

Summary of Decisions of the Structural Engineering Committee
SEC Meeting 12/2014 held on 17.11.2014

(a) Case 35/2014

Issue: Methodology Report for Wind Tunnel Test

Recommendation: To accept the proposed parameters for wind tunnel test of the proposed development:

(1) Topographic Model

Model scale: 1: 4000

(2) Proximity Model

(i) Model scale: 1: 500

(ii) Extent of model: all known existing and proposed surrounding buildings and structures within a radius of 750 m from the subject site will be modelled.

(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) Possible removal of adjacent / surrounding buildings that is considered significant influence

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

(5) Wind Loads Adopted in Superstructure Design

The following in the superstructural design were proposed:

The wind tunnel test result will be compared with the “Code of Practice on Wind Effects in Hong Kong 2004”. If the peak combined base moment from the wind tunnel test result is less than 70% of the base moment along the major principal axis by using the Hong Kong Wind Code. The static wind loads at each storey from the wind tunnel test result will scale up such that the peak combined base moment reaches to 70% of the base moment along the major principal axis of the development computed by using the Hong Kong Wind Code.

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