Summary of Decisions of the Structural Engineering Committee
SEC Meeting 11/2014 held on 5.11.2014

(a) Case 38/2014

Issue: Methodology Report for Wind Tunnel Test

Recommendation: To accept the proposed parameters for wind tunnel test of the proposed development with a view to determine the external wind pressure on the claddings and the wind load on the roof trusses:

(1) Topographic Model

(i) Model scale: 1: 4000.

(ii) Extend of model: topographic condition within a radius of 8.8km from the subject site.

(2) Proximity Model

(i) Model scale: 1: 300.

(ii) Extend of model: all existing buildings within a radius of 660m from the subject site including the proposed building.

(3) Wind Climate Study Results

Directional characteristics of typhoons affecting HK based on a Monte Carlo simulation of storms passing within 250km of HK.

(4) Existing condition and possible removal of adjacent/surrounding buildings that is considered significant influence

9 building groups were proposed to be removed in the Proximity Model.

(5) Wind Loads Adopted in Superstructure Design

The following in superstructural design was proposed:

The finally adopted peak design combined wind moment will not be less than 70% of the peak design wind moment based on code calculation as derived from of the design values given in the Code of Practice on Wind Effects in Hong Kong 2004 (the Wind Code).

Decision: Having noted the background information and arguments together with RSE's supervision arrangement, members endorsed the recommendation.