# Permit Number 37979 and N009

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)		Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (7)
BOIL-Y1801	30-Barg Boiler	NO <sub>x</sub>	1.99	8.72
		SO <sub>2</sub>	0.29	1.28
		СО	13.93	30.51
		PM	1.54	6.76
		PM <sub>10</sub>	1.54	6.76
		PM <sub>2.5</sub>	1.54	6.76
		VOC	1.09	4.79
		NH <sub>3</sub>	0.92	4.01
	Boiler startup	NO <sub>x</sub> (8)	20.00	-
		CO (8)	41.79	-
CTWR-1701	Cooling Tower	PM	0.12	0.53
		PM <sub>10</sub>	0.12	0.53
		PM <sub>2.5</sub>	0.12	0.53
		voc	1.26	5.52
LOAD-FUG	Tank Truck Loading Losses	voc	0.08	0.02
		Organic HAPs	0.08	0.02
OSBL-FUG	Fugitives (4)	voc	0.73	3.20
		HAPs	0.49	2.12
		NH <sub>3</sub>	0.01	0.06
V-1609	H₂SO₄ Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
TK1614	Neutralization Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
THOX-Y1907	OSBL Thermal Oxidizer	NO <sub>x</sub>	1.00	4.38
		SO <sub>2</sub>	3.46	15.16
		СО	1.10	4.82

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		PM	1.23	5.39
		PM <sub>10</sub>	1.23	5.39
		PM <sub>2.5</sub>	1.23	5.39
		VOC	5.96	0.62
		Organic HAPs	1.73	0.11
	OSBL Thermal	NO <sub>x</sub> (8)	3.00	-
	Oxidizer Startup	CO (8)	3.30	-
FIRE-PUMPS	Firewater Pumps	NO <sub>x</sub>	23.25	2.56
		СО	5.01	0.55
		SO <sub>2</sub>	1.54	0.17
		PM	1.65	0.18
		PM <sub>10</sub>	1.65	0.18
		PM <sub>2.5</sub>	1.65	0.18
		VOC	1.89	0.21
DIESEL-TNK	Diesel Fuel Storage Tanks	voc	0.02	0.01
GAS-TK	Gasoline Storage Tank	voc	4.15	0.02
DIESEL-TK2	Diesel Storage Tank	voc	0.74	0.02
LUBE-TK	Lube Oil Storage Tank	voc	0.14	0.01
TK-1703	Tank 1703	VOC	0.09	0.01
AA-FUG	AA Fugitives (4)	Total VOC (5)	2.08	9.10
		Total HAPs	1.70	7.45
		Hydrazine Hydrate	0.15	0.65
		СО	0.01	0.01

THOX-Y1170	AA Thermal Oxidizer	Total VOC (5)	5.96	23.02
	(6)	Total HAPs	1.72	6.51
		NO <sub>x</sub>	13.51	43.93
		SO <sub>2</sub>	2.20	9.64
		СО	15.87	50.24
		РМ	14.17	52.12
		PM <sub>10</sub>	14.17	52.12
		PM <sub>2.5</sub>	14.17	52.12
	AA Thermal Oxidizer Startup (6)	NO <sub>x</sub> (8)	40.53	-
		CO (8)	47.61	-
SK-1186	AA Thermal Oxidizer	Total VOC (5)	5.82	23.02
	(HRSG Stack) (7)	Total HAPs	1.72	6.53
		NO <sub>x</sub>	13.51	43.93
		SO <sub>2</sub>	2.20	9.64
		СО	15.87	50.24
		PM	14.17	52.12
		PM <sub>10</sub>	14.17	52.12
		PM <sub>2.5</sub>	14.17	52.12
	AA Thermal Oxidizer	NO <sub>x</sub> (8)	40.53	-
	Startup. (HRSG Stack) (6)	CO (8)	47.61	-
AA-MATL	Material Handling	PM/PM <sub>10</sub>	0.78	0.06
DEGREASE-1	Degreaser	VOC	0.01	0.01
WASH-PAD	Wash Pad	VOC	0.26	0.12
		Organic HAPs	0.26	0.12
AA-MNTC	Maintenance Activities	Total VOC	19.47	1.09
		NO <sub>x</sub>	0.04	0.01
		СО	0.04	0.01

Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan. Specific point source name. For fugitive sources use area name or fugitive source name. (1)

NH<sub>3</sub> - ammonia Project Number: 235170

<sup>(2)</sup> (3) volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1 VOC

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

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

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

HAP - hazardous air pollutants

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The total VOC emissions include propylene and organic HAPs.
- (6) Emissions represent total combined emission rates from EPNs THOX-Y1170 and SK1186.
- (7) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (8) Annual emissions from MSS activities (startup) are included in annual limits for the respective production EPNs.

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