Emission Sources - Maximum Allowable Emission Rates

Permit Number 7711A

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 (5) | |
|---|---|---|---|---|
| | | | lbs/hour | TPY (4) |
| **Stillyard Operation** | | | | |
| HTR3 | T-1 Laminating Adhesive Bulk Storage Tank Heater Vent | $NO_x$ | 0.05 | 0.22 |
| | | $SO_2$ | 0.01 | 0.01 |
| | | PM | 0.01 | 0.02 |
| | | $PM_{10}$ | 0.01 | 0.02 |
| | | $PM_{2.5}$ | 0.01 | 0.02 |
| | | CO | 0.04 | 0.18 |
| | | VOC | 0.01 | 0.01 |
| HTR4 | T-2 Laminating Adhesive Bulk Storage Tank heater Vent | $NO_x$ | 0.05 | 0.22 |
| | | $SO_2$ | 0.01 | 0.01 |
| | | PM | 0.01 | 0.02 |
| | | $PM_{10}$ | 0.01 | 0.02 |
| | | $PM_{2.5}$ | 0.01 | 0.02 |
| | | CO | 0.04 | 0.18 |
| | | VOC | 0.01 | 0.01 |
| HTR5 | Asphalt Heater for T-14 and T-15 Coating Asphalt Storage and Coating Feed Loop Vent | $NO_x$ | 0.10 | 0.43 |
| | | $SO_2$ | 0.01 | 0.01 |
| | | PM | 0.01 | 0.03 |
| | | $PM_{10}$ | 0.01 | 0.03 |
| | | $PM_{2.5}$ | 0.01 | 0.03 |

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| | | | | |
|---|---|---|---|---|
| HTR5 | Asphalt Heater for T-14 and T-15 Coating Asphalt Storage and Coating Feed Loop Vent | CO | 0.08 | 0.36 |
| | | VOC | 0.01 | 0.02 |
| BLR5 | Standby Boiler Vent | $NO_x$ | 0.82 | 3.59 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | PM | 0.16 | 0.70 |
| | | $PM_{10}$ | 0.16 | 0.70 |
| | | $PM_{2.5}$ | 0.16 | 0.70 |
| | | CO | 1.73 | 7.58 |
| | | VOC | 0.11 | 0.48 |
| 8/8A | Thermal Oxidizer (Direct Flame Incinerator) Exhaust through Waste Heat Boiler Stack | $NO_x$ | 1.90 | 8.31 |
| | | $SO_2$ | 29.35 | 128.55 |
| | | PM | 2.62 | 11.46 |
| | | $PM_{10}$ | 2.62 | 11.46 |
| | | $PM_{2.5}$ | 2.62 | 11.46 |
| | | CO | 11.34 | 49.65 |
| | | VOC | 0.09 | 0.37 |
| WHBLR1 | Waste Heat Recovery Boiler Natural Gas Burner Side Vent | $NO_x$ | 0.47 | 2.06 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | PM | 0.11 | 0.48 |
| | | $PM_{10}$ | 0.11 | 0.48 |
| | | $PM_{2.5}$ | 0.11 | 0.48 |
| | | CO | 1.24 | 5.43 |
| | | VOC | 0.08 | 0.35 |
| **Common to Line 1 and Line 3** | | | | |
| CFL/34 | Coalescing Filter | PM | 0.63 | 2.76 |

