Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 164137 and PSDTX1594

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)
STCK01	Fired Process Heater - Natural Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NO_X (MSS)	6.71	-
		CO	13.78	-
		SO_2	0.81	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK01	Fired Process Heater – Fuel Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NO_X (MSS)	8.95	-
		CO	13.78	-
		SO_2	0.84	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK01	Fired Process Heater – Annual Emissions	VOC	-	8.81
		PM	-	12.17
		PM_{10}	-	12.17
		$PM_{2.5}$	-	12.17

Emission Sources - Maximum Allowable Emission Rates

		NO_X	-	16.48
		CO	-	60.37
		SO_2	-	3.68
		NH_3	-	7.33
		Pb	-	<0.01
		HAPs	-	3.50
STCK02	Fired Steam Superheater – Natural Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	6.97	-
		CO	14.32	-
		SO_2	0.84	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK02	Fired Steam Superheater – Fuel Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	9.30	-
		CO	14.32	-
		SO_2	0.87	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK02	Fired Steam Superheater – Annual Emissions	VOC	-	9.15
		PM	-	12.64
		PM_{10}	-	12.64

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	-	12.64
		NO_X	-	17.11
		CO	-	62.71
		SO_2	-	3.82
		NH_3	-	7.61
		Pb	-	<0.01
		HAPs	-	3.64
STCK03	Gasoline Splitter Reboiler – Natural Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.12	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK03	Gasoline Splitter Reboiler – Fuel Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.49	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK03	Gasoline Splitter Reboiler – Annual Emissions	VOC	-	0.88
		PM	-	1.22
		PM_{10}	-	1.22
		$PM_{2.5}$	-	1.22
		NO_X	-	6.55
		CO	-	6.05

Emission Sources - Maximum Allowable Emission Rates

		SO_2	-	0.37
		Pb	-	<0.01
		HAPs	-	0.35
STCK04	Gasoline Loop SU Heater	VOC	0.32	0.69
		PM	0.44	0.96
		PM_{10}	0.44	0.96
		$PM_{2.5}$	0.44	0.96
		NO_X	1.76	3.86
		CO	2.17	4.75
		SO_2	0.13	0.27
		Pb	<0.01	<0.01
		HAPs	-	0.24
STCK05	Regeneration Heater A	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK06	Regeneration Heater B	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs	-	0.10
STCK07	Fired Process Heater - Natural Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	6.71	-
		CO	13.78	-
		SO_2	0.81	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK07	Fired Process Heater - Fuel Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	8.95	-
		CO	13.78	-
		SO_2	0.84	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK07	Fired Process Heater – Annual Emissions	VOC	-	8.81
		PM	-	12.17
		PM_{10}	-	12.17
		$PM_{2.5}$	-	12.17
		NO_X	-	16.48
		CO	-	60.37
		SO_2	-	3.68
		NH_3	-	7.33

Emission Sources - Maximum Allowable Emission Rates

		Pb	-	<0.01
		HAPs	-	3.50
STCK08	Fired Steam Superheater – Natural Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	6.97	-
		CO	14.32	-
		SO_2	0.84	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK08	Fired Steam Superheater – Fuel Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	9.30	-
		CO	14.32	-
		SO_2	0.87	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK08	Fired Steam Superheater – Annual Emissions	VOC	-	9.15
		PM	-	12.64
		PM_{10}	-	12.64
		$PM_{2.5}$	-	12.64
		NO_X	-	17.11
		CO	-	62.71
		SO_2	-	3.82

Emission Sources - Maximum Allowable Emission Rates

		NH_3	-	7.61
		Pb	-	<0.01
		HAPs	-	3.64
STCK09	Gasoline Splitter Reboiler – Natural Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.12	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK09	Gasoline Splitter Reboiler – Fuel Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.49	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK09	Gasoline Splitter Reboiler – Annual Emissions	VOC	-	0.88
		PM	-	1.22
		PM_{10}	-	1.22
		$PM_{2.5}$	-	1.22
		NO_X	-	6.55
		CO	-	6.05
		SO_2	-	0.37
		Pb	-	<0.01
		HAPs	-	0.35
STCK10	Gasoline Loop SU Heater	VOC	0.32	0.69

Emission Sources - Maximum Allowable Emission Rates

		PM	0.44	0.96
		PM_{10}	0.44	0.96
		$PM_{2.5}$	0.44	0.96
		NO_X	1.76	3.86
		CO	2.17	4.75
		SO_2	0.13	0.27
		Pb	<0.01	<0.01
		HAPs	-	0.24
STCK11	Regeneration Heater A	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK12	Regeneration Heater B	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK13	Fired Process Heater - Natural Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	6.71	-
		CO	13.78	-
		SO_2	0.81	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK13	Fired Process Heater - Fuel Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	8.95	-
		CO	13.78	-
		SO_2	0.84	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK13	Fired Process Heater – Annual Emissions	VOC	-	8.81
		PM	-	12.17
		PM_{10}	-	12.17
		$PM_{2.5}$	-	12.17
		NO_X	--	16.48
		CO	-	60.37
		SO_2	-	3.68
		NH_3	-	7.33
		Pb	-	<0.01
		HAPs	-	3.50
STCK14	Fired Steam Superheater – Natural Gas	VOC	2.09	-
		PM	2.89	-

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	6.97	-
		CO	14.32	-
		SO_2	0.84	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK14	Fired Steam Superheater – Fuel Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	9.30	-
		CO	14.32	-
		SO_2	0.87	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK14	Fired Steam Superheater – Annual Emissions	VOC	-	9.15
		PM	-	12.64
		PM_{10}	-	12.64
		$PM_{2.5}$	-	12.64
		NO_X	-	17.11
		CO	-	62.71
		SO_2	-	3.82
		NH_3	-	7.61
		Pb	-	<0.01
		HAPs	-	3.64
STCK15	Gasoline Splitter Reboiler – Natural Gas	VOC	0.20	-

Emission Sources - Maximum Allowable Emission Rates

		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.12	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK15	Gasoline Splitter Reboiler – Fuel Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.49	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK15	Gasoline Splitter Reboiler – Annual Emissions	VOC	-	0.88
		PM	-	1.22
		PM_{10}	-	1.22
		$PM_{2.5}$	-	1.22
		NO_X	-	6.55
		CO	-	6.05
		SO_2	-	0.37
		Pb	-	<0.01
		HAPs	-	0.35
STCK16	Gasoline Loop SU Heater	VOC	0.32	0.69
		PM	0.44	0.96
		PM_{10}	0.44	0.96
		$PM_{2.5}$	0.44	0.96
		NO_X	1.76	3.86

Emission Sources - Maximum Allowable Emission Rates

		CO	2.17	4.75
		SO_2	0.13	0.27
		Pb	<0.01	<0.01
		HAPs	-	0.24
STCK17	Regeneration Heater A	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK18	Regeneration Heater B	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK19	Fired Process Heater - Natural Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	6.71	-
		CO	13.78	-

