



## MARINE CONSTRUCTION - Asia

### WHP and Pipeline Installation



#### Project Details

**Location:** Gulf of Thailand  
**Water Depth:** 70m  
**Date:** March to July 2017  
**Client:** Solstad Offshore



#### Scope Of Work

iSURVEY was contracted by Solstad Offshore Asia Pacific Pte Ltd to provide personnel and survey services onboard the DLB NORCE ENDEVOUR, a pipelay and heavy lift vessel for the installation of nine Well Head Platforms (WHP) and ten in field pipelines.



Final As Built Position observations

iSURVEY scope of work involved provision of:

- Survey and positioning support for the DLB NORCE ENDEVOUR marine construction activities
- Real time positioning and heading monitoring for jacket set down and installation.
- Levelling of Jacket and Decks and pile cut off measurements.
- Positioning of the ROV for pre emplacements and debris surveys.
- Positioning of pipeline start up and laydown heads within project specified target box tolerances.



DLB NORCE ENDEVOUR

A full Barge Management System (BMS) using iNAV® was installed onboard the DLB NORCE ENDEVOUR. iSAFE® Tug systems (TMS) were installed onboard the attendant AHT's. The BMS provided multi distributed displays throughout the vessel to key locations providing an overview of all ongoing activities. A team of iSURVEY personnel ensured that all operations were conducted safely and within the specified targets at all times.



Levelling observations on the Jacket

The iSURVEY Jacket Positioning System (JPS) is a custom enclosure, self contained with GNSS, Telemetry, Gyro, and battery power source. Systems are warmed up by AC power on the DLB, and the DC supply can then support up to six hours operation. The JPS enables the Jacket position and heading to be accurately monitored, enabling the quick and efficient installation of the Jacket.

The iSAFE® system provides live graphical and numerical information about the AHT's position. Target anchor drop locations are relayed via radio telemetry link from the iNAV® BMS onboard the DLB.

Subsea positioning was provided using the DLB HiPap USBL system, with a back up USBL system provided. This allowed ROV positions to be displayed and recorded when deployed to assist during pipelay and jacket installation

#### NORWAY

iSURVEY Group AS  
 iSURVEY AS  
 Billingstadsletta 14  
 NO-1396 Billingstad  
 Norway  
 +47 4541 4100  
 norway@isurvey-group.com

[sales@isurvey-group.com](mailto:sales@isurvey-group.com)

#### UNITED KINGDOM

iSURVEY Offshore Limited  
 Banchory Business Centre,  
 Burn O'Bennie Road, Banchory,  
 Aberdeenshire, AB31 5ZU,  
 United Kingdom  
 +44 (0)1224 418210  
 uk@isurvey-group.com

#### SINGAPORE

iSURVEY Pte Ltd  
 22 Pandan Road  
 Singapore 609274

+65 6513 0589  
 singapore@isurvey-group.com

[www.isurvey-group.com](http://www.isurvey-group.com)

