

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5631

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 * | Source | Air Contaminant | Emission Rates | |
|---|----------|-----------------|----------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| <u>Tank Farm</u> | | | | |
| 300-1, 300-2, 300-3, 300-4, 80-7, 300-21, 300-22, C80-1, C80-2, C80-3, C80-4, B30-9, B30-10, B30-11, B30-12, and C30-13 | Tanks ** | VOC | | 75.00 |
| | | BZ | | 2.53 |
| 300-1 | Tank | VOC | 8.30 | |
| | | BZ | 0.35 | |
| 300-2 | Tank | VOC | 4.81 | |
| | | BZ | 0.21 | |
| 300-3 | Tank | VOC | 8.30 | |
| | | BZ | 0.35 | |
| 300-4 | Tank | VOC | 8.30 | |
| | | BZ | 0.35 | |
| 80-7 | Tank | VOC | 3.52 | |
| | | BZ | 0.15 | |
| 300-21 | Tank | VOC | 7.35 | |
| | | BZ | 0.31 | |

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| <u>Emission</u> * | Source | Air Contaminant | <u>Emission Rates</u> | |
|--|-----------------|-----------------|-----------------------|---------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u> | <u>TPY</u> |
| 300-22 | Tank | VOC BZ | 7.35 0.31 | |
| C80-1 | Tank | VOC | 25.19 | |
| C80-2 | Tank | VOC | 25.19 | |
| C80-3 | Tank | VOC BZ | 4.34 0.19 | |
| C80-4 | Tank | VOC BZ | 4.34 0.19 | |
| B30-9 | Tank | VOC | 18.80 | |
| B30-10 | Tank | VOC | 18.80 | |
| B30-11 | Tank | VOC BZ | 3.18 0.14 | |
| B30-12 | Tank | VOC BZ | 3.18 0.14 | |
| C30-13 | Tank | VOC | 18.80 | |
| 150-40, 150-41, 150-42, 80-43, 80-44, 80-45, 80-46, 27-14, and 27-15 | Tanks *** | VOC BZ | | 22.85 0.76 |
| 150-40 | Tank | VOC BZ | 2.29 0.12 | |
| 150-41 | Tank | VOC BZ | 2.29 0.12 | |

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| Emission * Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|--------------------------------|-------------------------------|-----------------------------|----------------|--------------|
| | | | lb/hr | TPY |
| 150-42 | Tank | VOC BZ | 2.29 0.12 | |
| 80-43 | Tank | VOC BZ | 2.27 0.15 | |
| 80-44 | Tank | VOC BZ | 2.27 0.15 | |
| 80-45 | Tank | VOC BZ | 2.27 0.15 | |
| 80-46 | Tank | VOC BZ | 2.27 0.15 | |
| 27-14 | Tank | VOC BZ | 1.60 0.10 | |
| 27-15 | Tank | VOC BZ | 1.60 0.10 | |
| 100-47 | Tank | VOC BZ | 2.12 0.13 | 2.66 0.09 |
| 100-48 | Tank | VOC BZ | 2.12 0.13 | 2.66 0.09 |
| 100-49 | Tank | VOC BZ | 2.12 0.13 | 2.66 0.09 |
| 80-12 | Tank | VOC BZ | 2.22 0.15 | 2.48 0.08 |
| FUG 100 | 100 Manifold Fugitives (4) | VOC BZ | 0.28 0.03 | 1.23 0.12 |

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| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|----------------------|-----------------------------|-----------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u> | <u>TPY</u> |
| FUG B | B Manifold Fugitives (4) | VOC | 0.05 | 0.24 |
| | | BZ | 0.005 | 0.02 |
| FUG C | C Manifold Fugitives (4) | VOC | 0.16 | 0.69 |
| | | BZ | 0.02 | 0.07 |
| FUG D | D Manifold Fugitives (4) | VOC | 0.23 | 1.00 |
| | | BZ | 0.02 | 0.10 |
| 100-50 | Tank | VOC | 2.25 | 2.95 |
| | | BZ | 0.13 | 0.05 |
| 100-51 | Tank | VOC | 2.25 | 2.95 |
| | | BZ | 0.13 | 0.05 |
| 100-52 | Tank | VOC | 2.25 | 2.95 |
| | | BZ | 0.13 | 0.05 |
| 100-53 | Tank | VOC | 2.25 | 2.95 |
| | | BZ | 0.13 | 0.05 |
| 150-54 | Tank | VOC | 2.19 | 3.22 |
| | | BZ | 0.11 | 0.06 |
| 150-55 | Tank | VOC | 2.19 | 3.22 |
| | | BZ | 0.11 | 0.06 |
| 150-56 | Tank | VOC | 2.19 | 3.22 |
| | | BZ | 0.11 | 0.06 |
| 150-57 | Tank | VOC | 2.19 | 3.22 |
| | | BZ | 0.11 | 0.06 |
| 100-58 | Tank | VOC | 2.25 | 2.95 |