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.81	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK19	Fired Process Heater - Fuel Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	8.95	-
		CO	13.78	-
		SO_2	0.84	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK19	Fired Process Heater – Annual Emissions	VOC	-	8.81
		PM	-	12.17
		PM_{10}	-	12.17
		$PM_{2.5}$	-	12.17
		NO_X	-	16.48
		CO	-	60.37
		SO_2	-	3.68
		NH_3	-	7.33
		Pb	-	<0.01
		HAPs	-	3.50
STCK20	Fired Steam Superheater – Natural Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	6.97	-

Emission Sources - Maximum Allowable Emission Rates

		CO	14.32	-
		SO_2	0.84	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK20	Fired Steam Superheater – Fuel Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	9.30	-
		CO	14.32	-
		SO_2	0.87	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK20	Fired Steam Superheater – Annual Emissions	VOC	-	9.15
		PM	-	12.64
		PM_{10}	-	12.64
		$PM_{2.5}$	-	12.64
		NO_X	-	17.11
		CO	-	62.71
		SO_2	-	3.82
		NH_3	-	7.61
		Pb	-	<0.01
		HAPs	-	3.64
STCK21	Gasoline Splitter Reboiler – Natural Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.12	-

Emission Sources - Maximum Allowable Emission Rates

		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK21	Gasoline Splitter Reboiler – Fuel Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.49	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK21	Gasoline Splitter Reboiler – Annual Emissions	VOC	-	0.88
		PM	-	1.22
		PM_{10}	-	1.22
		$PM_{2.5}$	-	1.22
		NO_X	-	6.55
		CO	-	6.05
		SO_2	-	0.37
		Pb	-	<0.01
		HAPs	-	0.35
STCK22	Gasoline Loop SU Heater	VOC	0.32	0.69
		PM	0.44	0.96
		PM_{10}	0.44	0.96
		$PM_{2.5}$	0.44	0.96
		NO_X	1.76	3.86
		CO	2.17	4.75
		SO_2	0.13	0.27
		Pb	<0.01	<0.01
		HAPs	-	0.24

Emission Sources - Maximum Allowable Emission Rates

STCK23	Regeneration Heater A	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK24	Regeneration Heater B	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK25	Fired Process Heater - Natural Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	6.71	-
		CO	13.78	-
		SO_2	0.81	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK25	Fired Process Heater - Fuel Gas	VOC	2.01	-

Emission Sources - Maximum Allowable Emission Rates

		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	8.95	-
		CO	13.78	-
		SO_2	0.84	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK25	Fired Process Heater – Annual Emissions	VOC	-	8.81
		PM	-	12.17
		PM_{10}	-	12.17
		$PM_{2.5}$	-	12.17
		NO_X	-	16.48
		CO	-	60.37
		SO_2	-	3.68
		NH_3	-	7.33
		Pb	-	<0.01
		HAPs	-	3.50
STCK26	Fired Steam Superheater – Natural Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	6.97	-
		CO	14.32	-
		SO_2	0.84	-
		NH_3	1.74	-
		Pb	<0.01	-

Emission Sources - Maximum Allowable Emission Rates

STCK26	Fired Steam Superheater – Fuel Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	9.30	-
		CO	14.32	-
		SO_2	0.87	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK26	Fired Steam Superheater – Annual Emissions	VOC	-	9.15
		PM	-	12.64
		PM_{10}	-	12.64
		$PM_{2.5}$	-	12.64
		NO_X	-	17.11
		CO	-	62.71
		SO_2	-	3.82
		NH_3	-	7.61
		Pb	-	<0.01
		HAPs	-	3.64
STCK27	Gasoline Splitter Reboiler – Natural Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.12	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK27	Gasoline Splitter Reboiler – Fuel Gas	VOC	0.20	-

Emission Sources - Maximum Allowable Emission Rates

		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.49	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK27	Gasoline Splitter Reboiler – Annual Emissions	VOC	-	0.88
		PM	-	1.22
		PM10	-	1.22
		PM2.5	-	1.22
		NOX	-	6.55
		CO	-	6.05
		SO2	-	0.37
		Pb	-	<0.01
		HAPs	-	0.35
STCK28	Gasoline Loop SU Heater	VOC	0.32	0.69
		PM	0.44	0.96
		PM_{10}	0.44	0.96
		$PM_{2.5}$	0.44	0.96
		NO_X	1.76	3.86
		CO	2.17	4.75
		SO_2	0.13	0.27
		Pb	<0.01	<0.01
		HAPs	-	0.24
STCK29	Regeneration Heater A	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39

Emission Sources - Maximum Allowable Emission Rates

		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK30	Regeneration Heater B	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK31	Fired Process Heater - Natural Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-
		NOX (MSS)	6.71	-
		CO	13.78	-
		SO_2	0.81	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK31	Fired Process Heater - Fuel Gas	VOC	2.01	-
		PM	2.78	-
		PM_{10}	2.78	-
		$PM_{2.5}$	2.78	-
		NO_X	5.59	-

Emission Sources - Maximum Allowable Emission Rates

		NOX (MSS)	8.95	-
		CO	13.78	-
		SO_2	0.84	-
		NH_3	1.67	-
		Pb	<0.01	-
STCK31	Fired Process Heater – Annual Emissions	VOC	-	8.81
		PM	-	12.17
		PM_{10}	-	12.17
		$PM_{2.5}$	-	12.17
		NO_X	-	16.48
		CO	-	60.37
		SO_2	-	3.68
		NH_3	-	7.33
		Pb	-	<0.01
		HAPs	-	3.50
STCK32	Fired Steam Superheater – Natural Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-
		NO_X	5.81	-
		NOX (MSS)	6.97	-
		CO	14.32	-
		SO_2	0.84	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK32	Fired Steam Superheater – Fuel Gas	VOC	2.09	-
		PM	2.89	-
		PM_{10}	2.89	-
		$PM_{2.5}$	2.89	-

Emission Sources - Maximum Allowable Emission Rates

		NO_X	5.81	-
		NOX (MSS)	9.30	-
		CO	14.32	-
		SO_2	0.87	-
		NH_3	1.74	-
		Pb	<0.01	-
STCK32	Fired Steam Superheater – Annual Emissions	VOC	-	9.15
		PM	-	12.64
		PM_{10}	-	12.64
		$PM_{2.5}$	-	12.64
		NO_X	-	17.11
		CO	-	62.71
		SO_2	-	3.82
		NH_3	-	7.61
		Pb	-	<0.01
		HAPs	-	3.64
STCK33	Gasoline Splitter Reboiler – Natural Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.12	-
		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK33	Gasoline Splitter Reboiler – Fuel Gas	VOC	0.20	-
		PM	0.28	-
		PM_{10}	0.28	-
		$PM_{2.5}$	0.28	-
		NO_X	1.49	-

