Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 78421 and PSDTX1183

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	
			lbs/hour	TPY (4)
LGNTUNLPIT	Lignite Unloading Pit Fugitives	PM	0.01	0.01
		$PM_{10}/PM_{2.5}$	<0.01	<0.01
STAMLER	Stamler Mill (Lignite Crusher #1) Fugitives	PM	0.02	0.03
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
LGPTTOLSB	Transfer Lignite-to-Lignite Surge Bin Fugitives	PM	0.03	0.04
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
KLN5TRNSFR	Kiln 5 Transfer Conveyors Fugitives	PM	0.03	0.04
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
WILLMILL	Williams Mill Fugitives	PM	0.02	0.03
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
FGTVTRNSFR	Lignite Transfer to Kilns 2, 3, and 4 Fugitives	PM	0.03	0.04
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
MHFXFRDCVT	MHF #1Lignite Transfer Pt Dust Vent	$PM/PM_{10}/PM_{2.5}$	0.05	0.23
MHFLSDCVT	MHF #1 Lignite Silo DC Vent (Lignite Silo #3)	$PM/PM_{10}/PM_{2.5}$	0.05	0.23
MHFLS2DCVT	MHF #2 Lignite Silo DC Vent (Lignite Silo #4)	$PM/PM_{10}/PM_{2.5}$	0.05	0.23
M2FDBNDCVT	MHF #2 Feed Bin DC Vent	$PM/PM_{10}/PM_{2.5}$	0.02	0.09
LIGSIL4VFD	Lignite Silo #4 (MHF #2 Lignite Silo) Vibrating Feeder	PM	0.01	0.03
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
MHF2STACK	MHF #2 Stack -Normal Operations (5)	$PM/PM_{10}/PM_{2.5}$	3.53	15.45
		NO_x	9.10	39.86
		SO_2	16.40	71.83
		CO	6.60	28.91

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		VOC	2.30	6.55
		Pb	<0.01	0.02
		H_2SO_4	0.98	4.29
		Hg	<0.01	0.01
		HCl	0.01	0.04
		HF	<0.01	0.05
MHF2VENT	MHF #2 Vent - MSS Operations (6)	$PM/PM_{10}/PM_{2.5}$	0.29	0.01
		NO_x	1.21	0.06
		SO_2	0.02	<0.01
		CO	3.17	0.16
		VOC	0.21	0.01
13BKBNDCSK	#13 Bulk Bin DC Stack	$PM/PM_{10}/PM_{2.5}$	0.05	0.21
15BKBNDCSK	#15 Bulk Bin DC Stack	$PM/PM_{10}/PM_{2.5}$	0.05	0.21
16BKBNDCSK	#16 Bulk Bin DC Stack	$PM/PM_{10}/PM_{2.5}$	0.05	0.21
6MILLDCSTK	#6 Mill DC Stack	PM/PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.30
6MILLFDBNA	#6 Mill Feed Bin A DC Stack	PM/PM10/PM2.5	0.04	0.19
6MILLFDBNB	#6 Mill Feed Bin B DC Stack	$PM/PM_{10}/PM_{2.5}$	0.04	0.19
M3XFERDCSK	MHF3 Conveyor and Tote Bag Loading DC Vent	$PM/PM_{10}/PM_{2.5}$	0.06	0.28
LOB1DCST	Load Out Bin #1 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.06	0.26
LS1DCSTK	Loading Spout #1 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.03	0.04
LOB2DCST	Load Out Bin #2 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.06	0.26
LS2DCSTK	Loading Spout #2 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.03	0.04
M3FDBNDCVT	MHF #3 Feed Bin DC Vent	$PM/PM_{10}/PM_{2.5}$	0.02	0.09
MHF3STACK	MHF #3 Stack - Normal Operations (5)	$PM/PM_{10}/PM_{2.5}$	4.13	18.1
		NO_x	11.25	49.29
		SO_2	16.40	71.83
		CO	6.12	26.80
		VOC	3.00	8.54
		Pb	<0.01	0.02
		H_2SO_4	0.98	4.29
		Hg	<0.01	0.01

