EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8758

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	Emission Rates* lb/hr	TPY
F-400	Fugitives (4)	VOC	13.05	57.18
401	Cat Supp Dehydrator	PM_{10}	0.01	0.01
		VOC	0.40	0.03
402	Cat Blow Tank	PM_{10}	0.01	0.01
403	Storage Vessel	PM_{10}	0.01	0.01
413	Cat Fdr RX44	PM_{10}	0.01	0.01
415	Cat Fdr RX45	PM_{10}	0.01	0.01
423	Prod. Conveying Filter	PM_{10}	0.01	0.01
		TSP	0.03	0.11
		VOC	(18)	(18)
424	Prod. Conveying Filter	PM_{10}	0.01	0.01
		TSP	0.03	0.11
		VOC	(18)	(18)
429A	Analyzer	VOC	0.36	0.43
429B	Analyzer	VOC	0.36	0.43
429C	Analyzer	VOC	0.67	0.80
429D	Analyzer	VOC	0.67	0.80

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
429E	Analyzer	VOC	0.36	0.43
429F	Analyzer	VOC	0.36	0.43
612-F5959	TNPPTANK	VOC	0.02	0.01
612-F6640A	OMS/Peroxide Tank	VOC	0.04	0.01
612-F6640B	OMS/Peroxide Tank	VOC	0.04	0.01
612-F4706	Diesel Tank	VOC	0.02	0.01
641A	Analyzer	VOC	0.07	0.08
642A	Analyzer	VOC	1.84	2.21
642B	Analyzer	VOC	1.84	2.21
642C	Analyzer	VOC	0.01	0.01
642D	Analyzer	VOC	0.01	0.01
642E	Analyzer	VOC	0.01	0.01
642F	Analyzer	VOC	1.3	1.56
642G	Analyzer	VOC	0.01	0.01
642H	Analyzer	VOC	0.01	0.01
643	Analyzer	VOC	0.13	0.57

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
645	Surge Silo	PM_{10}	0.01	0.01
		VOC	83.61	127.81
		TSP	0.50	2.07
646A	Filter Receiver	PM_{10}	0.27	0.16
		TSP	0.27	0.16
647A	Storage Silo	PM_{10}	0.01	0.01
		TSP	0.26	0.49
648	Additive Vacuum	PM_{10}	0.01	0.01
		TSP	0.01	0.04
649	Additive Vacuum	PM_{10}	0.01	0.01
		TSP	0.01	0.04
650	Spin Drier 4A	TSP	1.33	3.62
		VOC	(18)	(18)
651	Spin Drier 4B	TSP	(21)	(21)
		VOC	(18)	(18)
652	Product Silo	PM_{10}	0.01	0.02
		TSP	0.25	1.02
		VOC	(18)	(18)
653	Product Silo	PM_{10}	0.01	0.02
		TSP	0.25	1.02
		VOC	(18)	(18)
654AB	L4A Flo-Triator	PM_{10}	0.02	0.08
		TSP	1.17	4.71
		VOC	(18)	(18)
655AB	L4B Flo-Triator	PM_{10}	0.02	0.08