Emission Sources - Maximum Allowable Emission Rates

		CO	1.38	-
		SO_2	0.08	-
		Pb	<0.01	-
STCK33	Gasoline Splitter Reboiler – Annual Emissions	VOC	-	0.88
		PM	-	1.22
		PM_{10}	-	1.22
		$PM_{2.5}$	-	1.22
		NO_X	-	6.55
		CO	-	6.05
		SO_2	-	0.37
		Pb	-	<0.01
		HAPs	-	0.35
STCK34	Gasoline Loop SU Heater	VOC	0.32	0.69
		PM	0.44	0.96
		PM_{10}	0.44	0.96
		$PM_{2.5}$	0.44	0.96
		NO_X	1.76	3.86
		CO	2.17	4.75
		SO_2	0.13	0.27
		Pb	<0.01	<0.01
		HAPs	-	0.24
STCK35	Regeneration Heater A	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs	-	0.10
STCK36	Regeneration Heater B	VOC	0.06	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		NO_X	0.36	1.56
		CO	0.44	1.93
		SO_2	0.03	0.11
		Pb	<0.01	<0.01
		HAPs	-	0.10
STCK37	HGU Tubular Reformer – Natural Gas	VOC	1.97	-
		PM	2.72	-
		PM_{10}	2.72	-
		$PM_{2.5}$	2.72	-
		NO_X	5.48	-
		NOX (MSS)	6.58	-
		CO	13.51	-
		SO_2	0.79	-
		NH_3	1.64	-
		Pb	<0.01	-
STCK37	HGU Tubular Reformer – Fuel Gas	VOC	1.97	-
		PM	2.72	-
		PM_{10}	2.72	-
		$PM_{2.5}$	2.72	-
		NO_X	5.48	-
		NOX (MSS)	9.87	-
		CO	13.51	-
		SO_2	-	-
		NH_3	1.64	-

Emission Sources - Maximum Allowable Emission Rates

		Pb	<0.01	-
STCK37	HGU Tubular Reformer – Annual Emissions	VOC	-	8.63
		PM	-	11.93
		PM_{10}	-	11.93
		$PM_{2.5}$	-	11.93
		NO_X	-	16.18
		CO	-	59.16
		SO_2	-	3.46
		NH_3	-	7.18
		Pb	-	<0.01
		HAPs	-	2.96
STCK38	Cooling Tower T1/T2 Cell 1	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK39	Cooling Tower T1/T2 Cell 2	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK40	Cooling Tower T1/T2 Cell 3	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK41	Cooling Tower T1/T2 Cell 4	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK42	Cooling Tower T1/T2 Cell 5	VOC	5.02	2.20
		PM	0.31	1.37

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK43	Cooling Tower T1/T2 Cell 6	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK44	Cooling Tower T3/T4 Cell 1	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK45	Cooling Tower T3/T4 Cell 2	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK46	Cooling Tower T3/T4 Cell 3	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK47	Cooling Tower T3/T4 Cell 4	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK48	Cooling Tower T3/T4 Cell 5	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK49	Cooling Tower T3/T4 Cell 6	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
STCK50	Cooling Tower T5/T6 Cell 1	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK51	Cooling Tower T5/T6 Cell 2	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK52	Cooling Tower T5/T6 Cell 3	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK53	Cooling Tower T5/T6 Cell 4	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK54	Cooling Tower T5/T6 Cell 5	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK55	Cooling Tower T5/T6 Cell 6	VOC	5.02	2.20
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
STCK56	Auxiliary Boiler T1/T2 - Natural Gas	VOC	1.82	-
		PM	2.51	-
		PM_{10}	2.51	-
		$PM_{2.5}$	2.51	-

Emission Sources - Maximum Allowable Emission Rates

		NO_X	5.05	-
		NOX (MSS)	6.06	-
		CO	12.45	-
		SO_2	0.73	-
		NH_3	1.51	-
		Pb	<0.01	-
STCK56	Auxiliary Boiler T1/T2 - Fuel Gas	VOC	1.82	-
		PM	2.51	-
		PM_{10}	2.51	-
		$PM_{2.5}$	2.51	-
		NO_X	5.05	-
		NOX (MSS)	8.09	-
		CO	12.45	-
		SO_2	0.74	-
		NH_3	1.51	-
		Pb	<0.01	-
STCK56	Auxiliary Boiler T1/T2 – Annual Emissions	VOC	-	7.96
		PM	-	10.99
		PM_{10}	-	10.99
		$PM_{2.5}$	-	10.99
		NO_X	-	14.88
		CO	-	54.53
		SO_2	-	3.25
		NH_3	-	6.62
		Pb	-	<0.01
		HAPs	-	3.01
STCK57	Auxiliary Boiler T3/T4 - Natural Gas	VOC	1.82	-
		PM	2.51	-
		PM_{10}	2.51	-

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	2.51	-
		NO_X	5.05	-
		NOX (MSS)	6.06	-
		CO	12.45	-
		SO_2	0.73	-
		NH_3	1.51	-
		Pb	<0.01	-
STCK57	Auxiliary Boiler T3/T4 - Fuel Gas	VOC	1.82	-
		PM	2.51	-
		PM_{10}	2.51	-
		$PM_{2.5}$	2.51	-
		NO_X	5.05	-
		NOX (MSS)	8.09	-
		CO	12.45	-
		SO_2	0.74	-
		NH_3	1.51	
		Pb	<0.01	-
STCK57	Auxiliary Boiler T3/T4 – Annual Emissions	VOC	-	7.96
		PM	-	10.99
		PM_{10}	-	10.99
		$PM_{2.5}$	-	10.99
		NOX	-	14.88
		CO	-	54.53
		SO_2	-	3.25
		NH_3	-	6.62
		Pb	-	<0.01
		HAPs	-	3.01
STCK58	Auxiliary Boiler T5/T6 - Natural Gas	VOC	1.82	-
		PM	2.51	-

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	2.51	-
		$PM_{2.5}$	2.51	-
		NO_X	5.05	-
		NOX (MSS)	6.06	-
		CO	12.45	-
		SO_2	0.73	-
		NH_3	1.51	-
		Pb	<0.01	-
STCK58	Auxiliary Boiler T5/T6 - Fuel Gas	VOC	1.82	-
		PM	2.51	-
		PM_{10}	2.51	-
		$PM_{2.5}$	2.51	-
		NO_X	5.05	-
		NOX (MSS)	8.09	-
		CO	12.45	-
		SO_2	0.74	-
		NH_3	1.51	-
		Pb	<0.01	-
STCK58	Auxiliary Boiler T5/T6 – Annual Emissions	VOC	-	7.96
		PM	-	10.99
		PM_{10}	-	10.99
		$PM_{2.5}$	-	10.99
		NO_X	-	14.88
		CO	-	54.53
		SO_2	-	3.25
		NH_3	-	6.62
		Pb	-	<0.01
		HAPs	-	3.01
STCK59	Loading/Unloading VCU	VOC	35.46	155.32

Emission Sources - Maximum Allowable Emission Rates

		PM	0.59	2.59
		PM_{10}	0.59	2.59
		$PM_{2.5}$	0.59	2.59
		NO_X	7.78	34.07
		CO	6.53	28.62
		SO_2	0.17	0.75
		Pb	<0.01	<0.01
		HAPs	-	4.24
STCK60	Isomerization Heater T1/T2 - Natural Gas	VOC	0.02	-
		PM	0.03	-
		PM_{10}	0.03	-
		$PM_{2.5}$	0.03	-
		NO_X	0.11	-
		CO	0.14	-
		SO_2	0.01	-
		Pb	<0.01	-
STCK60	Isomerization Heater T1/T2 - Fuel Gas	VOC	0.02	-
		PM	0.03	-
		PM_{10}	0.03	-
		$PM_{2.5}$	0.03	-
		NO_X	0.15	-
		CO	0.14	-
		SO_2	0.01	-
		Pb	<0.01	-
STCK60	Isomerization Heater T1/T2 – Annual Emissions	VOC	-	0.09
		PM	-	0.12
		PM_{10}	-	0.12
		$PM_{2.5}$	-	0.12
		NO_X	-	0.67

