

# PROJECT SHEET

**NORDSTREAM II, GERMANY**  
MARINE SUPPORT SERVICE

## BOSKALIS

Royal Boskalis Westminster is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength.

With our committed professionals in engineering, project management and operations, 900 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients in the offshore industry push boundaries and create new horizons.

## INTRODUCTION

Allseas Engineering had been awarded with the contract to support partly with construction of the offshore natural gas transmission system comprising two 48" diameter pipelines from Russia to the Baltic through Germany (NPSP2). The installation of the NPSP2 pipeline has been performed by Charterers pipelay vessels: Solitaire, Pioneering Spirit and Audacia.

## FEATURES

Client	Allseas Engineering
Location	Mukran, Germany
Period	August 2018 - December 2018
Contractor	BOTS NV
Entity	TMS
Contract	BIMCO Supplytime
Equipment	AHTS Union Manta, AHTS Union Bear, AHTS Union Lynx, AHT Union Princess ROV equipment, Survey equipment



**A** PLV Audacia  
**B** Location map

**SCOPE**

Boskalis was awarded by Allseas Engineering to perform anchor handling assistance and survey and ROV support during the pipelay work conducted by the PLV Audacia. The southern section of the two pipelines was installed by PLV Audacia without utilizing her DP system. This was a requirement from Charterers client and the vessel had therefore been fitted with 10 mooring spread to maintain position during the pipelay operation. The work was performed in German waters from Global KP point 1197 to 1159 – Country KP 17 – 55 in a water depth ranging from 17 to 25 m.

This required anchor handlers above 150 Tonnes Bollard Pull which were capable of handling

- 9 x 18mT Stevshark Rex anchors
- 2 x 16mT Stevshark anchors

Furthermore Boskalis provided in-house survey and ROV equipment in order to

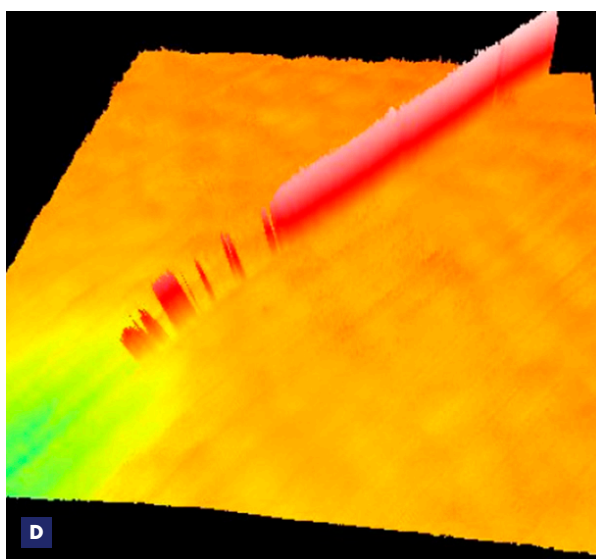
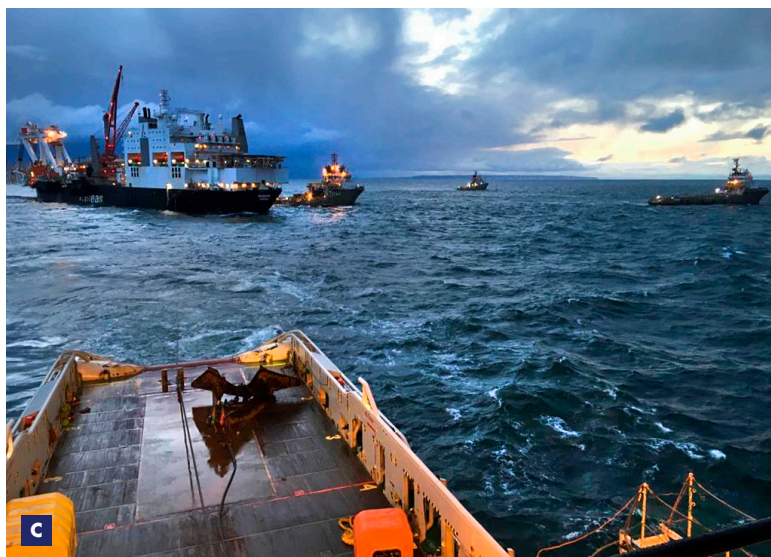
- Perform TDM (Touchdown monitoring) using a pole mounted MBES (multibeam echosounder)
- Perform TDM with the ROV
- Check and confirm anchor catenaries using either MBES or ROV when requested by PLV Audacia. For this scope the 205TBP AHTS Union Manta was outfitted with survey and ROV equipment. Also dedicated shore support in Mukran was provided to ensure an efficient operation.

**SAFETY**

With all Boskalis’ projects safety is an essential part. The project was executed with a good safety performance of the marine crew and project management. The marine spread was manned to perform 24/7 anchor handling and survey duties. Also dedicated shore support in Mukran was provided to ensure a efficient operation.

**CONCLUSION**

The marine spread exceeded CLIENT’s expectations while maintaining the highest safety and sustainability standards, Boskalis through combining various inhouse disciplines and due to its diverse and large fleet size was able to provide an all round solution as requested by our client.



**C** 4 Boskalis anchor handlers in action for PLV Audacia  
**D** Touchdown monitoring example of pipe by MBES