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
		TSP	1.17	4.71
		VOC	(18)	(18)
656	Line 4A Railcar Loadout Filter	TSP	0.03	0.02
		PM_{10}	0.01	0.01
		VOC	(18)	(18)
657	Line 4B Railcar Loadout Filter	TSP	(7)	(7)
		PM_{10}	0.01	0.01
		VOC	(18)	(18)
662	Surge Silo	PM_{10}	(19)	(19)
		VOC	(18)	(18)
		TSP	(19)	(19)
663	Surge Silo	PM_{10}	(19)	(19)
		VOC	(18)	(18)
		TSP	(19)	(19)
664	Surge Silo	PM_{10}	(19)	(19)
		VOC	(18)	(18)
		TSP	(19)	(19)
665	Line 5 Loadout Surge Vessel	VOC	(18)	(18)
666	Line 5 Loadout Surge Vessel	VOC	(18)	(18)
667	Line 5 Prefill Bin	VOC	(18)	(18)
668	Line 5 Prefill Bin	VOC	(18)	(18)
669	Line 5 Prefill Bin	VOC	(18)	(18)
670	Line 5 Prefill Bin	VOC	(18)	(18)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
671	Line 5 Prefill Bin	VOC	(18)	(18)
672	Line 5 Prefill Bin	VOC	(18)	(18)
673	Line 5 Prefill Bin	VOC	(18)	(18)
674	Line 5 Prefill Bin	VOC	(18)	(18)
675	Line 6 Loadout Surge Vessel	VOC	(18)	(18)
676	Line 6 Loadout Surge Vessel	VOC	(18)	(18)
677	Line 6 Prefill Bin	VOC	(18)	(18)
678	Line 6 Prefill Bin	VOC	(18)	(18)
679	Line 6 Prefill Bin	VOC	(18)	(18)
680	Line 6 Prefill Bin	VOC	(18)	(18)
681	Line 6 Prefill Bin	VOC	(18)	(18)
682	Line 6 Prefill Bin	VOC	(18)	(18)
683	Line 6 Prefill Bin	VOC	(18)	(18)
684	Line 6 Prefill Bin	VOC	(18)	(18)
685	Storage Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
686	Seed Silo	PM_{10}	0.01	0.01
		TSP	0.38	0.05
		VOC	(18)	(18)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
687	Feed Hopper	PM_{10}	0.01	0.01
		TSP	0.01	0.02
		VOC	(18)	(18)
688	Feed Hopper	PM_{10}	0.01	0.01
		TSP	0.01	0.02
		VOC	(18)	(18)
689	L5 Product Silo	PM_{10}	0.01	0.05
		TSP	0.45	1.81
		VOC	(18)	(18)
690	L5 Product Silo	PM_{10}	0.01	0.06
		TSP	0.45	1.81
		VOC	(18)	(18)
691	L5 Product Silo	PM_{10}	(8)	(8)
		TSP	(8)	(8)
		VOC	(18)	(18)
692	L5 Product Silo	PM_{10}	(9)	(9)
		TSP	(9)	(9)
		VOC	(18)	(18)
693	Line 5 and 6 Vacuum System Filter	TSP	0.04	0.17
		PM_{10}	0.01	0.01
694	Line 4A/4B Vacuum System Filter	TSP	0.03	0.14
		PM_{10}	0.01	0.01
695	Sample Pot	TSP	4.01	0.55
		VOC	(18)	(18)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
696	Sample Pot	TSP	4.01	0.55
		VOC	(18)	(18)
697	Sample Pot	TSP	1.99	0.55
		VOC	(18)	(18)
698	Sample Pot	TSP	1.99	0.55
		VOC	(18)	(18)
699	Sample Pot	TSP	1.99	0.01
		VOC	(18)	(18)
721	Flare Air-Assist (10)	VOC	270.52	257.79
		CO	181.32	138.56
		NO_x	25.75	43.23
723	Steam Generator	VOC	0.02	0.11
		NO_x	0.45	1.97
		CO	0.38	1.66
		SO_2	0.01	0.01
		PM_{10}	0.03	0.15
723A	Boiler	VOC	0.03	0.14
		CO	0.49	2.16
		NO_x	0.59	2.58
		PM_{10}	0.04	0.20
		SO_2	0.01	0.02
800	Fugitives (4)	VOC	4.25	18.61
801	Cat Supp Dehydrator	PM_{10}	0.01	0.01
802	Cat Blow Tank	PM_{10}	0.01	0.01
803	Storage	PM_{10}	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
813	Cat Feeder RX60	PM_{10}	0.01	0.01
817	Reactor 60	VOC	19.9	0.2
819A	Analyzer	VOC	0.36	0.43
819B	Analyzer	VOC	0.36	0.43
819C	Analyzer	VOC	0.36	0.43
819D	Analyzer	VOC	0.36	0.43
819E	Analyzer	VOC	0.36	0.43
821	Prod. Conveying	PM_{10}	0.01	0.01
		TSP	0.03	0.11
		VOC	(18)	(18)
845	Surge Silo	PM_{10}	(19)	(19)
		VOC	(18)	(18)
		TSP	(19)	(19)
848	Additive Vacuum	PM_{10}	0.60	2.43
		TSP	0.60	2.43
849AB	Additive Vacuum	PM_{10}	0.01	0.01
		TSP	0.02	0.08
850	Spin Drier	TSP	(21)	(21)
		VOC	(18)	(18)
851	Spin Drier	TSP	(21)	(21)
		VOC	(18)	(18)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
854	Elutriator	PM_{10}	0.03	0.11
		TSP	0.88	3.62
		VOC	(18)	(18)
855	Elutriator	PM_{10}	0.03	0.12
		TSP	0.88	3.62
		VOC	(18)	(18)
858	Flare-Ground	VOC	(10)	(10)
		CO	(10)	(10)
		NO_x	(10)	(10)
861	Reactor 44	VOC	20.0	0.2
862	Reactor 45	VOC	20.0	0.2
863	Hexene Storage	VOC	0.47	0.88
866	Surge Silo	PM_{10}	0.01	0.04
		VOC	(18)	(18)
		TSP	0.69	2.87
867	Surge Silo	PM_{10}	(11)	(11)
		VOC	(18)	(18)
		TSP	(11)	(11)
868	Surge Silo	PM_{10}	(11)	(11)
		VOC	(18)	(18)
		TSP	(11)	(11)
869	Surge Silo	PM_{10}	(11)	(11)
		VOC	(18)	(18)
		TSP	(11)	(11)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
870	Surge Silo	PM_{10}	(11)	(11)
		VOC	(18)	(18)
		TSP	(11)	(11)
871	Filter Receiver	PM_{10}	0.01	0.01
		TSP	0.57	2.38
		VOC	(18)	(18)
872	Filter Receiver	PM_{10}	0.01	0.01
		TSP	0.57	2.38
		VOC	(18)	(18)
873	Filter Receiver	PM_{10}	0.01	0.01
		TSP	0.57	2.38
		VOC	(18)	(18)
877	Additive Vacuum	PM_{10}	0.01	0.01
		TSP	0.02	0.08
878	Product Silo	PM_{10}	(8)	(8)
		TSP	(8)	(8)
		VOC	(18)	(18)
879	Product Silo	PM_{10}	(9)	(9)
		TSP	(9)	(9)
		VOC	(18)	(18)
884	Feed Silo	PM_{10}	0.01	0.04
		TSP	0.62	2.61
		VOC	(18)	(18)
885	Feed Silo	PM_{10}	0.04	0.07
		TSP	0.04	0.07