Emission Sources - Maximum Allowable Emission Rates

		CO	-	0.62
		SO_2	-	0.04
		Pb	-	<0.01
		HAPs	-	0.04
STCK61	Hydrocracker Heater T1/T2 - Natural Gas	VOC	0.04	-
		PM	0.05	-
		PM_{10}	0.05	-
		$PM_{2.5}$	0.05	-
		NO_X	0.20	-
		CO	0.25	-
		SO_2	0.01	-
		Pb	<0.01	-
STCK61	Hydrocracker Heater T1/T2 - Fuel Gas	VOC	0.04	-
		PM	0.05	-
		PM_{10}	0.05	-
		$PM_{2.5}$	0.05	-
		NO_X	0.27	-
		CO	0.25	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK61	Hydrocracker Heater T1/T2 – Annual Emissions	VOC	-	0.16
		PM	-	0.22
		PM_{10}	-	0.22
		$PM_{2.5}$	-	0.22
		NO_X	-	1.19
		CO	-	1.10
		SO_2	-	0.07
		Pb	-	<0.01
		HAPs	-	0.06

Emission Sources - Maximum Allowable Emission Rates

STCK62	Iso. Eff. Stabilizer Reboiler T1/T2 - Natural Gas	VOC	0.05	-
		PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_X	0.29	-
		CO	0.36	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK62	Iso. Eff. Stabilizer Reboiler T1/T2 - Fuel Gas	VOC	0.05	-
		PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_X	0.39	-
		CO	0.36	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK62	Iso. Eff. Stabilizer Reboiler T1/T2 – Annual Emissions	VOC	-	0.23
		PM	-	0.32
		PM_{10}	-	0.32
		$PM_{2.5}$	-	0.32
		NO_X	-	1.72
		CO	-	1.59
		SO_2	-	0.10
		Pb	-	<0.01
		HAPs	-	0.09
STCK63	Isomerization Heater T3/T4 - Natural Gas	VOC	0.02	-
		PM	0.03	-
		PM_{10}	0.03	-
		$PM_{2.5}$	0.03	-

Emission Sources - Maximum Allowable Emission Rates

		NO_X	0.11	-
		CO	0.14	-
		SO_2	0.01	-
		Pb	<0.01	-
STCK63	Isomerization Heater T3/T4 - Fuel Gas	VOC	0.02	-
		PM	0.03	-
		PM_{10}	0.03	-
		$PM_{2.5}$	0.03	-
		NO_X	0.15	-
		CO	0.14	-
		SO_2	0.01	-
		Pb	<0.01	-
STCK63	Isomerization Heater T3/T4 – Annual Emissions	VOC	-	0.09
		PM	-	0.12
		PM_{10}	-	0.12
		$PM_{2.5}$	-	0.12
		NO_X	-	0.67
		CO	-	0.62
		SO_2	-	0.04
		Pb	-	<0.01
		HAPs	-	0.04
STCK64	Hydrocracker Heater T3/T4 - Natural Gas	VOC	0.04	-
		PM	0.05	-
		PM_{10}	0.05	-
		$PM_{2.5}$	0.05	-
		NO_X	0.20	-
		CO	0.25	-
		SO_2	0.01	-
		Pb	<0.01	-

Emission Sources - Maximum Allowable Emission Rates

STCK64	Hydrocracker Heater T3/T4 - Fuel Gas	VOC	0.04	-
		PM	0.05	-
		PM_{10}	0.05	-
		$PM_{2.5}$	0.05	-
		NO_X	0.27	-
		CO	0.25	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK64	Hydrocracker Heater T3/T4 – Annual Emissions	VOC	-	0.16
		PM	-	0.22
		PM_{10}	-	0.22
		$PM_{2.5}$	-	0.22
		NO_X	-	1.19
		CO	-	1.10
		SO_2	-	0.07
		Pb	-	<0.01
		HAPs	-	0.06
STCK65	Iso. Eff. Stabilizer Reboiler T3/T4 - Natural Gas	VOC	0.05	-
		PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_X	0.29	-
		CO	0.36	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK65	Iso. Eff. Stabilizer Reboiler T3/T4 - Fuel Gas	VOC	0.05	-
		PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-

Emission Sources - Maximum Allowable Emission Rates

		NO_X	0.39	-
		CO	0.36	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK65	Iso. Eff. Stabilizer Reboiler T3/T4 – Annual Emissions	VOC	-	0.23
		PM	-	0.32
		PM_{10}	-	0.32
		$PM_{2.5}$	-	0.32
		NO_X	-	1.72
		CO	-	1.59
		SO_2	-	0.10
		Pb	-	<0.01
		HAPs	-	0.09
STCK66	Isomerization Heater T5/T6 - Natural Gas	VOC	0.02	-
		PM	0.03	-
		PM_{10}	0.03	-
		$PM_{2.5}$	0.03	-
		NO_X	0.11	-
		CO	0.14	-
		Pb	<0.01	-
		SO_2	0.01	-
STCK66	Isomerization Heater T5/T6 - Fuel Gas	VOC	0.02	-
		PM	0.03	-
		PM_{10}	0.03	-
		$PM_{2.5}$	0.03	-
		NO_X	0.15	-
		CO	0.14	-
		Pb	<0.01	-
		SO_2	0.01	-

Emission Sources - Maximum Allowable Emission Rates

STCK66	Isomerization Heater T5/T6 – Annual Emissions	VOC	-	0.09
		PM	-	0.12
		PM_{10}	-	0.12
		$PM_{2.5}$	-	0.12
		NO_X	-	0.67
		CO	-	0.62
		SO_2	-	0.04
		Pb	-	<0.01
		HAPs	-	0.04
STCK67	Hydrocracker Heater T5/T6 - Natural Gas	VOC	0.04	-
		PM	0.05	-
		PM_{10}	0.05	-
		$PM_{2.5}$	0.05	-
		NO_X	0.20	-
		CO	0.25	-
		SO_2	0.01	-
		Pb	<0.01	-
STCK67	Hydrocracker Heater T5/T6 - Fuel Gas	VOC	0.04	-
		PM	0.05	-
		PM_{10}	0.05	-
		$PM_{2.5}$	0.05	-
		NO_X	0.27	-
		CO	0.25	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK67	Hydrocracker Heater T5/T6 – Annual Emissions	VOC	-	0.16
		PM	-	0.22
		PM_{10}	-	0.22
		$PM_{2.5}$	-	0.22

