

Environmental Protection  
Department

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**Agreement No.  
CE57/2006 (EP) Review  
of the Air Quality  
Objectives and  
Development of a Long  
Term Air Quality  
Strategy for Hong Kong  
- Feasibility Study**

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Appendix E

Hypothetical Scenario

ARUP



## E1 Hypothetical Scenario

**Table E.1** presents predicted number of exceedences of a hypothetical scenario with all emissions from man-made sources of Hong Kong and PRD removed. The modelling results show that the predicted concentrations of some air pollutants such as PM<sub>10</sub>, PM<sub>2.5</sub> and ozone would still exceed the respective WHO AQG. It appears that air pollution coming from sources outside the PRD regions would also affect the air quality of Hong Kong significantly. To achieve the ultimate WHO AQG, there might also be a need to explore joint efforts and cooperation with regions farther away from Hong Kong.

**Table E.1:** Predicted no. of exceedences upon implementation of Phase I measures

Air Pollutant	Averaging time	Concentration (ug/m <sup>3</sup> )	Predicted No. of Exceedences (with all emissions of Hong Kong and PRD removed)
SO <sub>2</sub>	10-min	AQG: 500	0
	24-hour	IT-1:125	0
		IT-2: 50	0
		AQG: 20	1
RSP	24-hour	IT-1: 150	0
		IT-2: 100	0
		IT-3: 75	10
		AQG: 50	145
	Annual	AQG: 55	✓
		IT-2: 50	✓
		IT-3: 30	✗
		AQG: 20	✗
FSP	24-hour	IT-1: 75	0
		IT-2: 50	16
		IT-3: 37.5	129
		AQG: 25	196
	Annual	IT-1: 35	✓
		IT-2: 25	✗
		IT-3: 15	✗
		AQG: 10	✗
NO <sub>2</sub>	1-hour	AQG: 200	0
	Annual	AQG: 40	✓
Ozone	8-hr	IT-1: 160	0
		AQG: 100	9