

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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 Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|------------------------------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY |
| AACT | South Cooling Tower | VOC | 2.10 | 9.20 |
| AAFLARE | Flare | CO | 4.18 | 18.29 |
| | | NO _x 0.82 | 3.58 | |
| | | SO ₂ | 0.02 | 0.10 |
| | | VOC (7) | 0.02 | 0.07 |
| AAV5312 | Storage Tank | VOC | 0.65 | 1.52 |
| PWW5206 | 250-HP Pump Motor (5) | CO | 1.66 | 0.71 |
| | | NO _x 7.72 | 3.28 | |
| | | PM | 0.54 | 0.23 |
| | | SO ₂ | 0.51 | 0.22 |
| | | VOC 0.42 | 0.18 | |
| PWW5207 | 250-HP Emergency Generator (5) 0.71 | CO | | 1.66 |
| | | NO _x 7.72 | 3.28 | |
| | | PM 0.54 | 0.23 | |
| | | SO ₂ 0.51 | 0.22 | |
| | | VOC | 0.42 | 0.18 |
| AATFFUG | Tank Farm Fugitives (4) | VOC | 0.89 | 3.88 |
| AABFUG | Barge Loading Fugitives (4) | VOC | 0.05 | 0.23 |
| AARTFUG | Truck/Rail Loading Fugitives (4) 0.61 | | VOC | 0.14 |

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|---------------------------|-----------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY |
| AAFUG | Process Fugitives (4) | Cl ₂ | 0.01 | 0.05 |
| | | CO | 10.20 | 44.67 |
| | | Freon 22 | 0.43 | 1.90 |
| | | I ₂ | 0.01 | 0.05 |
| | | IOC-U | 0.06 | 0.24 |
| | | VOC 3.48 | 15.24 | |

Phase I Operation:

| | | | | |
|-----------|-------------------------------------|-----|-------|-------|
| AABSTK | Barge Loading | VOC | 36.50 | 13.63 |
| AARTSC | Rail/Truck Loading Scrubber | VOC | 0.09 | 0.02 |
| AASCV5118 | AA Tank 5118 Scrubber | VOC | 0.65 | 0.10 |
| AASCV5129 | AA Tank 5129 Scrubber | VOC | 0.65 | 0.10 |
| AASCV5238 | AA Tank 5238 Scrubber | VOC | 0.66 | 0.09 |
| AASCV5251 | AA Tank 5251 Scrubber | VOC | 0.14 | 0.05 |
| AASCV5252 | AA Tank 5252 Scrubber | VOC | 0.14 | 0.02 |
| AASCV5315 | AA Tank 5250 Scrubber | VOC | 0.14 | 0.05 |
| AAV5209 | Methanol Storage Tank 5209 | VOC | 0.20 | 0.50 |
| AAV5210 | Methanol Storage Tank 5210 | VOC | 0.20 | 0.50 |
| AALHW | Waste Acid Loading Fugitives (6) | VOC | 0.37 | 0.02 |

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|----------------------------|-------------------------------------|-----------------------------|------------------|------|
| | | | lb/hr | TPY |
| <u>Phase II Operation:</u> | | | | |
| AABSC | Barge Loading Scrubber | VOC | 0.41 | 0.25 |
| AARTSC | Rail/Truck Loading Scrubber | VOC | 0.09 | 0.02 |
| AASCV5118 | AA Tank 5118 Scrubber | VOC | 0.65 | 0.11 |
| AASCV5129 | AA Tank 5129 Scrubber | VOC | 0.65 | 0.11 |
| AASCV5238 | AA Tank 5238 Scrubber | VOC | 0.66 | 0.10 |
| AASCV5251 | AA Tank 5251 Scrubber | VOC | 0.20 | 0.06 |
| AASCV5252 | AA Tank 5252 Scrubber | VOC | 0.20 | 0.03 |
| AASCV5315 | AA Tank 5250 Scrubber | VOC | 0.20 | 0.06 |
| AAV5209 | Methanol Storage Tank 5209 | VOC | 0.25 | 0.61 |
| AAV5210 | Methanol Storage Tank 5210 | VOC | 0.25 | 0.61 |
| AALHW | Waste Acid Loading 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) Cl₂ - chlorine

CO - carbon monoxide

I₂ - iodide

IOC-U - inorganic compounds (unspeciated)

NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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- (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.
- (7) VOC emissions are listed in permit number x for the BP polyalphaolefins unit.

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

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