### Permit Number 30513

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<br>No. (1) | Source Name (2)        | Air Contaminant<br>Name (3) | Emission Rates |         |
|---------------------------|------------------------|-----------------------------|----------------|---------|
| (2)                       | (-)                    |                             | lbs/hour       | TPY (4) |
| 7-0-0                     | Unit 7 Fugitives (5)   | VOC                         | 0.97           | 4.27    |
|                           |                        | Benzene                     | 0.23           | 1.02    |
| 11-0-0                    | Unit 11 Fugitives (5)  | VOC                         | 2.38           | 10.43   |
|                           |                        | Benzene                     | 0.03           | 0.12    |
|                           |                        | Hydrogen Sulfide            | <0.01          | 0.02    |
| 14-0-0                    | Unit 14 Fugitives (5)  | VOC                         | 3.31           | 14.49   |
|                           |                        | Benzene                     | 0.06           | 0.25    |
|                           |                        | Hydrogen Sulfide            | 0.06           | 0.27    |
| 17-0-0                    | Unit 17 Fugitives (5)  | VOC                         | 0.18           | 0.79    |
|                           |                        | Benzene                     | 0.08           | 0.37    |
| 35-0-0                    | Unit 35 Fugitives (5)  | VOC                         | 3.61           | 15.82   |
|                           |                        | Benzene                     | 0.04           | 0.17    |
| 11-36-1                   | Unit 11 Prefac Furnace | NO <sub>x</sub>             | 3.60           | 15.77   |
|                           |                        | со                          | 4.94           | 21.64   |
|                           |                        | VOC                         | 0.32           | 1.42    |
|                           |                        | SO <sub>2</sub>             | 1.36           | 1.87    |
|                           |                        | PM                          | 0.45           | 1.96    |
|                           |                        | PM <sub>10</sub>            | 0.45           | 1.96    |
|                           |                        | PM <sub>2.5</sub>           | 0.45           | 1.96    |

| 11-36-5 | Unit 11 HDS Furnace    |                   |       |        |
|---------|------------------------|-------------------|-------|--------|
| 11 30 3 |                        | NO <sub>x</sub>   | 4.20  | 18.40  |
|         |                        | СО                | 5.76  | 25.25  |
|         |                        | VOC               | 0.38  | 1.65   |
|         |                        | SO <sub>2</sub>   | 1.59  | 2.18   |
|         |                        | РМ                | 0.52  | 2.28   |
|         |                        | PM <sub>10</sub>  | 0.52  | 2.28   |
|         |                        | PM <sub>2.5</sub> | 0.52  | 2.28   |
| 14-36-3 | Unit 14 Prefac Furnace | NO <sub>x</sub>   | 4.80  | 21.02  |
|         |                        | со                | 6.59  | 28.86  |
|         |                        | VOC               | 0.43  | 1.89   |
|         |                        | SO <sub>2</sub>   | 1.82  | 2.49   |
|         |                        | РМ                | 0.60  | 2.61   |
|         |                        | PM <sub>10</sub>  | 0.60  | 2.61   |
|         |                        | PM <sub>2.5</sub> | 0.60  | 2.61   |
| 14-36-4 | Unit 14 HDS Furnace    | NO <sub>x</sub>   | 3.30  | 14.45  |
|         |                        | со                | 4.53  | 19.84  |
|         |                        | VOC               | 0.30  | 1.30   |
|         |                        | SO <sub>2</sub>   | 1.25  | 1.71   |
|         |                        | РМ                | 0.41  | 1.79   |
|         |                        | PM <sub>10</sub>  | 0.41  | 1.79   |
|         |                        | PM <sub>2.5</sub> | 0.41  | 1.79   |
| 35-36-1 | CCR Furnace            | VOC               | 2.70  | 9.55   |
|         |                        | NO <sub>x</sub>   | 30.00 | 106.30 |
|         |                        | со                | 30.00 | 106.30 |
|         |                        | РМ                | 3.73  | 13.20  |
|         |                        | PM <sub>10</sub>  | 3.73  | 13.20  |
|         |                        | PM <sub>2.5</sub> | 3.73  | 13.20  |
|         |                        | SO <sub>2</sub>   | 11.36 | 12.58  |

| 35-95-102 | Caustic Scrubber      | HCI             | 0.08 | 0.34  |
|-----------|-----------------------|-----------------|------|-------|
|           |                       | Cl <sub>2</sub> | 0.04 | 0.19  |
| 54-22-2   | Unit 11 Cooling Tower | VOC             | 0.39 | 1.72  |
|           |                       | Ethylene        | 0.01 | 0.05  |
|           |                       | Propylene       | 0.01 | 0.05  |
| 54-22-8   | Unit 14 Cooling Tower | VOC             | 0.52 | 2.30  |
|           |                       | Ethylene        | 0.02 | 0.07  |
|           |                       | Propylene       | 0.02 | 0.07  |
| 54-22-11  | Unit 7 Cooling Tower  | VOC             | 0.08 | 0.37  |
|           |                       | Ethylene        | 0.01 | 0.01  |
|           |                       | Propylene       | 0.01 | 0.01  |
| 54-22-18  | Unit 35 Cooling Tower | VOC             | 0.57 | 2.48  |
|           |                       | Ethylene        | 0.02 | 0.07  |
|           |                       | Propylene       | 0.02 | 0.07  |
| 56-61-1   | Flare 1               | NO <sub>x</sub> | 0.52 | 2.27  |
|           |                       | со              | 4.44 | 19.44 |
|           |                       | VOC             | 6.34 | 12.35 |
|           |                       | SO <sub>2</sub> | 0.01 | 0.04  |

