

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9626

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)
RDL-1	Spray Dryer No. 1	PM ₁₀ (5)(6)	0.46	0.93
		SiO ₂ (5)	0.01	0.01
		Na ₂ SO ₄ (5)	0.06	0.12
		NO _x	0.77	1.54
		CO	1.18	2.36
		Formic Acid	0.09	0.19
		Total VOC	0.10	0.20
		SO ₂	0.01	0.01
RDL-2	Spray Dryer No. 2	PM ₁₀ (5)(6)	0.46	0.93
		SiO ₂ (5)	0.01	0.01
		Na ₂ SO ₄ (5)	0.06	0.12
		NO _x	0.77	1.54
		CO	1.18	2.36
		Formic Acid	0.09	0.19
		Total VOC	0.10	0.20
		SO ₂	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

RDL-3	Ammonia Scrubber	PM ₁₀ (5)	0.46	0.70
		SiO ₂ (5)	0.01	0.01
		Na ₂ SO ₄ (5)	0.02	0.03
		NO _x	3.96	2.97
		NH ₃	0.04	0.03
RDL-5	Steam Boiler	PM ₁₀	0.01	0.02
		NO _x	0.05	0.20
		CO	0.04	0.17
		VOC	0.01	0.01
		SO ₂	0.01	0.01
RDL-7	Dust Collector System	PM ₁₀ (5)(6)	0.01	0.01
		SiO ₂ (5)	0.01	0.01
		Na ₂ SO ₄ (5)	0.01	0.01
		NO _x	1.54	3.08
		CO	1.14	4.21
		Formic Acid	0.08	0.33
		Total VOC	0.09	0.36
		SO ₂	0.01	0.01
Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
45951				
RDL-1,RDL-2,RDL-7	Spray Dryer No.1 Spray Dryer No. 2 Dust Collector	Cerric Oxide	0.00029	<0.001

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	System	Cobalt Nitrate	0.00007	<0.001
		Manganese	0.00023	<0.001
		Nickel	0.00009	<0.001
		Vanadium Pentoxide	0.00033	<0.001
		Tungstic Acid	0.00023	<0.001
		Zinc Oxide	0.00012	<0.001
		Zirconium	0.00019	<0.001
RDL-7	Dust Collector System	Ammonium Metavandate	0.00043	<0.001
		Zinc Nitrate	0.00027	<0.001
		Cerium Nitrate	0.00072	<0.001
56753				
RDL-7	Dust Collector System	Silver Nitrate	0.0000471	<0.001
70381				
RDL-7	Dust Collector System	Barium	0.000138	<0.001

72739				
RDL-1,RDL-2,RDL-7	Spray Dryer No.1 Spray Dryer No. 2 Dust Collector System	Aluminum Nitrate	0.00014	<0.001
		Calcium Oxide	0.00093	<0.001
		Gold (III) Oxide	0.00007	<0.001
		Iron Chloride	0.00027	<0.001
		Iron Oxide	0.00012	<0.001

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		Lanthanum Oxide	0.00027	<0.001
		Lanthanum Nitrate	0.00054	<0.001
		Lithium Chloride	0.00028	<0.001
		Manganese Oxide	0.00023	<0.001
		Nickel Nitrate	0.00009	<0.001
		Palladium Chloride	0.00012	<0.001
		Palladium Metal	0.00007	<0.001
		Platinum Chloride	0.00004	<0.001
		Platinum Nitrate	0.00004	<0.001
		Platinum Oxide	0.00004	<0.001
		Rhodium Nitrate	0.00005	<0.001
		Scandium	0.00005	<0.001
		Strontium Nitrate	0.00011	<0.001
		Titanium Dioxide	0.00078	<0.001
		Vanadyl Sulfate	0.0006	<0.001
		Yttrium Chloride	0.00005	<0.001
		Zirconium Chloride	0.00019	<0.001
		Zirconium Nitrate	0.00019	<0.001
		Zirconium Oxide	0.00019	<0.001
RDL-7	Dust Collector System	Calcium Chloride	0.00093	<0.001
		Calcium Nitrate	0.00093	<0.001
		Chromium (III) Oxide	0.00009	<0.001

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		Iridium	0.00005	<0.001
		Magnesium Oxide	0.00093	<0.001
		Magnesium Nitrate	0.00093	<0.001
		Rhenium (III) Chloride	0.00007	<0.001
		Rhenium Oxide	0.00005	<0.001

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

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

101.1

HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10

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

SiO₂ - silicon oxide (crystalline quartz)

Na₂SO₄ - sodium sulfate

NH₃ - ammonia

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Overall PM₁₀ emission rates include SiO₂ and Na₂SO₄ emission rates.

(6) Constituents included in PM₁₀ emissions are defined in Permit-by-Rule registrations 45951, 56753, 70381, and 72739.

Date: _____