Emission Sources - Maximum Allowable Emission Rates

		NO_X	-	1.19
		CO	-	1.10
		SO_2	-	0.07
		Pb	-	<0.01
		HAPs	-	0.06
STCK68	Iso. Eff. Stabilizer Reboiler T5/T6 - Natural Gas	VOC	0.05	-
		PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_X	0.29	-
		CO	0.36	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK68	Iso. Eff. Stabilizer Reboiler T5/T6 - Fuel Gas	VOC	0.05	-
		PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_X	0.39	-
		CO	0.36	-
		SO_2	0.02	-
		Pb	<0.01	-
STCK68	Iso. Eff. Stabilizer Reboiler T5/T6 – Annual Emissions	VOC	-	0.23
		PM	-	0.32
		PM_{10}	-	0.32
		$PM_{2.5}$	-	0.32
		NO_X	-	1.72
		CO	-	1.59
		SO_2	-	0.10
		Pb	-	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs	-	0.09
STCK69	GTG Mobile Gas Generator	VOC	0.65	2.87
		PM	1.98	8.69
		PM_{10}	1.98	8.69
		$PM_{2.5}$	1.98	8.69
		NO_X	9.96	43.63
		CO	6.06	26.56
		SO_2	0.65	2.83
		NH_3	4.09	17.92
		HAPs	-	1.35
STCK70	Gasoline Post-Treatment Unit - Natural Gas	VOC	0.37	-
		PM	0.50	-
		PM_{10}	0.50	-
		$PM_{2.5}$	0.50	-
		NO_X	2.03	-
		CO	2.50	-
		SO_2	0.15	-
		Pb	<0.01	-
STCK70	Gasoline Post-Treatment Unit - Fuel Gas	VOC	0.37	-
		PM	0.50	-
		PM_{10}	0.50	-
		$PM_{2.5}$	0.50	-
		NO_X	2.37	-
		CO	2.50	-
		SO_2	2.05	-
		Pb	<0.01	
STCK70	Gasoline Post-Treatment Unit – Annual Emissions	VOC	-	1.60
		PM	-	2.21
		PM_{10}	-	2.21

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	-	2.21
		NO_X	-	10.38
		CO	-	10.96
		SO_2	-	8.99
		Pb	-	<0.01
		HAPs	-	0.55
STCK71	SWGR/MCC Building T1 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK72	SWGR/MCC Building T1 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK73	SWGR/MCC Building T1 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs	-	<0.01
STCK74	SWGR/MCC Building T2 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK75	SWGR/MCC Building T2 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK76	SWGR/MCC Building T2 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK77	SWGR/MCC Building T3 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01

Emission Sources - Maximum Allowable Emission Rates

		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK78	SWGR/MCC Building T3 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK79	SWGR/MCC Building T3 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK80	SWGR/MCC Building T4 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK81	SWGR/MCC Building T4 (500kW)	VOC	0.55	0.03

Emission Sources - Maximum Allowable Emission Rates

		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK82	SWGR/MCC Building T4 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK83	SWGR/MCC Building T5 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK84	SWGR/MCC Building T5 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK85	SWGR/MCC Building T5 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK86	SWGR/MCC Building T6 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK87	SWGR/MCC Building T6 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK88	SWGR/MCC Building T6 (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK89	OSBL Common Power Block (T1/T2) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK90	Cooling Tower Loads (T1/T2) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK91	WWTF/RWTF Instrument Room (T1/T2) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01

Emission Sources - Maximum Allowable Emission Rates

STCK92	OSBL Common Power Block (T3/T4) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK93	Cooling Tower Loads (T3/T4) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK94	WWTF/RWTF Instrument Room (T3/T4) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK95	OSBL Common Power Block (T5/T6) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19

Emission Sources - Maximum Allowable Emission Rates

		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK96	Cooling Tower Loads (T5/T6) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK97	WWTF/RWTF Instrument Room (T5/T6) (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK98	HGU, LPG, Control Room Area (500kW)	VOC	0.55	0.03
		PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK99	Tank Farm Instrument Room (500kW)	VOC	0.55	0.03
		PM	0.22	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_X	3.87	0.19
		CO	3.86	0.19
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK100	Control Room Ops Office Bldg (1,000 kw)	VOC	1.75	0.09
		PM	0.44	0.02
		PM_{10}	0.44	0.02
		$PM_{2.5}$	0.44	0.02
		NO_X	12.36	0.62
		CO	7.72	0.39
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK101	Office Building Engineering/Admin (750kW)	VOC	1.31	0.07
		PM	0.33	0.02
		PM_{10}	0.33	0.02
		$PM_{2.5}$	0.33	0.02
		NO_X	9.27	0.46
		CO	5.79	0.29
		SO_2	0.01	<0.01
		HAPs	-	<0.01
STCK102	Fire Water Pump Engine	VOC	0.48	0.02
		PM	0.19	0.01
		PM_{10}	0.19	0.01
		$PM_{2.5}$	0.19	0.01
		NO_X	3.38	0.17
		CO	3.34	0.17
		SO_2	0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		HAPs	-	<0.01
STCK103	Catalyst Regen Process Vent A T1	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK104	Catalyst Regen Process Vent B T1	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK105	Catalyst Regen Process Vent A T2	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK106	Catalyst Regen Process Vent B T2	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK107	Catalyst Regen Process Vent A T3	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK108	Catalyst Regen Process Vent B T3	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18

Emission Sources - Maximum Allowable Emission Rates

		NO_X	0.87	1.50
		CO	5.30	9.15
STCK109	Catalyst Regen Process Vent A T4	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK110	Catalyst Regen Process Vent B T4	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK111	Catalyst Regen Process Vent A T5	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK112	Catalyst Regen Process Vent B T5	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK113	Catalyst Regen Process Vent A T6	PM	0.10	0.18
		PM_{10}	0.10	0.18
		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
STCK114	Catalyst Regen Process Vent B T6	PM	0.10	0.18
		PM_{10}	0.10	0.18

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.10	0.18
		NO_X	0.87	1.50
		CO	5.30	9.15
GFLARE1	Flare T1 Continuous GF101-115	VOC	4.29	-
		NO_X	2.31	-
		CO	9.51	-
		SO_2	0.07	-
GFLARE1	Flare T1 MSS HGU Flaring GF101-115	VOC	162.90	
		NOx	93.47	-
		CO	360.71	-
GFLARE1	Flare T1 MSS Periodic Flaring GF101-115	VOC	260.52	
		NOx	46.44	-
		CO	186.56	-
		SO_2	2.00	-
GFLARE1	Flare T1 Continuous Annual Emissions GF101-115	VOC	-	18.80
		NO_X	-	10.12
		CO	-	41.63
		SO_2	-	0.32
		HAPs	-	0.28
GFLARE1	Flare T1 MSS All Periodic Flaring Annual Emissions - GF101-115	VOC	-	2.22
		NO_X	-	0.49
		CO	-	1.95
		SO_2	-	<0.01
		HAPs	-	1.07
GFLARE2	Flare T2 Continuous GF201-215	VOC	4.29	-
		NO_X	2.31	-
		CO	9.51	-
		SO_2	0.07	
GFLARE2	Flare T2 MSS Periodic Flaring GF201-215	VOC	260.52	-