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| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|----------------------|-----------------|-----------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u> | <u>TPY</u> |
| | | BZ | 0.13 | 0.05 |

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AIR CONTAMINANTS DATA

| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|---------------|-----------------------------|-----------------|-----------------------|------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| 100-59 | Tank | VOC | 2.25 | 2.95 |
| | | BZ | 0.13 | 0.05 |
| 100-60 | Tank | VOC | 2.25 | 2.95 |
| | | BZ | 0.13 | 0.05 |
| FUG E | E Manifold Fugitives (4) | VOC | 0.16 | 0.72 |
| | | BZ | 0.02 | 0.07 |

Boilers and Turbines

| | | | | |
|-----|--|-----------------|-------|-------|
| S-1 | Boiler | VOC | 0.10 | 0.40 |
| | | NO _x | 4.00 | 17.30 |
| | | CO | 1.00 | 4.30 |
| | | PM | 0.10 | 0.60 |
| | | SO ₂ | 0.02 | 0.07 |
| S-4 | Boiler | VOC | 0.14 | 0.61 |
| | | NO _x | 15.45 | 67.67 |
| | | CO | 4.01 | 17.55 |
| | | PM | 0.50 | 2.19 |
| | | SO ₂ | 0.06 | 0.26 |
| S-7 | IBW Gas-Fired Boiler 1.42 73.4 MMBtu | VOC | | 0.32 |
| | | NO _x | 3.67 | 16.08 |
| | | CO | 2.79 | 12.22 |
| | | PM | 0.37 | 1.61 |
| | | SO ₂ | 0.04 | 0.19 |
| S-8 | IBW Gas-Fired Boiler 1.42 73.4 MMBtu | VOC | | 0.32 |
| | | NO _x | 3.67 | 16.08 |
| | | CO | 2.79 | 12.22 |

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| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|----------------------|--|-----------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u> | <u>TPY</u> |
| | | PM | 0.37 | 1.61 |
| | | SO ₂ | 0.04 | 0.19 |
| 500 | Gas Turbine* (Allison 501-KB) 35.0 | VOC | 0.22 (0.05) | 0.9 |
| | | NO _x | 8.5 (20.9) | |
| | | CO | 6.2 (2.9) | 27.16 |
| | | PM | 0.18 (0.20) | 0.80 |
| | | SO ₂ | 0.02 (0.02) | 0.1 |

* Hourly emission limits in parentheses apply when turbine is operated without water injection.

Loading Flares

| | | | | |
|-----|-------|-----------------|------|-------|
| S-5 | Flare | VOC | | 11.70 |
| S-6 | Flare | VOC | 3.00 | 8.20 |
| | | BZ | 0.13 | 0.28 |
| | | NO _x | 0.20 | 0.50 |
| | | CO | 1.50 | 4.20 |

Marine Loading

| | | | | |
|---------------------------------------|--------------------|-----------------|--------|--------|
| MLF-1 | Flare | VOC | 90.0 | 41.4 |
| | | BZ | 2.0 | 1.22 |
| | | NO _x | 11.4 | 4.8 |
| | | CO | 45.4 | 18.9 |
| SD-1, SD-4, SD-5, BD-B and BD-D | Dock Fugitives (4) | ****VOC | | 103.00 |
| | | BZ | | 3.48 |
| SD-1 | Ship Dock 1 | VOC | 823.20 | |

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| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|---------------|---------------|-----------------|-----------------------|-----|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| | Fugitives (4) | BZ | 11.64 | |
| SD-4 | Ship Dock 4 | VOC | 823.20 | |
| | Fugitives (4) | BZ | 11.64 | |
| SD-5 | Ship Dock 5 | VOC | 823.20 | |
| | Fugitives (4) | BZ | 11.64 | |
| BD-B | Barge Dock B | VOC | 191.84 | |
| | Fugitives (4) | BZ | 4.56 | |
| BD-D | Barge Dock D | VOC | 212.20 | |
| | Fugitives (4) | BZ | 3.37 | |

- (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) VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 PM - particulate matter
 SO₂ - sulfur dioxide
 BZ - benzene
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day _____ Days/week _____
 Weeks/year _____ or Hrs/year _____
8,760

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|----------------------|-----------------|-----------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u> | <u>TPY</u> |

** The combined annual emission rate for these tanks shall not exceed 75 TPY of VOC and 2.53 TPY of BZ.

*** The combined annual emission rate for these tanks shall not exceed 22.85 TPY of VOC and 0.76 TPY of BZ.

**** The combined annual emission rate for the loading docks shall not exceed 103.0 TPY VOC and 3.48 TPY of BZ.

Dated _____