#### Permit Numbers 9403B and PSDTX627M2

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)
WG-CAP	Waste Gas Combustion Annual Emissions Cap	РМ		202.9
	Almaa Emissions Cap	NO <sub>x</sub>		628.3
		SO <sub>2</sub>		5821.2
		СО		1307.5
		VOC (5)		50.7
		H <sub>2</sub> S		52.6
		cos		13.9
		CS <sub>2</sub>		20.7
		HCN		9.63
		BZ		0.51
1 INC	VOC Incinerator	РМ	29.3	(6)
		NO <sub>x</sub>	95.2	(6)
		SO <sub>2</sub>	968.8	(6)
		СО	204.0	(6)
		VOC (5)	8.3	(6)
		H <sub>2</sub> S	8.8	(6)
		cos	2.3	(6)
		CS <sub>2</sub>	3.5	(6)
		HCN	1.5	(6)
		BZ	<0.1	(6)

1A	Waste Heat Boiler	PM	29.3	(6)
		NO <sub>x</sub>	95.2	(6)
		SO <sub>2</sub>	968.8	(6)
		СО	204.0	(6)
		VOC (5)	8.3	(6)
		H <sub>2</sub> S	8.8	(6)
		cos	2.3	(6)
		CS <sub>2</sub>	3.5	(6)
		HCN	1.5	(6)
		BZ	<0.1	(6)
2	Dryer Filter No. 1	PM	1.0	(6)
		NO <sub>x</sub>	1.2	(6)
		SO <sub>2</sub>	12.3	(6)
		VOC (5)	0.1	(6)
		СО	2.6	(6)
		H <sub>2</sub> S	0.1	(6)
		cos	<0.1	(6)
		CS <sub>2</sub>	<0.1	(6)
		HCN	<0.1	(6)
		BZ	<0.1	(6)
2a	Dryer Filter No. 2	PM	1.0	(6)
		NO <sub>x</sub>	1.2	(6)
		SO <sub>2</sub>	12.3	(6)
		VOC (5)	0.1	(6)
		СО	2.6	(6)

		H <sub>2</sub> S	0.1	(6)
		cos	<0.1	(6)
		CS <sub>2</sub>	<0.1	(6)
		HCN	<0.1	(6)
		BZ	<0.1	(6)
3	Dryer Filter No. 3	РМ	1.0	(6)
		NO <sub>x</sub>	1.2	(6)
		SO <sub>2</sub>	12.3	(6)
		VOC (5)	0.1	(6)
		со	2.6	(6)
		H <sub>2</sub> S	0.1	(6)
		cos	<0.1	(6)
		CS <sub>2</sub>	<0.1	(6)
		HCN	<0.1	(6)
		BZ	<0.1	(6)
4	Dryer Filter No. 4	PM	1.0	(6)
		NO <sub>x</sub>	67.5	(6)
		SO <sub>2</sub>	12.3	(6)
		VOC (5)	0.1	(6)
		со	2.6	(6)
		H <sub>2</sub> S	0.1	(6)
		cos	<0.1	(6)
		CS <sub>2</sub>	<0.1	(6)
		HCN	<0.1	(6)
		BZ	<0.1	(6)

9		РМ	3.0	(6)
		NO <sub>x</sub>	12.1	(6)
		SO <sub>2</sub>	123.3	(6)
		СО	26.0	(6)
		VOC (5)	1.1	(6)
		H <sub>2</sub> S	1.1	(6)
		cos	0.3	(6)
		CS <sub>2</sub>	0.4	(6)
		HCN	0.2	(6)
		BZ	<0.1	(6)
20	Carbon Black Dryer No. 1 Stack	РМ	3.0	(6)
		NO <sub>x</sub>	12.1	(6)
		SO <sub>2</sub>	111.0	(6)
		СО	26.0	(6)
		VOC (5)	1.0	(6)
		H <sub>2</sub> S	1.0	(6)
		cos	0.3	(6)
		CS <sub>2</sub>	0.4	(6)
		HCN	0.2	(6)
		BZ	<0.1	(6)
21	Carbon Black Dryer No. 2 Stack	РМ	3.0	(6)
		NO <sub>x</sub>	12.1	(6)
		SO <sub>2</sub>	111.0	(6)
		СО	26.0	(6)
		VOC (5)	1.0	(6)