Emission Sources - Maximum Allowable Emission Rates

		NOx	46.44	-
		CO	186.56	-
		SO_2	2.00	-
GFLARE2	Flare T2 Continuous Annual Emissions GF201-215	VOC	-	18.80
		NO_X	-	10.12
		CO	-	41.63
		SO_2	-	0.32
		HAPs	-	0.28
GFLARE2	Flare T2 MSS All Periodic Flaring Annual Emissions - GF201-215	VOC	-	1.80
		NO_X	-	0.25
		CO	-	1.05
		SO_2	-	<0.01
		HAPs	-	1.05
GFLARE3	Flare T3 Continuous GF301-315	VOC	4.29	-
		NO_X	2.31	-
		CO	9.51	-
		SO_2	0.07	-
GFLARE3	Flare T3 MSS Periodic Flaring GF301-315	VOC	260.52	-
		NOx	46.44	-
		CO	186.56	-
		SO_2	2.00	-
GFLARE3	Flare T3 Continuous Annual Emissions GF301-315	VOC	-	18.80
		NO_X	-	10.12
		CO	-	41.63
		SO_2	-	0.32
		HAPs	-	0.28
GFLARE3	Flare T3 MSS All Periodic Flaring Annual Emissions - GF301-315	VOC	-	1.80
		NO_X	-	0.25
		CO	-	1.05

Emission Sources - Maximum Allowable Emission Rates

		SO_2	-	<0.01
		HAPs	-	1.05
GFLARE4	Flare T4 Continuous GF401-415	VOC	4.29	-
		NO_X	2.31	-
		CO	9.51	-
		SO_2	0.07	-
GFLARE4	Flare T4 MSS Periodic Flaring GF401-415	VOC	260.52	-
		NOx	46.44	-
		CO	186.56	-
		SO_2	2.00	-
GFLARE4	Flare T4 Continuous Annual Emissions GF401-415	VOC	-	18.80
		NO_X	-	10.12
		CO	-	41.63
		SO_2	-	0.32
		HAPs	-	0.28
GFLARE4	Flare T4 MSS All Periodic Flaring Annual Emissions - GF401-415	VOC	-	1.80
		NO_X	-	0.25
		CO	-	1.05
		SO_2	-	<0.01
		HAPs	-	1.05
GFLARE5	Flare T5 Continuous GF501-515	VOC	4.29	-
		NO_X	2.31	-
		CO	9.51	-
		SO_2	0.07	-
GFLARE5	Flare T5 MSS Periodic Flaring GF501-515	VOC	260.52	
		NOx	46.44	-
		CO	186.56	-
		SO_2	2.00	-
GFLARE5	Flare T5 Continuous Annual Emissions GF501-515	VOC	-	18.80

Emission Sources - Maximum Allowable Emission Rates

		NO_X	-	10.12
		CO	-	41.63
		SO_2	-	0.32
		HAPs	-	0.28
GFLARE5	Flare T5 MSS All Periodic Flaring Annual Emissions - GF501-515	VOC	-	1.80
		NO_X	-	0.25
		CO	-	1.05
		SO_2	-	<0.01
		HAPs	-	1.05
GFLARE6	Flare T6 Continuous GF601-615	VOC	4.29	-
		NO_X	2.31	-
		CO	9.51	-
		SO_2	0.07	-
GFLARE6	Flare T6 MSS Periodic Flaring GF601-615	VOC	260.52	-
		NOx	46.44	-
		CO	186.56	-
		SO_2	2.00	-
GFLARE6	Flare T6 Continuous Annual Emissions GF601-615	VOC	-	18.80
		NO_X	-	10.12
		CO	-	41.63
		SO_2	-	0.32
		HAPs	-	0.28
GFLARE6	Flare T6 MSS All Periodic Flaring Annual Emissions - GF601-615	VOC	-	1.80
		NO_X	-	0.25
		CO	-	1.05
		SO_2	-	<0.01
		HAPs	-	1.05
TKMETH	Tank Farm Fugitives - Raw Methanol Storage Tanks	VOC	1.77	3.11
		HAPs	-	3.11

Emission Sources - Maximum Allowable Emission Rates

TKALK	Tank Farm Fugitives - Alkylate Tanks	VOC	1.15	1.01
		HAPs	-	0.54
TKNAP	Tank Farm Fugitives - Naphtha Tanks	VOC	1.18	1.05
		HAPs	-	0.53
TKETH	Tank Farm Fugitives - Ethanol Tanks	VOC	0.85	0.25
		HAPs	-	<0.01
TKRUN	Tank Farm Fugitives - Gasoline Rundown Tanks	VOC	6.42	10.71
		HAPs	-	0.30
TKOFF	Tank Farm Fugitives - Start-up/Off-Spec Gasoline Tanks	VOC	1.35	2.85
		HAPs	-	0.05
TKGAS1	Tank Farm Fugitives - Finished Gasoline Tanks	VOC	2.61	2.95
		HAPs	-	0.05
TKGAS2	Tank Farm Fugitives - Gasoline Tanks	VOC	8.23	14.29
		HAPs	-	0.28
FUG	Tank Farm Fugitives - Slop Oil Tanks	VOC	0.93	1.22
		HAPs	-	0.02
FUG	Tank Farm Fugitives - Slop Methanol Tanks	VOC	0.59	0.26
		HAPs	-	0.26
FUG	Tank Fugitives - Sulfuric Acid Tanks	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
FUG	Tank Fugitives - Urea Tanks	VOC	<0.01	<0.01
		HAPs	<0.01	<0.01
TKADD	Tank Farm Fugitives - Additives Tanks	VOC	4.19	0.01
		HAPs	-	0.01
FUG	Tank Fugitives - Emergency Generator Diesel Tanks	VOC	4.74	0.01
		HAPs	-	<0.01
FUG	Tank Fugitives - Fire Pump Diesel Tank	VOC	0.13	<0.01
		HAPs	-	<0.01
RAIL	Rail Loading Fugitives	VOC	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

TRUCK	Truck Loading Fugitives	VOC	2.23	9.76
		HAPs	-	0.23
FUG	Fugitive Component Leaks - Facility-wide	VOC	13.93	61.03
		CO	27.35	119.79
		NH_3	0.40	1.76
		HAPs	-	14.49
AREA1	WWTP Fugitive Emissions T1/T2	VOC	0.01	0.05
		NH_3	0.04	0.19
		HAPs	-	0.02
AREA2	WWTP Fugitive Emissions T3/T4	VOC	0.01	0.05
		NH_3	0.04	0.19
		HAPs	-	0.02
AREA3	WWTP Fugitive Emissions T5/T6	VOC	0.01	0.05
		NH_3	0.04	0.19
		HAPs	-	0.02
AMMONDRUM	Aqueous Ammonia Drum Diffusion Chamber	NH_3	<0.01	<0.01
MSTKMETH	MSS - Raw Methanol Storage Tanks	VOC	95.69	0.38
		HAPs	-	0.38
MSTKRUN	MSS - Gasoline Rundown Tanks	VOC	127.35	0.76
		HAPs	-	0.04
MSTKOFF	MSS - Start-up/Off-Spec Gasoline Tanks	VOC	70.28	0.14
		HAPs	-	<0.01
MSTKALK	MSS - Alkylate Tanks	VOC	11.47	0.02
		HAPs	-	0.02
MSTKNAP	MSS - Naphtha Tanks	VOC	11.47	0.02
		HAPs	-	0.02
MSTKETH	MSS - Ethanol Tanks	VOC	7.04	0.01
		HAPs	-	<0.01
MSTKGAS1	MSS - Finished Gasoline Tanks	VOC	33.68	0.07

