



## **A newly developed soft ware for offshore surveying support of constructional marine spreads**

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The surveying support of constructional marine spreads demands precision. The new software presented in this paper reflects that demand and is an alternative solution to present survey programs. This software takes into account the needs of survey spreads for Anchor Handling, Barge and Tug management systems, Pipe laying vessel positioning support, marine construction installation survey support and mooring design.

The first step on the software is to establish a CAD editor family with survey datum and map projection systems. Secondly, hardware has been designed to include all survey equipment and radio telemetry to the software with a proper data transition rate. Finally, the display of software as a marine spread and construction position layout with both monitoring capability and the capacity to add charts and maps as background with technical toolbars like CAD framework is presented. This software is an accurate approach to marine construction installation by all users during the offshore operations.

Asia AKAM Industry Company as a first Iranian offshore surveying company and a subsidiary of Iranian Offshore Engineering and Construction Company (I.O.E.C) has sponsored the development of this soft ware during the two years commencing early 2006. The completed software will be presented in a detailed digital and graphical display format.