

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5040

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<br>*<br>Point No. (1) | Source<br>Name (2)                       | Air Contaminant<br>Name (3) | Emission Rates |       |
|--------------------------------|--|-----------------------------|----------------|-------|
|                                |  |                             | lb/hr          | TPY   |
| AAFLARE                        | Flare                                    | NO <sub>x</sub>             | 0.82           | 3.58  |
|                                |  | CO                          | 4.18           | 18.29 |
|                                |  | SO <sub>2</sub>             | 0.02           | 0.10  |
| PW5206                         | 250-HP Pump Motor (5)                    | NO <sub>x</sub>             | 7.72           | 3.28  |
|                                |  | CO                          | 1.66           | 0.71  |
|                                |  | VOC                         | 0.42           | 0.18  |
|                                |  | PM                          | 0.54           | 0.23  |
|                                |  | SO <sub>2</sub>             | 0.51           | 0.22  |
| PW5207                         | 250-HP Emergency Generator (5)<br>3.28   | NO <sub>x</sub>             |                | 7.72  |
|                                |  | CO                          | 1.66           | 0.71  |
|                                |  | VOC                         | 0.42           | 0.18  |
|                                |  | PM                          | 0.54           | 0.23  |
|                                |  | SO <sub>2</sub>             | 0.51           | 0.22  |
| AATFFUG                        | Tank Farm Fugitives (4)                  | VOC                         | 0.20           | 0.89  |
| AABFUG                         | Barge Loading Fugitives (4)<br>0.23      |                             | VOC            | 0.05  |
| AARTFUG                        | Truck/Rail Loading Fugitives (4)<br>0.61 |                             | VOC            | 0.14  |
| AAFUG                          | Process Fugitives (4)                    | VOC                         | 3.48           | 15.24 |
|                                |  | CO                          | 10.20          | 44.67 |
|                                |  | IOC-U                       | 0.06           | 0.24  |

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| Emission<br>* | Source   | Air Contaminant | Emission Rates |      |
|---------------|----------|-----------------|----------------|------|
| Point No. (1) | Name (2) | Name (3)        | lb/hr          | TPY  |
|               |          | I <sub>2</sub>  | 0.01           | 0.05 |
|               |          | Cl <sub>2</sub> | 0.01           | 0.05 |
|               |          | Freon 22        | 0.43           | 1.90 |

Phase I Operation:

|           |                                     |     |       |       |
|-----------|-------------------------------------|-----|-------|-------|
| AASCV5238 | AA Tank 5238 Scrubber               | VOC | 0.66  | 0.09  |
| AASCV5250 | AA Tank 5250 Scrubber               | VOC | 0.14  | 0.05  |
| AASCV5251 | AA Tank 5251 Scrubber               | VOC | 0.14  | 0.05  |
| AASCV5252 | AA Tank 5252 Scrubber               | VOC | 0.14  | 0.02  |
| AASCV5118 | AA Tank 5118 Scrubber               | VOC | 0.65  | 0.10  |
| AASCV5129 | AA Tank 5129 Scrubber               | VOC | 0.65  | 0.10  |
| AABSTK    | Barge Loading                       | VOC | 36.50 | 13.63 |
| AARTSC    | Rail/Truck Loading Scrubber<br>0.01 | VOC |       | 0.09  |
| AAV5209   | Methanol Storage Tank 5209<br>0.50  | VOC |       | 0.20  |
| AAV5210   | Methanol Storage Tank 5210<br>0.50  | VOC |       | 0.20  |
| AALHW     | Waste Acid Loading<br>Fugitives (6) | VOC | 0.37  | 0.02  |

Phase II Operation:

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## AIR CONTAMINANTS DATA

| Emission<br>*<br>Point No. (1) | Source<br>Name (2)                  | Air Contaminant<br>Name (3) | Emission Rates |      |
|--------------------------------|-------------------------------------|-----------------------------|----------------|------|
|                                |                                     |                             | lb/hr          | TPY  |
| AASCV5238                      | AA Tank 5238 Scrubber               | VOC                         | 0.66           | 0.10 |
| AASCV5250                      | AA Tank 5250 Scrubber               | VOC                         | 0.20           | 0.06 |
| AASCV5251                      | AA Tank 5251 Scrubber               | VOC                         | 0.20           | 0.06 |
| AASCV5252                      | AA Tank 5252 Scrubber               | VOC                         | 0.20           | 0.03 |
| AASCV5118                      | AA Tank 5118 Scrubber               | VOC                         | 0.65           | 0.11 |
| AASCV5129                      | AA Tank 5129 Scrubber               | VOC                         | 0.65           | 0.11 |
| AABSC                          | Barge Loading Scrubber              | VOC                         | 0.41           | 0.25 |
| AARTSC                         | Rail/Truck Loading Scrubber<br>0.01 | VOC                         |                | 0.09 |
| AAV5209                        | Methanol Storage Tank 5209<br>0.61  | VOC                         |                | 0.25 |
| AAV5210                        | Methanol Storage Tank 5210<br>0.61  | VOC                         |                | 0.25 |
| AALHW                          | Waste Acid Loading<br>Fugitives (6) | VOC                         | 0.37           | 0.03 |

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

CO - carbon monoxide

VOC - volatile organic compounds as defined in General Rule 101.1

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AIR CONTAMINANTS DATA

| Emission<br>*        | 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 - particulate matter, suspended in the atmosphere, including PM<sup>10</sup>.

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

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

IOC-U - inorganic compounds (unspeciated)

I<sub>2</sub> - iodide

Cl<sub>2</sub> - chlorine

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Emission rates for PWW5206 and PWW5207 are based on and the facilities are limited by a maximum operating schedule of 850 hrs/year.

(6) Emission rates for AALHW are based on and the facilities are limited by a maximum operating schedule of 20 hrs/year.

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

\_\_\_\_\_Hrs/day    \_\_\_\_\_Days/week    \_\_\_\_\_Weeks/year or 8,760 Hrs/year

Dated\_\_\_\_\_