

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 18514

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 (6)	
			lbs/hour	TPY (4)
Blade Paint Shop – Building 2:				
K-1	Blade Paint Shop Paint Booths and Wipe Solvent (6)	VOC	30.01	12.75
		ES	23.20	12.07
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
K-1	1.675 MMBtu/hr Natural Gas-Fired Air Makeup Unit (North)	NO <sub>x</sub>	0.17	0.17
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.02	0.02
		CO	0.14	0.14
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
K-1	1.675 MMBtu/hr Natural Gas-Fired Air Makeup Unit (South)	NO <sub>x</sub>	0.17	0.17
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.02	0.02
		CO	0.14	0.14
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
K-1	1.232 MMBtu/hr Replacement Natural Gas-Fired Drying Oven (North)	NO <sub>x</sub>	0.12	0.37
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.01	0.04
		CO	0.10	0.31

Emission Sources - Maximum Allowable Emission Rates

		PM	0.01	0.03
		PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	0.01	0.03
K-1	1.232 MMBtu/hr Replacement Natural Gas-Fired Drying Oven (South)	NO <sub>x</sub>	0.12	0.37
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.01	0.04
		CO	0.10	0.31
		PM	0.01	0.03
		PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	0.01	0.03
K-1	Blade Curing Oven 1.232 MMBtu/hr Natural Gas-Fired Curing Oven	NO <sub>x</sub>	0.12	0.37
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.01	0.04
		CO	0.10	0.31
		PM	0.01	0.03
		PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	0.01	0.03
10	Rotor Touchup Booths (6)	VOC	15.00	3.18
		ES	13.20	1.27
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
BLDG2FUG	Adhesive Prime Painting, Adhesive/Sealant, Mold Release, and Wipe Solvent Fugitives (6)	VOC	16.81	5.48
		ES	14.24	3.47
Helicopter Paint Shop – Building 30:				
23-2(A1-C2) and 23-3(A1-C2)	Helicopter Spray Booths No. 2 and No. 3, and Associated Natural Gas-Fired Air Makeup Units (6)	VOC	34.50	17.05
		ES	15.00	5.17
		PM	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.60	0.60
		SO <sub>2</sub>	0.04	0.04
		TOC	0.07	0.07
		CO	0.50	0.50
		PM (5)	0.05	0.05
		PM <sub>10</sub> (5)	0.05	0.05
		PM <sub>2.5</sub> (5)	0.05	0.05
Paint Mixing and Subassembly Painting – Building 30:				
26	Subassembly Paint Booth (6)	VOC	12.20	2.33
		ES	5.31	0.71
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
97-010, 97-011, and 97-012	Paint Mix Room (6)	VOC	3.32	0.66
		ES	1.14	0.10
BLDG30AMU2	6.86 MMBtu/hr Natural Gas-Fired Air Makeup Unit	NO <sub>x</sub>	2.06	3.01
		SO <sub>2</sub>	<0.01	0.02
		TOC	0.08	0.33
		CO	0.58	2.53
		PM	0.05	0.23
		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.05	0.23
BLDG30AMU3	6.86 MMBtu/hr Natural Gas-Fired Air Makeup Unit	NO <sub>x</sub>	2.06	3.01
		SO <sub>2</sub>	<0.01	0.02
		TOC	0.08	0.33
		CO	0.58	2.53
		PM	0.05	0.23

