Permit Numbers 107523, PSDTX1336, and N174M3

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 No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|-------------------------------|--|--------------------------------|----------------|-------------------|
| Linission i onit ivo. (1) | Source Marie (2) | All Contaminant Name (5) | lbs/hour | TPY (4) |
| | Combustion Unit Cap Includes HR15.101 DW37.101 BO10.103A | NO _x | | 110.21 |
| | | SO ₂ | 33.84 | 135.22 |
| | | NH ₃ | | 127.27 |
| | BO10.103B (8) | H ₂ SO ₄ | | 41.41 |
| COMBCAP2 | Combustion Cap Includes | со | - | 106.49 |
| | HR15.101 BO10.103A | voc | | 6.26 |
| | BO10.103B | PM | | 17.14 |
| | (9) | PM ₁₀ |) | 17.14 |
| | | PM _{2.5} | | 17.14 |
| HR15.101 | Reactor Charge Heater (8)(9) | NO _x | 9.74 | 21.34 |
| | (b)(3) | NO _x MSS (6)(10) | 15.59 | 83.92 4.27 |
| | | СО | 38.32 | |
| | | VOC | 0.97 | |
| | | VOC MSS (6)(10) | 1.95 | |
| | | РМ | 5.85 | 15.90 |
| | | PM ₁₀ | 5.85 | 15.90 |
| | | PM _{2.5} | 5.85 | 15.90 |
| | | SO ₂ | 25.45 | 111.48 |
| | | NH ₃ 2.20 | 2.20 | 9.65 |
| | | H ₂ SO ₄ | 7.80 | 34.14 |
| DW37.101 | Waste Heat Boiler, Waste Heat Boiler | NO _x | 37.53 | 75.74 |
| | Burner, HR15.103, Regeneration Air | NO _x MSS (6)(10) | 67.50 | |
| | Heater, HR15.102, | СО | 87.84 | 178.83 |
| | Regen Air Comp. Gas | CO MSS (6)(10) | 90.00 | |
| | Turbine A, | | | |

Emission Sources - Maximum Allowable Emission Rates

| | I | VOC | 18.76 | 83.09 |
|-----------|-------------------------------|--------------------------------|--------|--|
| | | VOC MSS (6)(10) | 43.76 | |
| | | PM | 33.06 | 78.91 |
| | | | | |
| | | PM ₁₀ | 33.06 | 78.91 |
| | | PM _{2.5} | 33.06 | 78.91 |
| | | SO ₂ | 36.71 | 55.54 |
| | | NH ₃ | 31.18 | 117.09 |
| | | H ₂ SO ₄ | 11.24 | 34.61 |
| GT26.101A | Turbine A Bypass Stack (7) | NO _x | 43.51 | 1.47 |
| | Glacin (1) | со | 152.98 | 0.79 |
| | | voc | 3.97 | 0.05 |
| | | PM | 3.00 | 0.18 |
| | | PM ₁₀ | 3.00 | 0.18 |
| | | PM _{2.5} | 3.00 | 0.18 |
| | | SO ₂ | 0.88 | 0.04 |
| GT26.101B | Turbine B Bypass Stack (7) | NO _x | 43.51 | 1.47 |
| | | СО | 152.98 | 0.79 |
| | | VOC | 3.97 | 0.05 |
| | | PM | 3.00 | 0.18 |
| | | PM ₁₀ | 3.00 | 0.18 |
| | | PM _{2.5} | 3.00 | 0.18 |
| | | SO ₂ | 0.88 | 0.04 |
| BO10.103A | Auxiliary Boiler A | NO _x | 4.31 | |
| | (8)(9) | NO _x MSS (10) | 10.50 | |
| | | СО | 31.89 | |
| | | VOC | 3.45 | 0.05 0.18 0.18 0.18 0.04 1.47 0.79 0.05 0.18 0.18 0.18 |
| | | PM | 2.16 | |
| | | PM ₁₀ | 2.16 | |
| | | | 2.16 | |

