CASE STUDY

Analysis & Project Engineering Support

PDi was engaged by DOF Subsea to provide analysis and project engineering support for the installation and Lift & Shift of various flexible jumpers, with water depths ranging from approximately 200m to over 1,600m.

REGULATORY COMPLIANCE

COST EFFICIENCY

ENVIRONMENTAL RESPONSIBILITY

THE CHALLENGE

PDi were initially contracted by DOF to provide project engineering and discipline engineering support for the installation of flexible jumpers between an XMT and manifold.

Following the completion of the initial scopes, PDi's discipline engineering responsibilities were expanded to include analysis engineering for an additional 12 flexible jumpers. These scopes included recover, installation and Lift & Shift analyses

Project Engineering Scope

Project engineering scope included:

- Development of installation procedures.
- Offshore support during installation campaign.
- Post demobilization as-built/project close-out support.

Flexible Jumpers Scope

As part of the installation of the 2nd end of the flexible jumpers, 2 types of analysis were performed to enhance operational flexibility during offshore campaigns.

The two analyses were docking the 2nd end and controlling the gooseneck orientation during the landing onto subsea structures using camel back rigging arrangement and chain hoist rigging.

In addition to the primary installation engineering scopes, the PDi analysis team was engaged multiple times during the offshore campaigns to provide timely analysis engineering support at short notice which was crucial to ensure the smooth progression of the operations without delays.

Discipline Engineering Scope

Discipline engineering scope included the analysis of the following installation stages:

- 1st end overboarding
- 2nd end overboarding
- Jumper deployment and cross-haul.
- Docking of the 1st end gooseneck.
- Lay away and dock 2nd end gooseneck

CONCLUSION

PDi successfully delivered comprehensive engineering support throughout the project, adapting to expanded responsibilities and providing critical analysis for the installation of flexible jumpers. Their timely on-site and offshore assistance ensured smooth operations, avoiding delays and enhancing project efficiency. From initial engineering to offshore support, PDi's expertise and proactive problem-solving were key factors in the project's success.

TATTVA GROUP

Project Development International Ltd
PDi House, 137 Gallowgate
Aberdeen, AB25 1BU
United Kingdom

pdi-ltd.com reception@pdi-ltd.com +44(0)1224 269060