0.10	0.10
160	Bulk 1 10K Weighbin	РМ	0.66	2.64
	Baghouse Stack (6)	PM <sub>10</sub>	0.66	2.64
161	Bulk 1 10K Blender	PM	0.08	0.37
	Baghouse Stack (6)	PM <sub>10</sub>	0.08	0.37
162	Bulk 1 20K Blender Baghouse Stack (6)	PM	0.07	0.31

Baghouse Stack (6)

		PM <sub>10</sub>	0.07	0.31
164	Bulk 1 Offline Bagging	PM	0.24	0.54
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.54
165	Bulk 1 Tank 1	PM	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
166	Bulk 1 Tank 2	РМ	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
167		PM	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
168	Bulk 1 Tank 4	PM	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
169	Bulk 1 Tank 5	PM	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
170	Bulk 1 Tank 6	PM	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
171	Bulk 1 Tank 7	PM	0.12	0.06
	Baghouse Stack (6)	PM <sub>10</sub>	0.12	0.06
172	Bulk 1 Tank 8 Baghouse Stack (6)	РМ	0.12	0.06
		PM <sub>10</sub>	0.12	0.06
173	Bulk 1 Dump Back	PM	0.08	0.32
	Station Baghouse Stack (6)	PM <sub>10</sub>	0.08	0.32
176	Bulk 1 Vacuum	PM	0.03	0.10
	System Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.10
180A	Bulk 2 10K Weighbin	PM	0.05	0.19
	Baghouse Stack (6)	PM <sub>10</sub>	0.05	0.19
180B	Bulk 2 10K Weighbin	PM	0.05	0.19
	Baghouse Stack (6)	PM <sub>10</sub>	0.05	0.19
181	Bulk 2 10K Blender	PM	0.07	0.31
	Baghouse Stack (6)	PM <sub>10</sub>	0.07	0.31
		VOC (Acetic Acid)	15.00	2.73

182	Bulk 2 Vacuum	РМ	0.01	0.06
	System Baghouse Stack (6)	PM <sub>10</sub>	0.01	0.06
183	Bulk 3 Vacuum	PM	0.01	0.06
	System Baghouse Stack (6)	PM <sub>10</sub>	0.01	0.06
184	Bulk 2 Offline Bagging	PM	0.24	0.97
	East Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.97
186	Bulk 2 Offline Bagging	PM	0.43	1.75
	East Baghouse Stack (6)	PM <sub>10</sub>	0.43	1.75
188	Bulk 2 Dump Back	PM	0.22	0.22
	Station Baghouse Stack (6)	PM <sub>10</sub>	0.22	0.22
189	Bulk 2 Tank 16	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
190	Bulk 2 Tank 15	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
191	Bulk 2 Tank 14	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
192	Bulk 2 Tank 13	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
193	Bulk 2 Tank 12	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
194	Bulk 2 Tank 11	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
195	Bulk 2 Tank 10	PM	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
196	Bulk 2 Tank 9	РМ	0.24	0.12
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.12
202	Quaternary Amine Storage Tank	VOC (Quaternary Amine)	0.07	< 0.01
203	Boiler No. 3 Stack	PM	0.14	0.61
		PM <sub>10</sub>	0.14	0.61
		SO <sub>2</sub>	0.27	1.16

		NO <sub>x</sub>	1.83	8.01
		СО	1.54	6.73
		VOC	0.10	0.44
204	Boiler No. 2 Stack	PM	0.14	0.61
		PM <sub>10</sub>	0.14	0.61
		SO <sub>2</sub>	0.27	1.16
		NO <sub>x</sub>	1.83	8.01
		СО	1.54	6.73
		VOC	0.10	0.44
206	Propane Tank	VOC	0.02	0.09
210	Brine Maker Operation	PM	1.00	0.08
		PM <sub>10</sub>	1.00	0.08
220	Mill 5 A Product	PM	0.05	0.19
	Receiving Cyclone Stack	PM <sub>10</sub>	0.04	0.16
221	Mill 5 B Product	PM	0.05	0.19
	Receiving Cyclone Stack	PM <sub>10</sub>	0.04	0.16
222	Mill 5 A Product	РМ	1.31	5.43
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.12	4.64
	Stack [i dillace]	SO <sub>2</sub>	0.07	0.31
		NO <sub>x</sub>	0.49	2.15
		СО	0.41	1.81
		VOC	0.03	0.12
223	Mill 5 B Product	PM	1.31	5.43
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.12	4.64
	Guaix [r amass]	SO <sub>2</sub>	0.07	0.31
		NO <sub>x</sub>	0.49	2.15
		СО	0.41	1.81
		VOC	0.03	0.12
224	Mill 5 A Product	PM	1.31	5.43
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.12	4.64
	[]	SO <sub>2</sub>	0.07	0.31

