Summary of Decisions of the Structural Engineering Committee SEC Meeting 7/2016 held on 7.7.2016

Case 19/2016

Recommendation:

Issue: Methodology Report for Wind Tunnel Test

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tunnel test of the proposed development at the proposed development:

(1) Topographic Model

Model scale: 1: 4,000

(2) Proximity Model

(i) Model scale: 1: 200

(ii) Extent of model: all known existing and proposed surrounding buildings and structures within a radius of 500m from the subject site will be modeled.

To accept the following methodology and parameters for wind

(3) Wind Climate Study Results

Directional characteristics of typhoons affecting HK based on a Monte Carlo simulation of storms passing within 250km of HK, conducted by Applied Research Associates, Inc. (ARA).

(4) Removal of adjacent buildings that could provide significant shelter

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

(5) Design Wind Pressures on Cladding

The following in the superstructure design were proposed:

- (i) The finally adopted peak design wind pressures will not be less than 70% of the peak design wind pressures based on code calculation as derived from the design values given in the Code of Practice on Wind Effects in Hong Kong 2004 (the Wind Code);
- (ii) If the peak design wind pressures determined in the wind tunnel test are found greater than the peak design wind pressures based on code calculation as derived from the design values given in the Wind Code, the peak design wind pressures determined in the wind tunnel test will be adopted for design.

Decision:

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