

Summary of Decisions of the Structural Engineering Committee  
SEC 5/2007 held on 12.11.2007

(a) Case 5/2007

Issue : Suction Can foundation design and test proposal.

Recommendation :

- (1) To accept the use of “suction can” as foundation for an offshore meteorological mast;
- (2) To accept the in-situ tension test on a trial suction can (with reduced diameter) for verification of design shaft friction/cohesion; and
- (3) To accept laboratory centrifuge model test proposals for checking the suction can performance under compression load.

Decision : Members endorsed the recommendations subject to the following conditions:

- (a) the proposed in-situ tension test to be carried out and found satisfactory;
- (b) the proposed laboratory centrifuge test to be carried out and found satisfactory;
- (c) suitable evidence for verification of the as-built conditions (in particular the penetration into sand layer) of each foundation to be certified by the Contractor, AP and RSE and submitted to BD prior to the consent application for the commencement of the construction above the tripod substructure;
- (d) the proposed long term monitoring of the structure to be carried out and the monitoring readings, together with a statement confirming the satisfactory performance of the structure and foundations by AP and RSE, to be submitted at monthly interval; and
- (e) a review of the performance of the structure and foundations to be carried out and a report to be submitted by AP and RSE to BD within 14 days if the monitoring readings reach or exceed the action levels, or abnormal readings are recorded, or as directed by BD.