Emission Sources - Maximum Allowable Emission Rates

Permit Number 149143

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

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
X1	Bean Dumping Baghouse Stack	PM	0.10	0.46
		PM_{10}	0.10	0.46
		$PM_{2.5}$	0.10	0.46
X2	Bean Pre-Cleaning Baghouse Stack	PM	0.14	0.63
		PM_{10}	0.14	0.63
		$PM_{2.5}$	0.14	0.63
X3	Bean Cleaning Baghouse Stack	PM	0.44	1.91
		PM_{10}	0.44	1.91
		$PM_{2.5}$	0.44	1.91
X5	Shell Handling System Baghouse Stack	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
X6	Shell Silo No. 1 Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X7	Shell Silo No. 2 Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X8	Central Dust Collecting Station Stack	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
X11	Mixer Weigh Hopper No. 1 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

X12	Mixer Weigh Hopper No. 2 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X13	Mixer Weigh Hopper No. 3 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X14	Mixer Weigh Hopper No. 4 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X15	Mixer Weigh Hopper No. 5 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X16	Mixer Weigh Hopper No. 6 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X18	Nib Feed Hopper Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X19	Roaster Burner Exhaust Stack (3.07 MMBtu/hr)	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
		VOC	0.02	0.07
		CO	0.25	1.11
		NO_x	0.30	1.32
		SO_2	<0.01	<0.01
X21	Pre-Grind Hopper No. 1 Stack	PM	0.03	0.12
		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
X22	Pre-Grind Hopper No. 2 Stack	PM	0.03	0.12

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.03	0.12
		$PM_{2.5}$	0.03	0.12
X24	Regenerative Thermal Oxidizer Exhaust Stack (4.60 MMBtu/hr)	PM	0.24	0.46
		PM_{10}	0.18	0.34
		$PM_{2.5}$	0.18	0.34
		VOC	0.45	0.87
		CO	1.19	2.28
		NO_x	0.82	1.58
		SO_2	<0.01	0.01
X31	Skimmed Milk Powder Silo – Dark Line Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X32	Crystal Sugar Silo – Dark Line Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X33	Other Ingredients Dump Station – Dark Line Stack	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
X34	Dark Line Conches (5)	VOC	0.13	0.56
X41	High Fat Milk Powder Silo – Milk Line Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X42	Skimmed Milk Powder Silo – Milk Line Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X43	Crystal Sugar Silo – Milk Line	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X44	Other Ingredients Dump Station – Milk	PM	<0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
X46	High Fat Milk Powder Dump Station – Milk Line Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
X47	High Fat Milk Powder Intake Hopper – Milk Line Stack	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
X48	Milk Line Conches (5)	VOC	0.10	0.45
X51	Skimmed milk Powder Bulk Silo Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X52	Skimmed Milk powder Intake Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
X53	Miscellaneous Powder Intake Hopper Stack	PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
X61	Hot Water Boiler No. 1 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X62	Hot Water Boiler No. 2 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09

Emission Sources - Maximum Allowable Emission Rates

		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X63	Hot Water Boiler No. 3 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X64	Hot Water Boiler No. 4 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X71	Cooling Tower No. 1	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
X72	Cooling Tower No. 2	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
X73	Cooling Tower No. 3	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
X74	Cooling Tower No. 4	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07

Emission Sources - Maximum Allowable Emission Rates

X75	Cooling Tower No. 5	PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
X81	Hot Water Boiler No. 5 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X82	Hot Water Boiler No. 6 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X83	Hot Water Boiler No. 7 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44
		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X84	Hot Water Boiler No. 8 Stack (4.00 MMBtu/hr)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.33	1.44

Emission Sources - Maximum Allowable Emission Rates

		NO_x	0.15	0.64
		SO_2	<0.01	0.01
X91	Fire Pump (200 hp)	PM	0.07	<0.01
		PM_{10}	0.07	<0.01
		$PM_{2.5}$	0.07	<0.01
		VOC	0.26	0.01
		CO	1.15	0.06
		NO_x	1.05	0.05
		SO_2	0.41	0.02
X92	Steam Boiler Stack (12.55 MMBtu/hr)	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.09	0.41
		VOC	0.07	0.30
		CO	1.03	4.53
		NO_x	0.46	2.00
		SO_2	<0.01	0.03
X93	Emergency Engine No. 1 Stack (617 hp)	PM	0.20	0.01
		PM_{10}	0.20	0.01
		$PM_{2.5}$	0.20	0.01
		VOC	0.81	0.04
		CO	3.55	0.18
		NO_x	3.25	0.16
		SO_2	1.26	0.06
X94	Emergency Engine No. 2 Stack (2923 hp)	PM	0.96	0.05
		PM_{10}	0.96	0.05
		$PM_{2.5}$	0.96	0.05
		VOC	6.15	0.31
		CO	16.82	0.84
		NO_x	24.60	1.23

Emission Sources - Maximum Allowable Emission Rates

		SO_2	5.99	0.30
X95	Emergency Engine No. 3 Stack (617 hp)	PM	0.20	0.01
		PM_{10}	0.20	0.01
		$PM_{2.5}$	0.20	0.01
		VOC	0.81	0.04
		CO	3.55	0.18
		NO_x	3.25	0.16
		SO_2	1.26	0.06
X101	Sugar Silo No. 1 – Top Point Stack	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
X102	Sugar Silo No. 2 – Top Point Stack	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
X103	Sugar Silo No. 1 – Bottom Point Stack	PM	<0.01	0.04
		PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	0.04
X104	Sugar Silo No. 2 – Bottom Point Stack	PM	<0.01	0.04
		PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	0.04
All	All	Individual HAP	-	<10
		Combined HAPs	-	<25

(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 Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Emission Sources - Maximum Allowable Emission Rates

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition No. 21, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: Draft