

Table 1

Air Pollutant			Emissions Standard		Conversion Constant		Date of Enforcement		Notes	
			Emissions Pipe	Peripheral Boundary	a_1	a_2	New Pollution Sources	Existing Pollution Sources		
Particulate Pollutant (Opacity)			Continuous automatic monitoring: 6 minute monitoring values for daily opacity may not exceed 20% of the accumulated time by over 4 hours.		—	—	Date of promulgation	Date of promulgation	The following equipment are not subject to restrictions: 1.Built-in engines smaller than 2500 cc 2.Equipment for laboratory use 3.Portable welding and soldering equipment 4.Pile drivers 5.Training equipment for visual determination of smoke 6.Equipment for fire drills or accidental fires	
			Visual determination of smoke: Opacity may not exceed 20%; when ending or starting operations, opacity can reach 40%; however, within one hour, the accumulated time for 20% opacity may not exceed 3 minutes.		—	—	Date of promulgation	Date of promulgation		
Particulate Pollutant (Weight and Concentration)			Combustion Process	(1)50 mg/Nm³ (2)100 mg/Nm³	500 µg/Nm³	0.58	2.8×10 ⁻⁴	Standard (1) shall take effect on the 2013.4.25	Standard (2) shall take effect on the 2014.4.30	1.Particulate emission standards apply to: -Pollution sources established on or after April 25, 2013, which shall be considered new pollution sources. -Pollution sources already established, under construction, that have already completed construction project bidding or completed contract signing without bidding, shall be considered existing pollution sources. -But existing pollution sources compliant with the modified condition of Article 20 of the Air Pollution Control Act shall be considered new pollution sources. 2.Standards (1) · (2) · (3) shall use non-diluted dry exhaust volume as the calculation standard, with the except of combustion processes using heating furnaces, cracking furnaces and boilers.
			External Combustion Process	(3)100 mg/Nm³				Standard (3) shall take effect on the 2013.4.25	Standard (3) shall take effect on the 2014.4.30	
Sulfur Oxides (SO _x expressed as SO ₂)	Combustion Process	Gas Fuel	100 ppm		0.3 ppm	1.0	4.9×10 ⁻⁴	Date of promulgation	Date of promulgation	Unless other regulations apply, emission pipe standards for sulfur-emitting factories in the petroleum refining industry shall use 500 ppm as the standard value.
		Liquid Fuel	300 ppm							
		Solid Fuel	300 ppm							
	External Combustion Process		650 ppm							
Sulfuric Acid (SO ₃ or H ₂ SO ₄ expressed as 100% H ₂ SO ₄)	Sulfuric Acid Factories		100 mg/Nm³		50 µg/Nm³	0.05	3.0×10 ⁻⁵	Date of promulgation	Date of promulgation	
	Pollution Sources Other than Sulfuric Acid Factories		200 mg/Nm³							
Nitrogen Oxides (NO _x expressed as NO ₂)	Combustion Equipment	Gas Fuel	(1) 300 ppm		—	—	—	Standard (2) shall take effect nationwide on the date of promulgation.	Standard (2) takes effect of the date of promulgation in Taipei City, Kaohsiung City, New Taipei City, Pingtung County, Taitung County, and Hualien County. Other areas shall be subject to Standard (1).	1.Boilers over 4 tons and other combustion equipment with heating value input of 2.64×10 ⁶ kcal/h or higher. 2.Mixed fuels shall use the following formulas to calculate standard emission values: Standard emission values = Ax+By+Cz Emissions using dry calculations A: Gaseous fuel of NO _x emission standards B: Liquid fuel of NO _x emission standards C: Solid fuel of NO _x emission standards x: Gas fuel as a percentage of total input heating volume y: Liquid fuel as a percentage of total input heating volume z: Solid fuel as a percentage of total input heating volume
			(2) 150 ppm							
		Liquid Fuel	(1) 400 ppm							
			(2) 250 ppm							
		Solid Fuel	(1) 500 ppm							
			(2) 350 ppm							
	Combustion Using Outside Manufacturing Processes		(1) 500 ppm		0.25 ppm	0.60	2.9×10 ⁻⁴			
			(2) 250 ppm							

