Software Solution for Anchor Handling Operations

The EIVA NaviSuite Beka is a scalable and user-friendly software solution that is developed to increase the efficiency and safety of anchor handling operations during rig move and barge management projects. The EIVA NaviSuite software suite now includes a dedicated solution for anchor handling operations that offers advanced catenary simulation. This assures users of data they can trust and a complete picture of the entire operation.

The solution combines anchor handling and catenary data acquisition, ROV inspection, and reporting in a single tool that covers both operation planning and execution. This simplifies the work process and reduces the risk of calculation errors that comes with using multiple software tools.

Advanced Catenary Algorithm

The advanced catenary algorithm behind the catenary feature of NaviSuite Beka offers virtually instant anchor chain catenary simulation. The algorithm computes the physical behaviour of the defined anchor chains taking into account material weight, drag, buoyancy, elasticity, etc. Also, as it is a 3D algorithm, it takes into account water currents, among others.

The algorithm has been developed and theoretically verified by the non-profit independent Danish research organisation the Alexandra Institute and tested in real-life operations by the survey company iSURVEY.

Flexible Operation Setup

NaviSuite Beka allows the user to choose between various operation management setups. For example, the entire operation can be managed from the rig/barge. Alternatively, it allows users to co-manage the operation with one or more tug operators.

On the Fly

It is possible to make changes to all parameters and plan the next steps of the operation on the fly and the changes will immediately be visible on the screen. The information can be shared with the tug operators as well as shore-based staff who are carrying out support and monitoring.

The entire operation is managed via a centralised rig/barge server and command centre, which reduces mobilisation and operation costs. You can design or import multiple runlines and waypoints, as well as manage anchor status and locations of up to 16 anchors manually or automatically.

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