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.05	0.23
BLDG30FUG	Building 30 Painting, Adhesive/Sealant, and Wipe Solvent Fugitives (6)	VOC	16.85	2.96
		ES	29.75	1.97
Building 36:				
36PNT1	2.0 MMBtu/hr Natural Gas-Fired Air Makeup Unit for Main Booth No. 1	NO <sub>x</sub>	0.20	0.87
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.02	0.10
		CO	0.17	0.73
		PM	0.02	0.07
		PM <sub>10</sub>	0.02	0.07
		PM <sub>2.5</sub>	0.02	0.07
36PNT2	2.0 MMBtu/hr Natural Gas-Fired Air Makeup Unit for Main Booth No. 2	NO <sub>x</sub>	0.20	0.87
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.02	0.10
		CO	0.17	0.73
		PM	0.02	0.07
		PM <sub>10</sub>	0.02	0.07
		PM <sub>2.5</sub>	0.02	0.07
36PNT3	Curing/Drying Oven for Main Booth No. 1 (Process Exhaust)	VOC	4.34	1.84
		ES	2.80	1.05
36PNT4	Curing/Drying Oven for Main Booth No. 2 (Process Exhaust)	VOC	4.34	1.84
		ES	2.80	1.05
36PNT5	1.0 MMBtu/hr Natural Gas-Fired Curing Oven No. 1	NO <sub>x</sub>	0.10	0.43
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.01	0.05
		CO	0.08	0.36
		PM	0.01	0.03
		PM <sub>10</sub>	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>2.5</sub>	0.01	0.03
36PNT6	1.0 MMBtu/hr Natural Gas-Fired Curing Oven No. 2	NO <sub>x</sub>	0.10	0.43
		SO <sub>2</sub>	<0.01	<0.01
		TOC	0.01	0.05
		CO	0.08	0.36
		PM	0.01	0.03
		PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	0.01	0.03
36PNT7	Building 36 Composite Paint Booths (Combined Exhaust from Main Booths Nos. 1 and 2) (6)	VOC	24.70	6.62
		ES	15.01	3.68
		PM	0.10	0.01
		PM <sub>10</sub>	0.10	0.01
		PM <sub>2.5</sub>	0.10	0.01
36PNT8	Building 36 Wing Tip Booth (6)	VOC	2.62	0.71
		ES	1.58	0.39
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
36PNTKIT1	Building 36 Paint Kitchen (6)	VOC	0.05	0.02
		ES	0.01	<0.01
BLDG36FUG	Building 36 Mold Release, Adhesive/Sealant, Priming, Painting, and Wipe Solvent Fugitives (6)	VOC	17.70	3.94
		ES	26.38	3.56
Building 25:				
BLDG25FUG	Building 25 Painting, Equipment Cleanup, and Wipe Solvent Fugitives (6)	VOC	3.70	3.20
		ES	4.10	0.52
25PNT	Building 25 R & D Paint Booth (6)	VOC	5.92	1.00
		ES	1.08	0.18
		PM	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
Building 15:				
BLDG15FUG	Building 15 Painting Fugitives (6)	VOC	2.21	1.72
		ES	1.66	0.19
14	Maintenance Paint Booth (6)	VOC	12.14	6.16
		ES	1.76	0.88
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
Building 21:				
13	Loft/Tooling Spray Booth (6)	VOC	10.95	6.44
		ES	3.22	0.81
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
BLDG21FUG	Building 21 Painting and Wipe Solvent Fugitives (6)	VOC	4.76	2.70
		ES	7.42	0.57
Building 19:				
19-1	R and D Lab Spray Booth (6)	VOC	9.66	1.41
		ES	5.64	0.40
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.08	0.08
		SO <sub>2</sub>	<0.01	<0.01
		TOC	<0.01	0.01
		CO	0.06	0.06
		PM (5)	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub> (5)	<0.01	<0.01
		PM <sub>2.5</sub> (5)	<0.01	<0.01
BLDG19FUG	Building 19 Painting, Adhesive/Sealant, and Mold Release Fugitives (6)	VOC	9.49	0.95
		ES	14.06	0.67
Building 27:				
27PB1	Blade Booth (6)	VOC	4.74	6.50
		ES	3.78	5.23
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
27PK1EXH	Paint Kitchen (6)	VOC	0.04	0.01
		ES	0.33	0.05
27OVEN1	Blade Oven No. 1	VOC	2.37	2.50
		ES	1.89	2.62
27OVEN2	Blade Oven No. 2	VOC	2.37	2.50
		ES	1.89	2.62
B27FUG	Building 27 Hand Wipe Cleaning, Paint Gun Cleaning, and Flush Cleaning Fugitives (6)	VOC	7.95	7.98
		ES	6.59	5.27
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
27PB2	Flush Clean and Transmission Paint Booth (6)	VOC	11.00	9.59
		ES	6.59	4.39
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
27FLUSH	Building 27 Flush Cleaning System (6)	VOC	18.00	13.50
Building 56:				

Emission Sources - Maximum Allowable Emission Rates

56ADPB	Adhesive Mix Room, Adhesive Prime Booth, Conveyor Staging, and Electric Drying Oven (5 Stacks) (6)	VOC	10.00	11.96
		ES	6.00	2.12
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	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
  - ES - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - exempt solvent defined as those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - TOC - total organic compounds from the combustion of natural gas
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
  - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Products of combustion.
- (6) The allowable emission rates include planned maintenance, startup, and shutdown activities. It does not include emissions from facilities that are authorized under a permit by rule by 30 TAC Chapter 106 or are de minimis under 30 TAC § 116.119.

Date: March 21, 2019