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
886	Feed Silo	PM_{10}	(12)	(12)
		TSP	(12)	(12)
		VOC	(18)	(18)
887	Feed Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
888	Feed Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
889	Feed Silo	PM_{10}	0.01	0.04
		TSP	0.62	2.61
		VOC	(18)	(18)
890	Feed Silo	PM_{10}	(13)	(13)
		TSP	(13)	(13)
891	Feed Silo	PM_{10}	(14)	(14)
		TSP	(14)	(14)
		VOC	(18)	(18)
892	Feed Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
893	Feed Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
900	Filter Receiver	PM_{10}	0.01	0.01
		TSP	0.26	0.04
		VOC	(18)	(18)
902	Storage	PM_{10}	0.08	0.06
		TSP	0.08	0.06

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
910	Feed Silo	PM_{10}	0.01	0.01
		TSP	0.32	1.34
		VOC	(18)	(18)
911	Feed Silo	PM_{10}	(15)	(15)
		TSP	(15)	(15)
		VOC	(18)	(18)
912	Feed Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
913	Feed Silo	PM_{10}	0.01	0.01
		TSP	0.04	0.04
922	Storage Silo	PM_{10}	0.01	0.01
		TSP	0.01	0.04
923	Storage Silo	PM_{10}	0.01	0.01
		TSP	0.01	0.04
924	Hold-Up Bin	VOC	(18)	(18)
925	Product Silo	PM_{10}	(6)	(6)
		TSP	(6)	(6)
		VOC	(18)	(18)
926	Product Silo	PM_{10}	(6)	(6)
		TSP	(6)	(6)
		VOC	(18)	(18)
927	Filter Receiver	PM_{10}	0.01	0.01
		TSP	0.45	0.13
		VOC	(18)	(18)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
928	L4B Scalperator	PM_{10}	0.01	0.01
		TSP	0.86	3.38
		VOC	(18)	(18)
929	Product Silo	PM_{10}	(6)	(6)
		TSP	(6)	(6)
		VOC	(18)	(18)
930	Feed Silo	PM_{10}	0.01	0.01
		TSP	0.32	1.34
		VOC	(18)	(18)
931	Feed Silo	PM_{10}	(17)	(17)
		TSP	(17)	(17)
		VOC	(18)	(18)
932	Feed Silo	PM_{10}	(16)	(16)
		TSP	(16)	(16)
933	Feed Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
942	Storage Silo	PM_{10}	0.01	0.01
		TSP	0.01	0.04
943	Storage Silo	PM_{10}	0.01	0.01
		TSP	0.01	0.04
944	Hold-Up Bin	VOC	(18)	(18)
945	Product Silo	PM_{10}	(5)	(5)
		TSP	(5)	(5)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
		VOC	(18)	(18)
946	Product Silo	PM_{10}	(5)	(5)
		TSP	(5)	(5)
		VOC	(18)	(18)
947	Product Silo	PM_{10}	(5)	(5)
		TSP	(5)	(5)
		VOC	(18)	(18)
948	L4A Scalperator	PM_{10}	0.02	0.06
		TSP	0.86	3.38
		VOC	(18)	(18)
949	Filter Receiver	PM_{10}	0.01	0.01
		TSP	0.45	0.13
		VOC	(18)	(18)
950	Dust Collector	PM_{10}	0.01	0.01
		TSP	0.17	0.71
953	Sampler	TSP	0.05	0.01
		VOC	(18)	(18)
954	Sampler	TSP	0.05	0.01
		VOC	(18)	(18)
955	Hold-Up Bin	VOC	(18)	(18)
956	Hold-Up Bin	VOC	(18)	(18)
957	Hold-Up Bin	VOC	(18)	(18)
958	Hold-Up Bin	VOC	(18)	(18)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
959	Sample Hopper	TSP	10.39	0.01
		VOC	(18)	(18)
960	Sample Hopper	TSP	10.39	0.01
		VOC	(18)	(18)
961	Sample Hopper	TSP	5.20	0.01
		VOC	(18)	(18)
962	Sample Hopper	TSP	5.20	0.01
		VOC	(18)	(18)
963	Reclaim System	PM_{10}	0.01	0.01
		TSP	0.01	0.02
		VOC	(18)	(18)
970	Storage Silo	PM_{10}	(20)	(20)
		TSP	(20)	(20)
973	Surge Silo	TSP	0.03	0.11
		PM_{10}	0.01	0.01
		VOC	(18)	(18)
974	Vacuum Filter Receiver	TSP	0.09	0.19
		PM_{10}	0.01	0.01
976	Boiler	VOC	0.03	0.14
		NO_x	0.59	2.58
		CO	0.49	2.16
		SO_x	0.01	0.02
		PM_{10}	0.04	0.20