| I | I | | T | T |
|------------------------|--|--------------------------------|--------|----------|
| | | SO ₂ | 24.84 | |
| | | NH ₃ | 1.95 | |
| | | H ₂ SO ₄ | 7.61 | |
| BO10.103B | Auxiliary Boiler B | NO _x | 4.31 | |
| | (8)(9) | NO _x MSS (10) | 10.50 | |
| | | СО | 31.89 | |
| | | VOC | 3.45 | |
| | | PM | 2.16 | |
| | | PM ₁₀ | 2.16 | |
| | | PM _{2.5} | 2.16 | |
| | | SO ₂ | 24.84 | |
| | | NH ₃ | 1.95 | |
| | | H ₂ SO ₄ | 7.61 | |
| BO10.103A BO10.103B | Auxiliary Boiler A Auxiliary Boiler B | NO _x | | 21.24 |
| 5010.1005 | Annual Caps (8)(9) | со | | 59.58 |
| | | voc | | 10.77 |
| | | PM | | 6.73 |
| | | PM ₁₀ | | 6.73 |
| | | PM _{2.5} | | 6.73 |
| | | SO ₂ | | 7.87 |
| | | NH ₃ | | 5.87 |
| | | H ₂ SO ₄ | | 2.41 |
| CT13.801 | Cooling Tower (5) | PM | 2.53 | 6.33 |
| | | PM ₁₀ | 1.73 | 4.77 |
| | | PM _{2.5} | 0.67 | 1.95 |
| | | VOC | 2.81 | 6.16 |
| SK25.801 | Process Flare, Routine Hourly Rates | NO _x | 22.62 | |
| | | SO ₂ | 0.54 | |
| | | СО | 117.33 | |
| | 1 | | l | <u> </u> |

| VOC 10.31 | .37 |
|--|-----|
| CO CO CO CO CO CO CO CO | .37 |
| SO ₂ 0.78 CO | .37 |
| SK25.801 Process Flare Annual Rates NOx 27.24 SO2 0.81 CO 142.33 VOC 8.54 PM18.803 Fire Water Pump Engine NOx 2.53 0.07 CO 4.01 0.10 VOC 2.10 0.05 | .37 |
| SK25.801 Process Flare Annual Rates NOx 27.24 SO2 0.81 CO 142.37 VOC 8.54 PM18.803 Fire Water Pump Engine NOx 2.53 0.07 CO 4.01 0.10 VOC 2.10 0.05 | .37 |
| Rates SO ₂ 0.81 CO 142.37 VOC 8.54 PM18.803 Fire Water Pump Engine NO _x CO 4.01 0.10 VOC 2.10 0.81 | .37 |
| SO ₂ | 37 |
| PM18.803 Fire Water Pump Engine NOx 2.53 0.07 CO 4.01 0.10 VOC 2.10 0.05 |) |
| PM18.803 Fire Water Pump Engine NO _x 2.53 0.07 CO 4.01 0.10 VOC 2.10 0.05 |) |
| CO 4.01 0.10 VOC 2.10 0.05 |) |
| CO 4.01 0.10 VOC 2.10 0.05 | 5 |
| | |
| PM 0.23 <0.01 |)1 |
| | |
| PM ₁₀ 0.23 <0.01 |)1 |
| PM _{2.5} 0.23 <0.01 |)1 |
| SO ₂ 0.01 <0.01 |)1 |
| GEN001 PCR001 Emergency Generator Engine NO _x 4.41 0.11 | - |
| CO 6.99 0.18 | } |
| VOC 3.66 0.10 |) |
| PM 0.40 0.01 | - |
| PM ₁₀ 0.40 0.01 | - |
| PM _{2.5} 0.40 0.01 | - |
| SO ₂ 0.01 <0.01 |)1 |
| GEN002 PCR004 Emergency Generator Engine NO _x 4.41 0.11 | - |
| CO 6.99 0.18 | , |
| VOC 3.66 0.10 |) |
| PM 0.40 0.01 | - |
| PM ₁₀ 0.40 0.01 | - |
| PM _{2.5} 0.40 0.01 | - |