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		HCl	0.01	0.04
		HF	0.01	0.05
MHF3VENT	MHF #3 Vent - MSS Operations (6)	$PM/PM_{10}/PM_{2.5}$	0.29	0.01
		NO_x	1.21	0.06
		SO_2	0.02	<0.01
		CO	3.17	0.16
		VOC	0.21	0.01
17BKBNDCSK	#17 Bulk Bin DC Stack	$PM/PM_{10}/PM_{2.5}$	0.05	0.23
18BKBNDCSK	#18 Bulk Bin DC Stack	$PM/PM_{10}/PM_{2.5}$	0.05	0.23
19BKBNDCSK	#19 Bulk Bin DC Stack	$PM/PM_{10}/PM_{2.5}$	0.05	0.23
7MILLDCSTK	#7 Mill DC Stack	PM/PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.30
7MILLFDBNA	#7 Mill Feed Bin A DC Stack	$PM/PM_{10}/PM_{2.5}$	0.02	0.08
7MILLFDBNB	#7 Mill Feed Bin B DC Stack	$PM/PM_{10}/PM_{2.5}$	0.02	0.08
LOB3DCST	Load Out Bin #3 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.06	0.26
LS3DCSTK	Loading Spout #3 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.03	0.04
LOB4DCST	Load Out Bin #4 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.06	0.26
LS4 DCST	Loading Spout #4 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.03	0.04
M2ASHDCVT	MHF #2-3 Ash Silo Vacuum Blower DC	PM/PM_{10}	0.06	0.28
		$PM_{2.5}$	0.01	0.03
M2ASHLOAD	MHF #2-3 Ash Silo Truck Loading DC	PM/PM_{10}	0.06	0.09
		$PM_{2.5}$	0.01	0.01
LOB5DCST	Load Out Bin #5 DC Stack	$PM/PM_{10}PM_{2.5}$	0.06	0.26
LS5DCSTK	Loading Spout #5 DC Stack	$PM/PM_{10}/PM_{2.5}$	0.03	0.04
LS1DCVT	Lignite Silos #1 DC Vent	$PM/PM_{10}/PM_{2.5}$	0.01	0.04
LS2DCVT	Lignite Silos #2 DC Vent	$PM/PM_{10}/PM_{2.5}$	0.01	0.04
TOTEBIN1	ToteBin 1	$PM/PM_{10}/PM_{2.5}$	<0.01	<0.01
TOTEBIN2	ToteBin 2	$PM/PM_{10}/PM_{2.5}$	<0.01	<0.01
5SCRNSDCSK	No. 5 Screens Dust Collector Vent	$PM/PM_{10}/PM_{2.5}$	0.08	0.34
5SCRNGACLD	No. 5 Screens Product Bag Loading	PM	0.04	0.17
		PM_{10}	0.02	0.08

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		$PM_{2.5}$	0.01	0.01
5SCRNBLKLD	No. 5 Screens Tote/Bulk Bag Loading	PM	0.11	0.50
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.01	0.01
GMSPTRSTK	Grinding Mill Separator	$PM/PM_{10}/PM_{2.5}$	0.17	0.75
SALTUNLOAD	Salt Unloading Facility	PM	0.49	0.01
		PM_{10}	0.23	0.01
		$PM_{2.5}$	0.04	<0.01
UREAVENT	Urea Storage Tank	$(NH_2)_2CO$	<0.01	<0.01
BBAGFUG	Bulk Bag Unloading Fugitives	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
BBAGXER	Bulk Bag Unloading Dust Collector	PM	0.06	0.25
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
DC - dust collector
(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 - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCl - hydrogen chloride
HF - hydrogen fluoride
Hg - mercury
H_2SO_4 - sulfuric acid
Pb - lead
$(NH_2)_2CO$ - urea

(4) Compliance with annual emission limits is based on a rolling 12-month period.
(5) Activities and emissions associated with MHF Normal Operations as defined in Special Condition Nos. 7 and 8.
(6) Activities and emissions associated with MHF MSS Operations as defined in Special Condition Nos. 7 and 9.

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Dated: January 10, 2019