Emission Sources - Maximum Allowable Emission Rates

		HAPs	-	<0.01
MSTKGAS2	MSS - Gasoline Tanks	VOC	203.10	0.81
		HAPs	-	0.04
MSTKADD	MSS - Additives Tanks	VOC	0.32	<0.01
		HAPs	-	<0.01
MSFUG	MSS - Methanol Shift Tanks	VOC	132.25	0.79
		HAPs	-	0.79
MSFUG	MSS - Slop Oil Tanks	VOC	0.94	<0.01
		HAPs	-	<0.01
MSFUG	MSS - Slop Methanol Tanks	VOC	0.44	<0.01
		HAPs	-	<0.01
MSFUG	MSS - Fire Pump Diesel Tank	VOC	0.09	<0.01
		HAPs	-	<0.01
VCUMSS1	VCU - Tank MSS	VOC	13.60	<0.01
		PM	0.52	<0.01
		PM_{10}	0.52	<0.01
		$PM_{2.5}$	0.52	<0.01
		NO_X	6.86	0.02
		CO	5.76	0.02
		Pb	<0.01	<0.01
		HAPs	-	<0.01
FTMSS	Frac Tank MSS	VOC	93.42	0.94
VCMSS	Vac Truck MSS	VOC	20.55	1.03
SSCNTRL	Process Unit SU/SD Controlled MSS	VOC	662.60	7.64
		PM	35.50	0.47
		PM_{10}	35.50	0.47
		$PM_{2.5}$	35.50	0.47
		NO_X	321.80	4.22
		CO	1,275.30	16.91

Emission Sources - Maximum Allowable Emission Rates

SSUNCTR	Process Unit SU/SD Uncontrolled MSS	CO	170.90	0.09
DEGASMSS	Process Unit Degassing Controlled MSS	VOC	1.24	0.44
		PM	0.14	0.03
		PM_{10}	0.14	0.03
		$PM_{2.5}$	0.14	0.03
		NO_X	1.27	0.23
		CO	5.28	0.95
EQUIPMSS	Equipment Opening Uncontrolled MSS	VOC	0.60	0.22
CLYSTMSS	Catalyst Unloading and Loading MSS	PM	3.01	3.25
		PM_{10}	3.01	3.25
		$PM_{2.5}$	3.01	3.25
ILEMSS	Inherently Low Emitting Activities MSS	VOC	3.00	0.10
		PM	1.00	0.10
		PM_{10}	1.00	0.10
		$PM_{2.5}$	1.00	0.10
		NO_X	1.00	0.10
		CO	3.00	0.10
ACABS1	WWTP Controlled Emissions T1/T2	VOC	0.10	0.42
		NH_3	<0.01	<0.01
		HAPs	-	0.07
ACABS2	WWTP Controlled Emissions T3/T4	VOC	0.10	0.42
		NH_3	<0.01	<0.01
		HAPs	-	0.07
ACABS3	WWTP Controlled Emissions T5/T6	VOC	0.10	0.42
		NH_3	<0.01	<0.01
		HAPs	-	0.07
VCUMSS2	VCU - Tank MSS	VOC	13.60	<0.01
		PM	0.52	<0.01
		PM_{10}	0.52	<0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.52	<0.01
		NO_X	6.86	0.02
		CO	5.76	0.02
		Pb	<0.01	<0.01
		HAPs	-	<0.01

(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_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
Pb - lead
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(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.

Date: November 17, 2021

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX207

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
STCK01	Fired Process Heater - Annual Emissions	CO_2e	309,896.68
STCK02	Fired Steam Superheater - Annual Emissions	CO_2e	321,911.91
STCK03	Gasoline Splitter Reboiler - Annual Emissions	CO_2e	31,046.67
STCK04	Gasoline Loop SU Heater	CO_2e	15,053.31
STCK05	Regeneration Heater A	CO_2e	6,103.39
STCK06	Regeneration Heater B	CO_2e	6,103.39
STCK07	Fired Process Heater - Annual Emissions	CO_2e	309,896.68
STCK08	Fired Steam Superheater - Annual Emissions	CO_2e	321,911.91
STCK09	Gasoline Splitter Reboiler - Annual Emissions	CO_2e	31,046.67
STCK10	Gasoline Loop SU Heater	CO_2e	15,053.31
STCK11	Regeneration Heater A	CO_2e	6,103.39
STCK12	Regeneration Heater B	CO_2e	6,103.39
STCK13	Fired Process Heater - Annual Emissions	CO_2e	309,896.68
STCK14	Fired Steam Superheater - Annual Emissions	CO_2e	321,911.91
STCK15	Gasoline Splitter Reboiler - Annual Emissions	CO_2e	31,046.67
STCK16	Gasoline Loop SU Heater	CO_2e	15,053.31
STCK17	Regeneration Heater A	CO_2e	6,103.39
STCK18	Regeneration Heater B	CO_2e	6,103.39
STCK19	Fired Process Heater - Annual Emissions	CO_2e	309,896.68
STCK20	Fired Steam Superheater - Annual Emissions	CO_2e	321,911.91
STCK21	Gasoline Splitter Reboiler - Annual Emissions	CO_2e	31,046.67
STCK22	Gasoline Loop SU Heater	CO_2e	15,053.31
STCK23	Regeneration Heater A	CO_2e	6,103.39
STCK24	Regeneration Heater B	CO_2e	6,103.39
STCK25	Fired Process Heater - Annual Emissions	CO_2e	309,896.68
STCK26	Fired Steam Superheater - Annual Emissions	CO_2e	321,911.91

