

Emission Sources - Maximum Allowable Emission Rates

Permit Number 119089

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 | |
|---------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| B93H6510 | Furnace F-6510 | CO | 6.01 | — |
| | | NO _x | 2.52 | — |
| | | PM | 0.54 | — |
| | | PM ₁₀ | 0.54 | — |
| | | PM _{2.5} | 0.54 | — |
| | | SO ₂ | 1.02 | — |
| | | VOC (6) | 0.75 | — |
| | | Ethane | 0.70 | — |
| | | Ethylene | 0.01 | — |
| B93H6510 | Furnace F-6510 Receiving Recycle Stream (Alternate Operating Scenario) | CO | 5.51 | — |
| | | NO _x | 2.52 | — |
| | | PM | 0.50 | — |
| | | PM ₁₀ | 0.50 | — |
| | | PM _{2.5} | 0.50 | — |
| | | SO ₂ | 0.71 | — |
| | | VOC (6) | 0.68 | — |
| | | Ethane | 0.59 | — |
| | | Ethylene | 5.20 | — |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|----------|--|-----------|-------|-------|
| B93H6510 | Furnace F-6510 Annual Emission Rate Cap | CO | — | 27.10 |
| | | NOx | — | 11.66 |
| | | PM | — | 2.45 |
| | | PM10 | — | 2.45 |
| | | PM2.5 | — | 2.45 |
| | | SO2 | — | 0.18 |
| | | VOC (6) | — | 4.49 |
| | | Ethane | — | 3.09 |
| | | Ethylene | — | 4.08 |
| B93F1 | Flare FS-5081 | CO | 41.16 | — |
| | | NOx | 7.90 | — |
| | | SO2 | 2.15 | — |
| | | VOC (6) | 5.48 | — |
| | | Ethane | 0.36 | — |
| | | Ethylene | 0.89 | — |
| | | Propylene | 0.44 | — |
| B93F1 | Flare FS-5081 Receiving Recycle Stream (Alternate Operating Scenario) | CO | 47.43 | — |
| | | NOx | 7.90 | — |
| | | SO2 | 2.15 | — |
| | | VOC (6) | 16.08 | — |
| | | Ethane | 0.56 | — |
| | | Ethylene | 11.29 | — |
| | | Propylene | 0.63 | — |
| B93F1 | Flare FS-5081 Annual Emission Rate Cap | CO | — | 48.54 |
| | | NOx | — | 5.85 |

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| | | | | |
|--|--|-------------------|------|------|
| | | SO ₂ | — | 0.09 |
| | | VOC (7) | — | 7.93 |
| | | Ethane | — | 1.70 |
| | | Ethylene | — | 4.55 |
| | | Propylene | — | 2.13 |
| B93FU3 (5) | Process Area Fugitive Emissions | VOC (7) | 0.25 | 1.07 |
| | | Ethylene | 0.49 | 2.15 |
| | | Propylene | 0.07 | 0.31 |
| B93FU2 (5) | Support Area Fugitive Emissions | VOC (7) | 0.19 | 0.83 |
| | | Ethylene | 0.01 | 0.03 |
| | | Propylene | 0.25 | 1.08 |
| B93BH6933, B93BH6924, B83BH6994 & B83BH6967, B83BH6965, B83BH6966 | Product Loading Break Pot Vents | VOC (8) | (9) | — |
| | | PM | 0.04 | — |
| | | PM ₁₀ | 0.04 | — |
| | | PM _{2.5} | 0.04 | — |
| B93TALCP, B93TALCR | Talc Loading Hourly Emission Rate Cap | PM | 0.02 | — |
| | | PM ₁₀ | 0.02 | — |
| | | PM _{2.5} | 0.02 | — |
| B93TALCP | Packaging Talc System Filter | PM | — | 0.01 |
| | | PM ₁₀ | — | 0.01 |
| | | PM _{2.5} | — | 0.01 |
| B93TALCR | Railcar Loading Talc System Filter | PM | — | 0.01 |
| | | PM ₁₀ | — | 0.01 |
| | | PM _{2.5} | — | 0.01 |
| B93MB1 | Masterbatch Unloading Vent Filter | PM | 0.08 | 0.16 |

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| | | | | |
|---|--|-----------------|-------|-------|
| | | PM10 | 0.08 | 0.16 |
| | | PM2.5 | 0.08 | 0.16 |
| B93HVP | Housekeeping Vacuum Vent Filter - Packaging System | PM | 0.01 | 0.01 |
| | | PM10 | 0.01 | 0.01 |
| | | PM2.5 | 0.01 | 0.01 |
| B93HVR | Housekeeping Vacuum Vent Filter - Railcar System | PM | 0.01 | 0.01 |
| | | PM10 | 0.01 | 0.01 |
| | | PM2.5 | 0.01 | 0.01 |
| B83BHRCL | Product Rail Car Loading Operation Filter | VOC (8) | (9) | — |
| | | PM | 0.04 | — |
| | | PM10 | 0.04 | — |
| | | PM2.5 | 0.04 | — |
| B93BH6933, B93BH6924, B83BH6994 & B83BH6967, B83BH6965, B83BH6966, B83BHRCL | Product Material Handling Emission Cap | VOC (8) | 2.16 | 9.46 |
| | | PM | — | 0.32 |
| | | PM10 | — | 0.32 |
| | | PM2.5 | — | 0.32 |
| B93LR1 | Loading Rack | VOC | 0.12 | 0.01 |
| B93SD6511 | Spin Dryer | VOC | 4.90 | 16.83 |
| B93F1 MSS | Flare FS-1081 MSS | CO | 20.47 | 0.54 |
| | | NO _x | 4.02 | 0.11 |
| | | SO ₂ | 0.16 | 0.01 |
| | | Ethylene | 20.00 | 0.31 |
| | | Propylene | 20.00 | 0.24 |
| | | VOC | 5.50 | 0.01 |
| B93MEFU3 & B93MEFU2 | Opening Equipment for MSS | Ethylene | 50.00 | 0.07 |

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| | | | | |
|--------------------------|--------------------------------|-------------------|-------|------|
| | | Propylene | 50.00 | 0.06 |
| | | VOC | 5.50 | 0.03 |
| B93MEAFU3 & B93MEAFU2 | MSS Attachment A Activities | Ethylene | 0.01 | 0.01 |
| | | Propylene | 0.01 | 0.01 |
| | | VOC | 1.39 | 0.07 |
| | | Acetone | 0.40 | 0.02 |
| | | PM | 0.15 | 0.01 |
| | | PM ₁₀ | 0.15 | 0.01 |
| | | PM _{2.5} | 0.15 | 0.01 |

- (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
- CO - carbon monoxide
- (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) VOC emission rate limits at the furnace and flare do not include ethylene or propylene.
- (7) VOC emission rates for fugitive areas do not include ethylene and propylene.
- (8) VOC emission rate limits at the loading rack, spin dryer and material handling systems (including pellet loading) do not include ethylene or propylene.
- (9) VOC emissions are included in product material handling emission cap.

Date: March 31, 2015