New methods of laying seabed tubes

Institution of Civil Engineers, Northern Ireland Association - New methods for aquafarm mooring

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The loaded carousel could be transported to the installation site using one of the heavy lift semi submersible transport vessels typically used for transporting large production decks, hulls and rigs Figure 1. The use of grouting has the advantage that this can be carried out remotely and does not require the use of divers. The catenary length before the pipeline rests at the seabed can become quite long, due to the water depth.

Alternative Pipelay Methods

These embedment depths are comparatively shallow and the piling forces are expected to be comparatively low compared to many onshore applications the latter of which are commonly installed in a wide range of soils up to 20 metres deep, or much more. The advantage of utilising the main tubes of the boat landings as the concentric support tubes is that little or no additional steel work is required, other than the J-tubes themselves, thus leading to significant savings in secondary steel and overall foundation costs. BRIEF DESCRIPTION OF THE DRAWINGS The following is a description of a specific embodiment of the invention, reference being made to the accompanying drawings in which: FIG.

Mitigating risks during subsea cable installation

The conduit exit point is at a location where the CLV can set up to receive the end of a pre-installed winch wire to be connected to the cable end. The main structure can comprise any offshore structure, e. Significant money is being invested by the major contractors into refining the existing technologies but little is being done to explore alternate methods that may offer significant cost benefits.

Static analysis of deepwater lazy

Alternatively many other fabrication methods are possible. Additional supports may be required to support the top of the upper section 1, especially if extension pieces are added after initial installation.

Immersed

Due to the size it is more probable that this concept would be based around a carousel than a reel.

Static analysis of deepwater lazy

Rubber seals are also a part of the ends of each element. Thus, in the same way, the transition piece 5a can come pre-installed with the J-tube and its attendant top support s. Potential challenges will be hydrodynamic forces, both the steady-state drag and the cyclic ones, including vortex-induced vibrations.

Immersed

In this way, the grouted connection still provides horizontal support but only limited or no vertical support for the top of the J-tube.

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