Emission Sources - Maximum Allowable Emission Rates

STCK27	Gasoline Splitter Reboiler - Annual Emissions	CO_2e	31,046.67
STCK28	Gasoline Loop SU Heater	CO_2e	15,053.31
STCK29	Regeneration Heater A	CO_2e	6,103.39
STCK30	Regeneration Heater B	CO_2e	6,103.39
STCK31	Fired Process Heater - Annual Emissions	CO_2e	309,896.68
STCK32	Fired Steam Superheater - Annual Emissions	CO_2e	321,911.91
STCK33	Gasoline Splitter Reboiler - Annual Emissions	CO_2e	31,046.67
STCK34	Gasoline Loop SU Heater	CO_2e	15,053.31
STCK35	Regeneration Heater A	CO_2e	6,103.39
STCK36	Regeneration Heater B	CO_2e	6,103.39
STCK37	HGU Tubular Reformer - Annual Emissions	CO_2e	462,418.76
STCK56	Auxiliary Boiler T1/T2 - Annual Emissions	CO_2e	219,593.56
STCK57	Auxiliary Boiler T3/T4 - Annual Emissions	CO_2e	219,593.56
STCK58	Auxiliary Boiler T5/T6 - Annual Emissions	CO_2e	219,593.56
STCK59	Loading/Unloading VCU	CO_2e	53,988.36
STCK60	Isomerization Heater T1/T2 - Annual Emissions	CO_2e	3,162.28
STCK61	Hydrocracker Heater T1/T2 - Annual Emissions	CO_2e	5,621.84
STCK62	Iso. Eff. Stabilizer Reboiler T1/T2 - Annual Emis.	CO_2e	8,169.24
STCK63	Isomerization Heater T3/T4 - Annual Emissions	CO_2e	3,162.28
STCK64	Hydrocracker Heater T3/T4 - Annual Emissions	CO_2e	5,621.84
STCK65	Iso. Eff. Stabilizer Reboiler T3/T4 - Annual Emis.	CO_2e	8,169.24
STCK66	Isomerization Heater T5/T6 - Annual Emissions	CO_2e	3,162.28
STCK67	Hydrocracker Heater T5/T6 - Annual Emissions	CO_2e	5,621.84
STCK68	Iso. Eff. Stabilizer Reboiler T5/T6 - Annual Emis.	CO_2e	8,169.24
STCK69	GTG Mobile Gas Generator	CO_2e	154,103.08
STCK70	Gasoline Post-Treatment Unit - Annual Emissions	CO_2e	40,979.20
STCK71	SWGR/MCC Building T1 (500kW)	CO_2e	38.76
STCK72	SWGR/MCC Building T1 (500kW)	CO_2e	38.76
STCK73	SWGR/MCC Building T1 (500kW)	CO_2e	38.76
STCK74	SWGR/MCC Building T2 (500kW)	CO_2e	38.76
STCK75	SWGR/MCC Building T2 (500kW)	CO_2e	38.76
STCK76	SWGR/MCC Building T2 (500kW)	CO_2e	38.76

Emission Sources - Maximum Allowable Emission Rates

STCK77	SWGR/MCC Building T3 (500kW)	CO_2e	38.76
STCK78	SWGR/MCC Building T3 (500kW)	CO_2e	38.76
STCK79	SWGR/MCC Building T3 (500kW)	CO_2e	38.76
STCK80	SWGR/MCC Building T4 (500kW)	CO_2e	38.76
STCK81	SWGR/MCC Building T4 (500kW)	CO_2e	38.76
STCK82	SWGR/MCC Building T4 (500kW)	CO_2e	38.76
STCK83	SWGR/MCC Building T5 (500kW)	CO_2e	38.76
STCK84	SWGR/MCC Building T5 (500kW)	CO_2e	38.76
STCK85	SWGR/MCC Building T5 (500kW)	CO_2e	38.76
STCK86	SWGR/MCC Building T6 (500kW)	CO_2e	38.76
STCK87	SWGR/MCC Building T6 (500kW)	CO_2e	38.76
STCK88	SWGR/MCC Building T6 (500kW)	CO_2e	38.76
STCK89	OSBL Common Power Block (T1/T2) (500kW)	CO_2e	38.76
STCK90	Cooling Tower Loads (T1/T2) (500kW)	CO_2e	38.76
STCK91	WWTF/RWTF Instrument Room (T1/T2) (500kW)	CO_2e	38.76
STCK92	OSBL Common Power Block (T3/T4) (500kW)	CO_2e	38.76
STCK93	Cooling Tower Loads (T3/T4) (500kW)	CO_2e	38.76
STCK94	WWTF/RWTF Instrument Room (T3/T4) (500kW)	CO_2e	38.76
STCK95	OSBL Common Power Block (T5/T6) (500kW)	CO_2e	38.76
STCK96	Cooling Tower Loads (T5/T6) (500kW)	CO_2e	38.76
STCK97	WWTF/RWTF Instrument Room (T5/T6) (500kW)	CO_2e	38.76
STCK98	HGU, LPG, Control Room Area (500kW)	CO_2e	38.76
STCK99	Tank Farm Instrument Room (500kW)	CO_2e	38.76
STCK100	Control Room Ops Office Bldg (1000kW)	CO_2e	77.47
STCK101	Office Building Engineering/Admin (750kW)	CO_2e	58.12
STCK102	Fire Water Pump Engine	CO_2e	33.68
STCK103	Catalyst Regen Process Vent A T1	CO_2e	2,995.06
STCK104	Catalyst Regen Process Vent B T1	CO_2e	2,995.06
STCK105	Catalyst Regen Process Vent A T2	CO_2e	2,995.06
STCK106	Catalyst Regen Process Vent B T2	CO_2e	2,995.06
STCK107	Catalyst Regen Process Vent A T3	CO_2e	2,995.06
STCK108	Catalyst Regen Process Vent B T3	CO_2e	2,995.06

Emission Sources - Maximum Allowable Emission Rates

STCK109	Catalyst Regen Process Vent A T4	CO_2e	2,995.06
STCK110	Catalyst Regen Process Vent B T4	CO_2e	2,995.06
STCK111	Catalyst Regen Process Vent A T5	CO_2e	2,995.06
STCK112	Catalyst Regen Process Vent B T5	CO_2e	2,995.06
STCK113	Catalyst Regen Process Vent A T6	CO_2e	2,995.06
STCK114	Catalyst Regen Process Vent B T6	CO_2e	2,995.06
GFLARE1	Flare T1 Continuous Annual Emissions - GF101-115	CO_2e	17,432.14
GFLARE1	Flare T1 MSS All Periodic Flaring Annual Emissions - GF101-115	CO_2e	518.17
GFLARE2	Flare T2 Continuous Annual Emissions - GF201-215	CO_2e	17,432.14
GFLARE2	Flare T2 MSS All Periodic Flaring Annual Emissions - GF201-215	CO_2e	447.48
GFLARE3	Flare T3 Continuous Annual Emissions GF301-315	CO_2e	17,432.14
GFLARE3	Flare T3 MSS All Periodic Flaring Annual Emissions - GF301-315	CO_2e	447.48
GFLARE4	Flare T4 Continuous Annual Emissions GF401-415	CO_2e	17,432.14
GFLARE4	Flare T4 MSS All Periodic Flaring Annual Emissions - GF401-415	CO_2e	447.48
GFLARE5	Flare T5 Continuous Annual Emissions GF501-515	CO_2e	17,432.14
GFLARE5	Flare T5 MSS All Periodic Flaring Annual Emissions - GF501-515	CO_2e	447.48
GFLARE6	Flare T6 Continuous Annual Emissions GF601-615	CO_2e	17,432.14
GFLARE6	Flare T6 MSS All Periodic Flaring Annual Emissions - GF601-615	CO_2e	447.48
FUG	Fugitive Component Leaks - Facility-wide	CO_2e	3,381.69
AREA1	WWTP Fugitive Emissions T1/T2	CO_2e	23.93
AREA2	WWTP Fugitive Emissions T3/T4	CO_2e	23.93
AREA3	WWTP Fugitive Emissions T5/T6	CO_2e	23.93
ELECTRICLK	Electrical Equipment Fugitive Leaks	CO_2e	71.25
VCUMSS1	VCU - Tank MSS	CO_2e	31.28
VCUMSS2	VCU - Tank MSS	CO_2e	31.28

Emission Sources - Maximum Allowable Emission Rates

(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) CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015): CO_2 (1), N_2O (298), CH_4(25), SF_6 (22,800), HFC (various), PFC (various)
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: November 17, 2021