## Permit Number 107939, PSDTX1342, N176

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	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
No. (1)			lbs/hour	TPY (4)
PDH-H101	PDH Heater H101	СО	4.94	21.64
		VOC	0.10	0.44
		NOx	0.81	3.55
		SO2	0.05	0.22
		PM	0.63	2.78
		PM10	0.63	2.78
		PM2.5	0.63	2.78
		NH3	0.60	2.63
PDH-H102	PDH Heater H102	СО	5.28	23.13
		VOC	0.11	0.47
		NOx	0.87	3.80
		SO2	0.05	0.23
		PM	0.68	2.97
		PM10	0.68	2.97
		PM2.5	0.68	2.97
		NH3	0.64	2.81
PDH-H103	PDH Heater H103	СО	3.75	16.41
		VOC	0.08	0.33
		NOx	0.62	2.70
		SO2	0.04	0.17
		PM	0.48	2.11
		PM10	0.48	2.11
		PM2.5	0.48	2.11
		NH3	0.46	1.99

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PDH-H104	PDH Heater H104	СО	3.07	13.43
7 311 1120 1		VOC	0.06	0.27
		NOx	0.50	2.21
		SO2	0.03	0.14
	_	PM	0.39	1.73
	_	PM10	0.39	1.73
	_	PM2.5	0.39	1.73
		NH3	0.37	1.63
PDH-H201	PDH Heater H201	СО	4.94	21.64
		VOC	0.10	0.44
		NOx	0.81	3.55
		SO2	0.05	0.22
		PM	0.63	2.78
		PM10	0.63	2.78
		PM2.5	0.63	2.78
		NH3	0.60	2.63
PDH-H202	PDH Heater H202	СО	5.28	23.13
		VOC	0.11	0.47
		NOx	0.87	3.80
		SO2	0.05	0.23
		PM	0.68	2.97
		PM10	0.68	2.97
		PM2.5	0.68	2.97
		NH3	0.64	2.81
PDH-H203	PDH Heater H203	СО	3.75	16.41
		VOC	0.08	0.33
		NOx	0.62	2.70

		SO2	0.04	0.17
		PM	0.48	2.11
		PM10	0.48	2.11
		PM2.5	0.48	2.11
		NH3	0.46	1.99
PDH-H204	PDH Heater H204	СО	3.07	13.43
		VOC	0.06	0.27
		NOx	0.50	2.21
		SO2	0.03	0.14
		PM	0.39	1.73
		PM10	0.39	1.73
		PM2.5	0.39	1.73
		NH3	0.37	1.63
PDH-Boilers	PDH Boiler 1	СО	39.33	172.77
	PDH Boiler 2	VOC	1.48	3.05
		NOx	6.46	28.30
		SO2	0.75	1.53
		PM	9.45	19.41
		PM10	9.45	19.41
		PM2.5	9.45	19.41
		NH3	4.78	20.92
CCR-1	CCR-1 Vent	SO2	0.11	0.48
		HCI	0.02	0.10
		Cl2	0.01	0.05
CCR-2	CCR-2 Vent	SO2	0.11	0.48
		HCI	0.02	0.10
		Cl2	0.01	0.05
PDH-FUG	PDH Unit Fugitives (5)	VOC	0.48	2.08
DMDSLOAD	DMDS Unloading Fugitives	VOC	0.23	<0.01

SOLVENTLOAD	Solvent Loading/Unloading Fugitives	VOC	0.03	<0.01
DEC3LOAD	DEC3 Heavies Loading Fugitives	VOC	0.59	0.04
PDH-Flare	PDH Unit Flare (6)	СО	0.70	0.24
		VOC	2.26	0.16
		NOx	0.14	0.05
		SO2	<0.01	<0.01
PDH-CT	PDH Cooling Tower	VOC	4.00	8.77
		PM	1.75	7.67
		PM10	1.75	7.67
		PM2.5	0.67	2.92
PDH MSS-C	PDH MSS Controlled	СО	130.58	1.87
		VOC	99.00	1.38
		SO2	0.37	<0.01
		NOx	25.63	0.37
		PM	4.68	0.01
		PM10	4.68	0.01
		PM2.5	4.68	0.01
PDH MSS-U	PDH MSS Uncontrolled	VOC	2860.98	1.55

(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

HCI - hydrochloric acid

- ammonia  $NH_3$ 

 $NO_x$ - total oxides of nitrogen

 $SO_2$ - sulfur dioxide

PM- total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

- total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as  $PM_{10}$ represented

- particulate matter equal to or less than 2.5 microns in diameter  $PM_{2.5}$ 

- carbon monoxide CO

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Multiple sources routed to EPN PDH-Flare; see FIN list for this EPN at Table 1(a) in application submittal updates received June 2013.

	Date:	April 21, 2014
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