I	Í			
		H <sub>2</sub> S	1.0	(6)
		cos	0.3	(6)
		CS <sub>2</sub>	0.4	(6)
		HCN	0.2	(6)
		BZ	<0.1	(6)
22	Carbon Black Dryer No. 3 Stack	PM	3.0	(6)
	Stack	NO <sub>x</sub>	12.1	(6)
		SO <sub>2</sub>	111.0	(6)
		СО	26.0	(6)
		VOC (5)	1.0	(6)
		H <sub>2</sub> S	1.0	(6)
		cos	0.3	(6)
		CS <sub>2</sub>	0.4	(6)
		HCN	0.2	(6)
		BZ	<0.1	(6)
23	Carbon Black Dryer No. 4 Stack	PM	3.0	(6)
		NO <sub>x</sub>	12.1	(6)
		SO <sub>2</sub>	111.0	(6)
		СО	26.0	(6)
		VOC (5)	1.0	(6)
		H <sub>2</sub> S	1.0	(6)
		cos	0.3	(6)
		CS <sub>2</sub>	0.4	(6)
		HCN	0.2	(6)
		BZ	<0.1	(6)

7	Rerun Line 2	PM	0.09	0.36
8	Rerun Line 1	PM	0.04	0.15
19	Packaging and Shipping	РМ	0.56	2.34
24	Rerun Line 3	PM	0.04	0.15
25	Rerun Line 3	PM	0.04	0.15
26	Packaging and Shipping	PM	0.04	0.15
27	Rerun West System	PM	0.04	0.15
28	Sealed Bin Transloading	PM	0.09	0.40
16	Fugitives	РМ	2.13	8.93
11	CBO Tank 1	voc	1.79	0.20
12	CBO Tank 2	voc	1.79	0.20
13	CBO Tank 3	voc	1.29	0.30
WG-FUG	Waste Gas System Fugitive	NO <sub>x</sub>	<0.01	<0.01
		SO <sub>2</sub>	<0.01	0.03
		со	0.41	1.72
		VOC (5)	0.02	0.10
		H <sub>2</sub> S	<0.01	0.02
		cos	<0.01	0.01
		CS <sub>2</sub>	<0.01	0.02
BLR-VENT		РМ	0.22	<0.01
		NO <sub>x</sub>	0.16	<0.01
		SO <sub>2</sub>	1.41	0.02
		со	123.43	1.85
		VOC (5)	4.99	0.04
		H <sub>2</sub> S	1.12	0.02

		cos	0.68	0.01
		CS <sub>2</sub>	0.86	0.01
		HCN	0.58	0.01
		BZ	0.03	<0.01
RX1-VENT, RX2-VENT,	Reactor Planned Startup, Combusted Natural Gas Vent	PM	0.27	0.10
RX4-VENT, RX5-VENT, and	to Atmosphere - MSS (8)	NO <sub>x</sub>	3.60	1.30
RX6/7-VENT		SO <sub>2</sub>	0.02	0.01
		со	3.02	1.09
		voc	0.20	0.07
L1-VENT, L2-VENT, and	Unit Bagfilter Planned Startup, Combusted Natural Gas Vent	РМ	0.27	0.10
L3-VENT		NO <sub>x</sub>	3.60	1.30
		SO <sub>2</sub>	0.02	0.01
		со	3.02	1.09
		voc	0.20	0.07
BAGFILTFUG	Bagfilter Changeout Fugitives - MSS (9)	РМ	0.57	0.01
BRICKFUG	Re-bricking Fugitives - MSS (10)	РМ	2.10	0.05

- (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<sub>x</sub> total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - 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
  - PM<sub>2.5</sub> particulate matter equal to or less than 2.5 microns in diameter
  - CO carbon monoxide
    H<sub>2</sub>S hydrogen sulfide
    COS carbonyl sulfide
    CS<sub>2</sub> carbon disulfide
    HCN hydrogen cyanide

#### Permit Numbers 9403B and PSDTX627M2 Page 8

#### Emission Sources - Maximum Allowable Emission Rates

BZ - benzene

MSS - planned maintenance, startup, and shutdown

EPN - emission point number

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period and a maximum operating schedule of 8400 hours per year.
- (5) VOC includes (but is not limited to) acetylene, COS, CS<sub>2</sub>, HCN, and BZ.
- (6) Annual emissions are regulated under the waste gas combustion annual emissions cap, WG-CAP
- (7) MSS emissions from Cogen Boiler startup do not occur simultaneously with production emissions from the boiler and are captured by EPN 1A.
- (8) Startup and shutdown emissions of products of natural gas combustion are captured in the emission rates for EPNs 1 INC and WG-CAP.
- (9) PM emissions from bagfilter changeouts do not occur simultaneously with production emissions from the corresponding unit and are captured by EPNs 1 INC and WG-CAP.
- (10)PM emissions from re-bricking are captured by EPNs 1 INC and WG-CAP. Production rates will be reduced to stay within the PM emission limits.

Date:	