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
980	Emergency Generator	VOC	1.09	0.05
		NO_x	13.45	0.67
		CO	2.90	0.14
		SO_2	0.89	0.04
		PM_{10}	0.95	0.05
988	Compounding Shop Safety Kleen Degreaser	VOC	0.21	0.20
989	LP Shop Safety Kleen Degreaser	VOC	0.21	0.20
991	Feed Purification	VOC	0.11	0.10
992	Feed Purification	VOC	0.19	0.17
993A	Silyl Chromate Pot	VOC	1.7	0.1
993B	Silyl Chromate Pot	$PM_{2.5}$	0.01	0.01
		TSP	0.01	0.01
995	M-1999 or M-19108 Line 4a Additive Transfer Blower Guard Filter	PM_{10}	0.02	0.10
996	M-2999 or M-29108 Line 4a Additive Transfer Blower Guard Filter	PM_{10}	0.02	0.10
997	M-46996 Line 4a Additive	PM_{10}	0.10	0.45

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name(2)	Air Contaminant Name (3)	Emission Rates* lb/hrTPY
	Transfer Filter Receiver		

(1) Emission point identification - either specific equipment designated 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
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter
TSP - total suspended particulate
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
$PM_{2.5}$ - particulate matter (PM) equal to or less than 2.5 microns in diameter
SO_x - sulfur oxides
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Total particulate emissions from EPNs 652, 945, 946, and 947 are listed under EPN 652.
(6) Total particulate emissions from EPNs 653, 925, 926, and 929 are listed under EPN 653.
(7) Total particulate emissions from EPNs 656 and 657 are listed under EPN 656.
(8) Total particulate emissions from EPNs 689, 691, and 878 are listed under EPN 689.
(9) Total particulate emissions from EPNs 690, 692, and 879 are listed under EPN 690.
(10) Total VOC, NO_x, and CO emissions for the two Flares (EPNs 721 and 858) are listed under EPN 721.
(11) Total particulate emissions from EPNs 866, 867, 868, 869, and 870 are listed under EPN 866.
(12) Total particulate emissions from EPNs 884 and 886 are listed under EPN 884.
(13) Total particulate emissions from EPNs 885 and 890 are listed under EPN 885.
(14) Total particulate emissions from EPNs 889 and 891 are listed under EPN 889.
(15) Total particulate emissions from EPNs 910 and 911 are listed under EPN 910.
(16) Total particulate emissions from EPNs 913 and 932 are listed under EPN 913.
(17) Total particulate emissions from EPNs 930 and 931 are listed under EPN 930.

(18) Total residual VOC emissions from all EPNs downstream of the product purge vessels are listed under EPN 645.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(19) Total particulate emissions from EPNs 645, 662, 663, 664, and 845 are listed under EPN 645.
(20) Total particulate emissions from EPNs 647A, 685, 887, 888, 892, 893, 912, 933, and 970 are listed under EPN 647A.
(21) Total particulate emissions from EPNs 650, 651, 850, and 851 are listed under EPN 650.

* 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 8,760

Dated December 12, 2005