| 56-61-11 | Flare 11                                           |                 |      |      |
|----------|----------------------------------------------------|-----------------|------|------|
| 30 01 11 |                                                    | NO <sub>x</sub> | 0.07 | 0.29 |
|          |                                                    | VOC (6)         | 1.35 | 5.91 |
|          |                                                    | SO <sub>2</sub> | 0.12 | 0.53 |
|          |                                                    | Ethylene        | 0.01 | 0.01 |
|          |                                                    | Propylene       | 0.01 | 0.06 |
|          | Flare 11 (Unit 7 SSM Emissions from Flare 11) (7)  | NO <sub>x</sub> | 0.01 | 0.01 |
|          |                                                    | СО              | 0.06 | 0.01 |
|          |                                                    | VOC             | 0.19 | 0.01 |
|          | Flare 11 (Unit 17 SSM Emissions from Flare 11) (7) | NOx             | 0.01 | 0.01 |
|          |                                                    | СО              | 0.05 | 0.01 |
|          |                                                    | voc             | 0.15 | 0.01 |
|          | Flare 11 (Unit 35 SSM Emissions from Flare 11) (7) | NOx             | 0.03 | 0.01 |
|          |                                                    | со              | 0.21 | 0.02 |
|          |                                                    | voc             | 0.65 | 0.07 |

| 56-61-16  | Flare 16                             | NO <sub>x</sub> | 0.83 | 3.64  |
|-----------|--------------------------------------|-----------------|------|-------|
|           |                                      | CO              | 1.89 | 8.30  |
|           |                                      | VOC (6)         | 4.57 | 20.02 |
|           |                                      | SO <sub>2</sub> | 4.29 | 18.78 |
|           |                                      | Ethylene        | 0.01 | 0.02  |
|           |                                      | -               | 0.53 | 2.32  |
|           | Flare 16 (Unit 7 SSM Emissions from  | Propylene       |      |       |
|           | Flare 16) (7)                        | NO <sub>x</sub> | 0.02 | 0.01  |
|           |                                      | CO              | 0.05 | 0.01  |
|           | Flare 16 (Unit 17 SSM Emissions from | VOC             | 0.19 | 0.01  |
|           | Flare 16) (7)                        | NO <sub>x</sub> | 0.02 | 0.01  |
|           |                                      | СО              | 0.04 | 0.01  |
|           | Flare 16 (Unit 35 SSM Emissions from | VOC             | 0.15 | 0.01  |
|           | Flare 16) (7)                        | NO <sub>x</sub> | 0.08 | 0.01  |
|           |                                      | СО              | 0.17 | 0.02  |
|           |                                      | VOC             | 0.65 | 0.07  |
| 68-95-31  | Storage Tank 31                      | VOC             | 0.34 | 0.80  |
| 68-95-66  | Sour Naphtha Storage Tank            | VOC             | 1.14 | 3.81  |
| 68-95-74  | Sour Naphtha Storage Tank            | VOC             | 1.20 | 4.05  |
| 68-95-75  | Sour Naphtha Storage Tank            | VOC             | 1.09 | 3.63  |
| 68-95-76  | Sour Naphtha Storage Tank            | VOC             | 1.06 | 3.50  |
| 68-95-85  | Benzene/Toluene Storage Tank         | VOC             | 0.17 | 0.64  |
| 68-95-86  | Benzene Storage Tank                 | VOC             | 0.29 | 0.48  |
| 68-95-87  | Benzene Storage Tank                 | VOC             | 0.29 | 0.44  |
| 68-95-92  | Benzene Storage Tank                 | VOC             | 0.18 | 0.49  |
| 68-95-93  | Benzene Storage Tank                 | VOC             | 0.20 | 0.55  |
| 68-95-205 | Heavy Aromatics Storage Tank         | VOC             | 0.78 | 1.92  |
| 68-95-206 | Hydrotreated Naphtha Tank            | VOC             | 1.90 | 6.79  |
| 68-95-210 | Raffinate Storage Tank               | voc             | 3.66 | 13.13 |
| 68-95-216 | Toluene Storage Tank                 | VOC             | 0.66 | 0.80  |

| 68-95-409 | Xylene Storage Tank          | VOC | 0.14  | 0.28 |
|-----------|------------------------------|-----|-------|------|
| 68-95-410 | Unit 7 Extractor Charge Tank | voc | 0.75  | 2.35 |
| 68-95-411 | Unit 7 Extract Storage Tank  | voc | 0.31  | 0.59 |
| 68-95-413 | Xylene Storage Tank          | voc | 0.14  | 0.27 |
| 7-SSM-0   | Unit 7 SSM Emissions (7)     | VOC | 1.83  | 0.05 |
| 17-SSM-0  | Unit 17 SSM Emissions (7)    | VOC | 1.30  | 0.04 |
| 35-SSM-0  | Unit 35 SSM Emissions (7)    | VOC | 24.06 | 1.35 |

- (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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide PM - particulate matter

 $PM_{10}$  - particulate matter equal to or less than 10 microns in diameter  $PM_{2.5}$  - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

HCl - hydrogen chloride (Hydrochloric acid)

Cl<sub>2</sub> - chlorine

SSM - start-up, shutdown & maintenance

- (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.
- (6) Ethylene and propylene emissions are included in the total VOC.
- (7) These SSM emissions shall not occur simultaneously at Units 7, 17, and 35.

| Date: July 10, 2015 | ) |
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