Carbon Monoxide (CO)	2000 ppm		—	—	—	Date of promulgation	Date of promulgation		
Total Fluoride Content (measured as F ⁻)	10 mg/Nm ³		10 μg/Nm ³	1.17×10 ⁻²	5.7×10 ⁻⁶	Date of promulgation	Date of promulgation		
Hydrogen Chloride (HCl)	80 ppm or 1.8kg/hr or less.		0.1 ppm	0.19	9.0×10 ⁻⁵	Date of promulgation	Date of promulgation		
Chlorine Gas (Cl ₂)	30 ppm		0.02 ppm	0.07	4.0×10 ⁻⁵	Date of promulgation	Date of promulgation		
Ammonia Gas (NH ₃)	Measured in accordance with methods listed in Article 7		1 ppm	0.885	4.3×10 ⁻⁴	Date of promulgation	Date of promulgation		
Hydrogen Sulfide (H ₂ S)	Atmospheric output of 100 ppm		0.1 ppm	0.177	9.0×10 ⁻⁵	Date of promulgation	Date of promulgation		
	Before combustion processing, an entrance concentration of 650 ppm								
Mercaptan (RSH measured as CH ₃ SH)	Measured in accordance with methods listed in Article 7		0.01 ppm	0.025	1.2×10 ⁻⁵	Date of promulgation	Date of promulgation		
Methyl Sulfide [(CH ₃) ₂ S]	Measured in accordance with methods listed in Article 7		0.2 ppm	0.646	3.1×10 ⁻⁴	Date of promulgation	Date of promulgation		
Methyl Disulfide [(CH ₃) ₂ S ₂]	Measured in accordance with methods listed in Article 7		0.1 ppm	0.49	2.4×10 ⁻⁴	Date of promulgation	Date of promulgation		
Monomethylamine [CH ₃ NH ₂]	Measured in accordance with methods listed in Article 7		0.02 ppm	0.032	1.6×10 ⁻⁵	Date of promulgation	Date of promulgation		
Dimethylamine [(CH ₃) ₂ NH]	Measured in accordance with methods listed in Article 7		0.02 ppm	0.047	2.3×10 ⁻⁵	Date of promulgation	Date of promulgation		
Trimethylamine [(CH ₃) ₃ N]	Measured in accordance with methods listed in Article 7		0.02 ppm	0.061	3.0×10 ⁻⁵	Date of promulgation	Date of promulgation		
Carbon Disulfide (CS ₂)	Measured in accordance with methods listed in Article 7		0.4 ppm	1.58	7.7×10 ⁻⁴	Date of promulgation	Date of promulgation		
Asbestos and Substances Containing Asbestos	Invisible to the naked eye		Invisible to the naked eye	—	—	Date of promulgation	Date of promulgation		
Other Air Pollutants (See Table 2)	Measured in accordance with methods listed in Article 7		<i>A</i> /50	8.5×10 ⁻³ × <i>A</i>	1.1×10 ⁻⁵ × <i>A</i>	Date of promulgation	Date of promulgation	<i>A</i> : Table 2 lists the standards for allowable concentrations of hazardous substances in the air in environments with labor operations, in units of mg/m ³).	
Malodorous pollutants	Height <i>h</i> (meters)	Standard value	Areas	Standard value	—	—	Emissions pipe and peripheral boundary emissions standards (2) and (3) shall take effect on the date of promulgation.	1. Emissions pipe emissions standards shall take effect one year after the date of promulgation. 2. Peripheral boundary standards (1) and (3) shall take effect on the date of promulgation.	1. The concentrations of malodorous pollutants are dimensionless mathematical operator values, so there are no units of measure. 2. Definition of an industrial park: Land for industrial use of an area, part of an industrial zone or urban planning industrial park. 3. Definition of an agricultural district: A. Urban planning agricultural districts, or zone delineations according to law, which have been determined by the urban planning competent authority to be part of an agricultural business zone. B. According to the Regional Planning Act, special agricultural districts, common agricultural districts, forest areas and other areas in which land is designated for farming and grazing, aquiculture, forestry, and land for use for other special industrial purposes including agriculture and livestock, and wastewater treatment facilities. C. Other land as determined by the central competent authority in consultation with the central agricultural industry competent authority. 4. Peripheral boundary emission standards (2) are applicable to new pollution sources located in industrial parks or agricultural districts. However, pollution sources located in existing livestock farms in agricultural districts that have been upgraded but
	<i>h</i> ≤18	1000	Industrial Parks and Agricultural	(1) 50 (2) 30					
	18< <i>h</i> ≤50	2000							
	50< <i>h</i> ≤100	4000							
	<i>h</i> >100	The emissions pipe concentration that estimated by the air quality model in compliance with the peripheral boundary standards for the area influenced, and the concentration value can be used as the standard value after approval by the central competent authority.	Areas Other than Industrial Parks and Agricultural Districts	(3) 10					

									<p>that are operating on an unchanged scale shall be subject to emission standards for existing pollution sources.</p> <p>5. Standards applied to all sampling locations shall serve as supporting data.</p> <p>6. New pollution sources subject to malodorous pollutant emission standards shall refer to pollution sources established after September 13, 2007 (inclusive); existing pollution sources refer to pollution sources established before September 13, 2007.</p>
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