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| | | | | |
|---|---|---|---|---|
| | | $PM_{10}$ | 0.63 | 2.76 |
| | | $PM_{2.5}$ | 0.63 | 2.76 |
| | | VOC | 5.76 | 25.23 |
| **Line 1 Operation** | | | | |
| 1-1 | Line 1 Stabilizer Storage and Heater Baghouse Stack | PM | 0.23 | 1.01 |
| | | $PM_{10}$ | 0.23 | 1.01 |
| | | $PM_{2.5}$ | 0.23 | 1.01 |
| 1-3 | Line 1 Stabilizer Use Bin Baghouse Stack | PM | 0.03 | 0.13 |
| | | $PM_{10}$ | 0.03 | 0.13 |
| | | $PM_{2.5}$ | 0.03 | 0.13 |
| 1-4 | Line 1 Surfacing Section Dust Collector No. 1 Stack | PM | 0.59 | 2.58 |
| | | $PM_{10}$ | 0.59 | 2.58 |
| | | $PM_{2.5}$ | 0.59 | 2.58 |
| 1-5 | Line 1 Surfacing Section Dust Collector No. 2 Stack | PM | 0.59 | 2.58 |
| | | $PM_{10}$ | 0.59 | 2.58 |
| | | $PM_{2.5}$ | 0.59 | 2.58 |
| 1-6 | Line 1 Surfacing Section Dust Collector No. 3 Stack | PM | 0.59 | 2.58 |
| | | $PM_{10}$ | 0.59 | 2.58 |
| | | $PM_{2.5}$ | 0.59 | 2.58 |
| Cool 1 | Line 1 Cooling Section (3 stacks) | PM | 8.52 | 37.30 |
| | | $PM_{10}$ | 8.52 | 37.30 |
| Cool 1 | Line 1 Cooling Section (3 stacks) | $PM_{2.5}$ | 8.52 | 37.30 |
| | | VOC | 1.65 | 7.23 |
| **Line 3 Operation** | | | | |
| 25 | Sand Application Baghouse Stack | PM | 1.50 | 6.57 |

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| | | | | |
|---|---|---|---|---|
| | | $PM_{10}$ | 1.50 | 6.57 |
| | | $PM_{2.5}$ | 1.50 | 6.57 |
| 26A | Stabilizer Storage Baghouse A Stack | PM | 0.15 | 0.70 |
| | | $PM_{10}$ | 0.15 | 0.70 |
| | | $PM_{2.5}$ | 0.15 | 0.70 |
| 26B | Stabilizer Storage Baghouse B Stack | PM | 0.29 | 1.26 |
| | | $PM_{10}$ | 0.29 | 1.26 |
| | | $PM_{2.5}$ | 0.29 | 1.26 |
| 27 | Stabilizer Heater Baghouse Stack | PM | 0.09 | 0.40 |
| | | $PM_{10}$ | 0.09 | 0.40 |
| | | $PM_{2.5}$ | 0.09 | 0.40 |
| 28 | Asphalt Heater Vent | $NO_x$ | 0.59 | 2.60 |
| | | $SO_2$ | <0.01 | 0.02 |
| | | PM | 0.04 | 0.20 |
| | | $PM_{10}$ | 0.04 | 0.20 |
| | | $PM_{2.5}$ | 0.04 | 0.20 |
| | | CO | 0.50 | 2.20 |
| | | VOC | 0.03 | 0.10 |
| FUG1 | Plant-wide Fugitive Emissions | PM | 0.91 | 3.97 |
| | | $PM_{10}$ | 0.91 | 3.97 |
| | | $PM_{2.5}$ | 0.91 | 3.97 |
| | | VOC | 0.43 | 1.88 |
| COOL3 | Line 3 Cooling Section (3 stacks) | PM | 6.74 | 29.52 |
| | | $PM_{10}$ | 6.74 | 29.52 |

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| | | | | |
|---|---|---|---|---|
| | | $PM_{2.5}$ | 6.74 | 29.52 |
| | | VOC | 2.76 | 12.09 |
| HTR6 | Line 3 Stabilizer Thermal Fluid Heater Vent | $NO_x$ | 0.60 | 2.58 |
| | | $SO_2$ | 0.01 | 0.02 |
| | | PM | 0.05 | 0.20 |
| | | $PM_{10}$ | 0.05 | 0.20 |
| | | $PM_{2.5}$ | 0.05 | 0.20 |
| | | CO | 0.49 | 2.16 |
| | | VOC | 0.03 | 0.14 |
| All Source (site-wide) | Various | Single HAP | -- | <10 |
| | | Aggregate HAP | -- | <25 |

(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
$SO_2$ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including $PM_{10}$ and $PM_{2.5}$, as represented
$PM_{10}$ - 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
CO - carbon monoxide
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Dated: June 14, 2013