

Annex C

A Comparison between Hong Kong's Proposed New AQOs, WHO and Overseas Standards / Guidelines

Pollutant	Avg Time	Proposed New Hong Kong AQOs		WHO AQGs $\mu\text{g}/\text{m}^3$	USA		EU		UK		Australia		Japan		Singapore ^[7]	
		$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed		$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g} / \text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed
Sulphur Dioxide	10-min	500	3	500	-	-	-	-	266 ^[1]	35	-	-	-	-	-	-
	1-hour	-	-	-	-	-	350	24	350	24	524	1	262	-	-	-
	24-hour	125	3	20 (IT-1: 125, IT-2: 50) ^[2]	365	1	125	3	125	3	210	1	105	7 ^[6]	365	1
	Annual	-	-	-	80	NA	-	-	-	-	52	NA	-	-	80	NA
Respirable Suspended Particulate (PM10)	24-hour	100	9	50 (IT-1: 150, IT-2: 100, IT-3: 75)	150	3 times in 3 years	50	35	50	35	50	5	100	7 ^[6]	150	3 times in 3 years
	Annual	50	0	20 (IT-1: 70, IT-2: 50, IT-3: 30)	-	-	40	NA	40	NA	-	-	-	-	-	-
Fine Suspended Particulate (PM2.5)	24-hour	75	9	25 (IT-1: 75, IT-2: 50, IT-3: 37.5)	35	3-y avg of 98 th percent-ile	-	-	-	-	25 [3]	NA	-	-	35	3-y avg of 98 th percent-ile
	Annual	35	0	10 (IT-1: 35, IT-2: 25, IT-3: 15)	15 ^[4]	NA	25	NA	25	NA	8 ^[3]	NA	-	-	15 ^[4]	NA

Pollutant	Avg Time	Proposed New Hong Kong AQOs		WHO AQGs $\mu\text{g}/\text{m}^3$	USA		EU		UK		Australia		Japan		Singapore ^[7]	
		$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed		$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g} / \text{m}^3$	No. of Exceed-ences Allowed	$\mu\text{g}/\text{m}^3$	No. of Exceed-ences Allowed
Nitrogen Dioxide	1-hour	200	18	200	-	-	200	18	200	18	226	1	-	-	-	-
	24-hour	-	-	-	-	-	-	-	-	-	-	-	75-113	7	-	-
	Annual	40	0	40	100	NA	40	NA	40	NA	57	NA	-	-	100	NA
Ozone	1-hour	-	-	-	-	-	-	-	-	-	200	1	120	-	-	-
	4-hour	-	-	-	-	-	-	-	-	-	160	1	-	-	-	-
	8-hour	160	9	100 (High levels: 240, IT-1: 160)	147	3-year of 4th highest values	120	25	100	10	-	-	-	-	147	3-year of 4th highest values
Carbon Monoxide	15-min	-	-	100,000	-	-	-	-	-	-	-	-	-	-	-	-
	30-min	-	-	60,000	-	-	-	-	-	-	-	-	-	-	-	-
	1-hour	30,000	-	30,000	40,000	1	-	-	-	-	-	-	23,000	7 ^[6]	40,000	1
	8-hour	10,000	-	10,000	10,000	1	10,000	0	10,000	0	10,000	1	-	-	10,000	1
Lead	3-month	-	-	-	1.5	NA	-	-	-	-	-	-	-	-	1.5	NA
	Annual	0.5	-	0.5	0.15 ^[5]	NA	0.5	NA	0.25	NA	0.5	NA	-	-	0.15 ^[5]	NA

Note:

- [1] 15-minute average.
- [2] IT stands for interim target.
- [3] Advisory reporting standard only, not air quality standard.
- [4] 3-year average of the weighted annual mean.
- [5] Rolling 3-month average.
- [6] Non-attainment only when exceeding the standard on more than two consecutive days.
- [7] Singapore does not have own air quality standard. The National Environment Agency uses US NAAQS to assess the ambient air quality in Singapore.