

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
18950

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Emission Rates*		Source	Air Contaminant	
Point No. (1)		Name (2)	Name (3)	
lb/hr	TPY			
OC6S1		Pyrolysis	NO _x	41.32
		150.83		
		Furnace 1	CO	11.45
41.80			PM	1.72
2.09			SO ₂	<0.01
<0.01			VOC	0.80
2.93				
OC6S2		Pyrolysis	NO _x	41.32
		150.83		
		Furnace 2	CO	11.45
41.80			PM	1.72
2.09				

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OC6S3	Pyrolysis Furnace 3	SO ₂	<0.01	<0.01
		VOC	0.80	2.93
		NO _x	41.32	150.83
		CO	11.45	41.80
		PM	1.72	2.09
OC6S4	Pyrolysis Furnace 4	SO ₂	<0.01	<0.01
		VOC	0.80	2.93
		NO _x	41.32	150.83
		CO	11.45	41.80
		PM	1.72	2.09
OC6S5	Pyrolysis Furnace 5	SO ₂	<0.01	<0.01
		VOC	0.80	2.93
		NO _x	41.32	150.83
		CO	11.45	41.80
		PM	1.72	2.09
OC6S6	Pyrolysis Furnace 6	SO ₂	<0.01	<0.01
		VOC	0.80	2.93
		NO _x	41.32	150.83
		CO	11.45	41.80
		PM	1.72	2.09

Emission Rates*	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
OC6S7	Pyrolysis Furnace 7	NO _x	41.32	150.83
		CO	11.45	41.80
		PM	1.72	2.09
		SO ₂	<0.01	<0.01
		VOC	0.80	2.93
OC6S2000	Thermal Oxidizer #1	NO _x	2.28	7.90
		CO	1.52	5.27
		PM	0.05	0.12
		SO ₂	0.01	0.06

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		VOC	0.23	0.70
OC6S17	Thermal Oxidizer #2	NO _x	5.61	11.17
		CO	3.30	6.57
		PM	0.17	0.19
		SO ₂	0.05	0.09
		VOC	0.15	0.29
OC6F1018	Vent Flare #1	NO _x	4.67	1.53
		CO	23.79	11.06
		SO ₂	0.09	0.01
		VOC	8.54	6.49
OC6F1000	Ground Flare	NO _x	6.95	2.75
		CO	50.17	13.99
		SO ₂	0.01	0.04
		VOC	130.41	12.4
OC6F1	Elevated Flare	NO _x	6.88	1.92
		CO	49.72	9.79
		SO ₂	0.01	0.03
		VOC	130.41	6.12
OC6F902	South Tank Farm Vent Flare	NO _x	0.10	0.37
		CO	0.82	3.20
		SO ₂	<0.01	0.02
		VOC	0.09	0.33
2 A40F5	A-40 Low Pressure Flare (5)	NO _x	0.23	0.07
		CO	1.63	0.36
		SO ₂	<0.001	<0.001
		VOC	3.54	3.45
A35F900	Barge Flare	NO _x	3.31	2.84
		CO	28.37	23.66
		SO ₂	0.04	0.03
		VOC	10.52	6.86

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
A35F901	Marine Unloading Flare	NO _x	45.40	0.92
		CO	90.64	1.84
		SO ₂	31.38	0.06
		VOC	313.84	4.75
BSRFBRF	Brine Flare (5)	NO _x	0.86	0.82
		CO	1.72	1.63
		SO ₂	0.44	0.06
		VOC	4.41	4.18
BSRF401	Brine Flare #2	NO _x	2.89	3.91
		CO	24.78	32.53
		SO ₂	3.47	0.64
		VOC	8.25	9.50
BSRPSTV 0.11	Stevens Brine Pond (5)	VOC		0.26
OC6CT800	Cooling Tower	VOC	4.17	15.90
OC6GE01	Air Compressor #1	NO _x	10.03	0.50
		CO	2.17	0.11
		PM	0.72	0.04
		SO ₂	0.67	0.03
		VOC	0.80	0.04
OC6GE02	Air Compressor #2	NO _x	10.03	0.50
		CO	2.17	0.11
		PM	0.72	0.04
		SO ₂	0.67	0.03
		VOC	0.80	0.04
OC6GE03	Emergency Diesel Generator	NO _x	7.72	0.39
		CO	1.67	0.08
		PM	0.55	0.03
		SO ₂	0.51	0.03
		VOC	0.62	0.03

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OC6GE04	Firewater Pump #1	NO _x	10.80	0.54
		CO	2.34	0.12
		PM	0.77	0.04
		SO ₂	0.72	0.04
		VOC	0.86	0.04

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Emission Rates*	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
OC6GE05	Firewater Pump #2	NO _x	10.80	0.54
		CO	2.34	0.12
		PM	0.77	0.04
		SO ₂	0.72	0.04
		VOC	0.86	0.04
OC6GE06	Firewater Pump #3	NO _x	20.37	1.02
		CO	4.41	0.22
		PM	1.46	0.07
		SO ₂	1.46	0.07
		VOC	1.63	0.08
OC6GE08	Firewater Pump #4	NO _x	20.37	1.02
		CO	4.41	0.22
		PM	1.46	0.07
		SO ₂	1.46	0.07
		VOC	1.63	0.08
OC6GE07	Stormwater Pump	NO _x	15.43	0.77
		CO	3.34	0.17
		PM	1.10	0.06
		SO ₂	1.03	0.05
		VOC	1.23	0.06
OC6ST1101A	Storage Tank BV-1101A	VOC	2.09	5.18
OC6ST1101B	Storage Tank BV-1101B	VOC	2.09	5.18
OC6ST1120	Storage Tank BV-1120	VOC	0.72	2.12
OC6ST1416	Storage Tank BV-1416	VOC	0.50	0.62
OC6ST1516	Storage Tank	VOC	0.61	0.62

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OC6ST1901	Storage Tank BV-1901	VOC	1.62	4.41
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OC6FU01	Ethylene Process Area Fugitives (4)	VOC H ₂ S	3.13 <0.001	13.75 <0.001
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Emission Rates*	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
OC6FU10	Aromatics Process Area Fugitives (4)	VOC	3.03	13.28
A35FU3	A-14 Dock Fugitives (4)	VOC	0.03	0.13
A35FU4	Propane Unloading Fugitives (4)	VOC	0.34	1.52
A35FU2	A-13 Barge Dock Fugitives (4)	VOC	0.14	0.63
A35FU5	C ₄ Sphere BD-200 Fugitives (4)	VOC	0.06	0.24
OC6FU11	South Tank Farm #1 Fugitives (4)	VOC	0.30	1.29
OC6FU12	South Tank Farm #2 Fugitives (4)	VOC	0.30	1.29
BSRFU2	Propane/Naphtha Injection Pumps Fugitives (4)	VOC	0.34	1.49
BSRFU3	Brine Stripper & Flare Fugitives (4)	VOC	0.11	0.50
BSRFU4	Brock Well 37	VOC	0.03	0.14

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Fugitives (4)				
BSRFU5	Brock Well 12 Fugitives (4)	VOC	0.03	0.13
BSRFU1	Propane Injection Fugitives (4)	VOC	0.06	0.26
A35BL13	Uncollected Barge Fuel Oil Loading Emissions	VOC	18.00	4.37

- (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) PM - particulate matter
PM10 - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Existing sources. Emissions represent actual increase in emissions anticipated as a result of LHC-8 Design Update.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____