		СО	0.41	1.81
		VOC	0.03	0.12
225	Mill 5 B Product	PM	1.31	5.43
	Receiving Cyclone Stack [Furnace]	PM <sub>10</sub>	1.12	4.64
	Stack [Famace]	SO <sub>2</sub>	0.07	0.31
		NO <sub>x</sub>	0.49	2.15
		СО	0.41	1.81
		VOC	0.03	0.12
226	Mill 5 A Sect Recycle	PM	0.04	0.16
	Collector Baghouse Stack (6)	PM <sub>10</sub>	0.04	0.16
227	Mill 5 B Sect Recycle	PM	0.04	0.16
	Collector Baghouse Stack (6)	PM <sub>10</sub>	0.04	0.16
228	Mill 5 A Sect Product	PM	0.02	0.06
	Receiver Baghouse Stack (6)	PM <sub>10</sub>	0.02	0.06
229	Mill 5 B Sect Producer	PM	0.02	0.06
	Receiver Baghouse Stack (6)	PM <sub>10</sub>	0.02	0.06
230	Mill 5 A Regrind	PM	0.29	0.69
	Product Collector Baghouse Stack (6)	PM <sub>10</sub>	0.29	0.69
240	Bulk 3 20K Headbin	PM	0.39	1.57
	Baghouse Stack (6)	PM <sub>10</sub>	0.39	1.57
241	Bulk 3 Bagging Station	PM	0.24	0.97
	Baghouse Stack (6)	PM <sub>10</sub>	0.24	0.97
242	Bulk 3 Bagging Station	PM	1.47	5.94
	Baghouse Stack (6)	PM <sub>10</sub>	1.47	5.94
243	Bulk 3 Air Mix Blender	PM	0.38	1.52
	Baghouse Stack (6)	PM <sub>10</sub>	0.38	1.52
244	Bulk 2 Dry Chem	PM	0.47	0.83
	Additive Station Baghouse Vent (6)	PM <sub>10</sub>	0.47	0.83
245	Granulated Guar	РМ	0.26	0.13
	Process Baghouse Stack (6)	PM <sub>10</sub>	0.26	0.13

254	Cooling Tower C	PM	0.21	0.90
	Stack	PM <sub>10</sub>	0.21	0.90
255	Cooling Tower D	PM	0.17	0.75
	Stack	PM <sub>10</sub>	0.17	0.75
PP-1	Pilot Plant Primary	PM	0.04	0.09
	Cyclone Stack	PM <sub>10</sub>	0.04	0.07
PP-2	Pilot Plant Secondary	PM	0.04	0.09
	Cyclone Stack	PM <sub>10</sub>	0.04	0.07
260	Milling 4 Vacuum	PM	0.03	0.14
	System Baghouse Stack (6)	PM <sub>10</sub>	0.03	0.14
261	Milling 5 Vacuum	PM	0.02	0.08
	System Baghouse Stack (6)	PM <sub>10</sub>	0.02	0.08
FV-101	Prox Equipment Leak Fugitives (5)	VOC	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) CO carbon monoxide
  - NO<sub>x</sub> total oxides of nitrogen
  - PM total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - $PM_{10}$  total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ , as represented
  - SO<sub>2</sub> sulfur dioxide
  - 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 activity. The emissions associated with this maintenance activity are de minimis.
- (7) Planned startup and shutdown emissions are included. Maintenance activities except for bag or pleated filter replacements, are not authorized by this permit.

Date:	August 10, 2015