| I | 1 | | | T |
|----------|---|-------------------|-------|-------|
| | | SO ₂ | 0.01 | <0.01 |
| GEN003 | Control Room Emergency Generator | NO _x | 2.75 | 0.07 |
| | Engine Senerator | СО | 4.37 | 0.11 |
| | | VOC | 2.29 | 0.06 |
| | | PM | 0.25 | <0.01 |
| | | PM ₁₀ | 0.25 | <0.01 |
| | | PM _{2.5} | 0.25 | <0.01 |
| | | SO ₂ | 0.01 | <0.01 |
| LOAD-PDH | Truck Loading Line Disconnect Losses | VOC | <0.01 | <0.01 |
| UNLD-PDH | Truck Unloading Line Disconnect Losses | VOC | 0.01 | <0.01 |
| FUG-PDH | Process Fugitives (5) | VOC | 3.47 | 15.19 |
| FUG-NGAS | Nat. Gas Pipeline Fugitives (5) | voc | 0.14 | 0.61 |
| FUG-SCR | SCR Ammonia Fugitives (5) | NH ₃ | 0.01 | 0.06 |
| MSS-PDH | Maintenance, Startup, Shutdown Cap | voc | 21.11 | 0.51 |
| CATMSS1 | Catalyst Blending Filter Vent | PM | 0.02 | <0.01 |
| | | PM ₁₀ | 0.02 | <0.01 |
| | | PM _{2.5} | 0.02 | <0.01 |
| CATMSS2 | Catalyst Loading Fugitive | PM | 0.03 | <0.01 |
| | | PM ₁₀ | 0.01 | <0.01 |
| | | PM _{2.5} | 0.01 | <0.01 |
| CATMSS3 | Catalyst Loading Filter | PM | 0.01 | <0.01 |
| | Vents | PM ₁₀ | 0.01 | <0.01 |
| | | PM _{2.5} | 0.01 | <0.01 |
| CATMSS4 | Catalyst Unloading | PM | 0.04 | 0.01 |
| | Filter Vents | PM ₁₀ | 0.04 | 0.01 |
| | | PM _{2.5} | 0.04 | 0.01 |
| CATMSS5 | Catalyst Separation Filter Vent | РМ | 0.02 | <0.01 |

| • | 1 | | | |
|----------|------------------------------------|-------------------|------|-------|
| | | PM ₁₀ | 0.02 | <0.01 |
| | | PM _{2.5} | 0.02 | <0.01 |
| FL20.103 | Catalyst De-dusting Filter Vent | РМ | 3.40 | 0.01 |
| | Filler Veril | PM ₁₀ | 0.99 | <0.01 |
| | | PM _{2.5} | 0.55 | <0.01 |
| WWT | Wastewater Treatment Facilities | VOC | 0.22 | 0.95 |
| SV19.901 | Wastewater Equalization Tank | VOC | 0.01 | 0.04 |
| SV19.610 | Sludge Holding Tank | VOC | 0.01 | 0.04 |
| SV19.842 | FWP Diesel Tote | voc | 0.01 | 0.04 |
| SV19.841 | Methanol Tote | voc | 0.01 | 0.04 |

- (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_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as
 - represented
 - PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter
 - $\begin{array}{cccc} \text{CO} & & \text{ carbon monoxide} \\ \text{H}_2\text{SO}_4 & & \text{ sulfuric acid} \\ \text{NH}_3 & & \text{ ammonia} \\ \end{array}$
- (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) Annual MSS emissions are included in the annual routine allowable rate for this EPN.
- (7) Annual emissions are sub-caps of the annual allowable rate for EPN DW37.101.
- (8) The annual combined NO_x, SO₂, NH₃, H₂SO₄ emissions from Emission Point Nos. HR15.101, DW37.101, BO10.103A, BO10.103B are limited per the annual emissions CAP for each pollutant listed.
- (9) The annual combined CO, VOC, PM, PM₁₀, and PM_{2.5} emissions from Emission Point Nos. HR15.101, BO10.103A, and BO10.103B are limited per the annual emissions CAP for each pollutant listed.
- (10)Contaminants for this EPN not specifically listed in MSS are limited to their respective routine short-term (lb/hr) emission rates.

| Date: | XXXX |
|-------|------|
| | |