

PROJECT SHEET

UXOCONTROL

UXOcontrol B.V. is a 100% brand of N-Sea and BODAC B.V. supporting the Offshore Industry in UXO Risk management for many years on Strategy of Explosive Remnants of War and CBRNE on land and underwater.

The Company has extensive experience with landfall and marine UXO Surveys, Investigation, Clearance and Explosive Engineering.

Our experts have first-hand experience in varying international locations, working closely with our client and execute the work ourselves or in collaboration with either local authorities, international Mine Action agencies or Joint military operations.

UXOcontrol can deliver a total package of Risk Mitigation for marine projects on Unexploded Ordnance. The execution of our 9-phase framework strategy brings your project under control and is done by passionate and competent employers with quality appliances. The company is committed to new technology with highly trained field operators and stringent quality standards through its accreditation. We understand the requirements of reporting and evaluation in Explosive Ordnance management to deliver an UXO clearance certificate based on as low as reasonably practicable (ALARP) principle.

WE LISTEN THEN DELIVER

N-SEA

N-Sea is an integrated subsea service provider. We offer a wide range of Survey and IMR services to civil contracting communities and the energy sector, focusing on the international oil and gas and renewable industry. We meet our clients' needs. How? By providing effective and cost-efficient solutions for subsea assets and infrastructure, considering a safe environment. N-Sea delivers subsea: from installation to decommissioning, from inspection through to maintenance management, we help assess the state of subsea assets and provide the necessary service throughout their entire lifecycle.

“EXECUTING OUR STRATEGY IN AN IRREVERSIBLE WAY”

We have the ambition to be the go-to total subsea solutions provider. We want to create a sustainable business, be less vulnerable and increase our profitability.

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DOGGER BANK

BOULDER AND DEBRIS RELOCATION WORKS

PROJECT DESCRIPTION

After successful completion of the UXO inspection and identification campaign earlier in 2021, UXOcontrol was contracted again by Dogger Bank Wind Farm (SSE & Equinor) to undertake boulder relocation activities at the Dogger Bank A and B export route and WTG areas.

The vessel Pathfinder was mobilized with the grab system consisting of LARS, control cabin and workshop on the aft of the vessel. The grab is deployed by the LARS and can be accurately positioned above the boulder by using the thrusters.

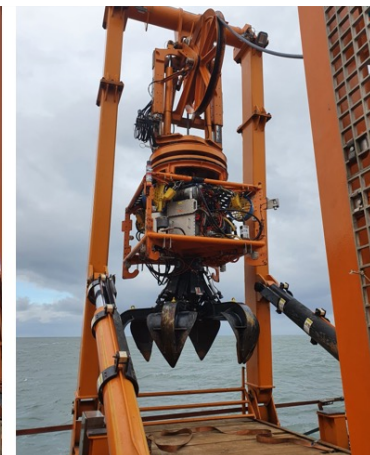
The high technological system results in a fast boulder relocation process. Depending on the circumstances between 50 up to 130 boulders per 24 hrs have been relocated. The workability of the vessel is improved by using the active

heave compensation on the winch which results in keeping the grab at a stable working depth.

Boulders were relocated +/- 21 meter from the planned export cable route and outside the 400mx400m clearance boxes at each WTG location. In total 1522 boulders have been relocated including 2 debris items.

FEATURES

Client	Dogger Bank Wind Farm A & B (SSE & Equinor)
Location	North Sea, UK sector
Period	October – December 2021
Assets	OSV Pathfinder
Extra	UTROV grab system for boulder relocation



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SHEQ

Aligned SHEQ goals are fundamental to the way in which N-Sea operates. We encourage and train our people across our worksites, providing them with the support and assistance required to operate safely.

“WE GENUINELY CARE. OUR TARGET IS NO HARM TO PERSONNEL AND NO IMPACT TO THE ENVIRONMENT”

Our safety initiatives are a key driver to ensuring we achieve the highest safety standards:

- by applying visible leadership, workforce engagement and effective intervention
- with a minimum impact on production
- considering environmental factors
- without compromising quality

N-Sea’s objective is to provide an environment where all those involved in/or are affected by the activities we perform, are safe and empowered to stop the job if they feel it is unsafe.

We are driven to perform in accordance with the industry best practices and meet the requirements of ISO 9001 (Quality Management), ISO 14001 (Environmental Management) and ISO 45001 (Occupational Health & Safety).

We strengthen the above through our distinctive four-pillar approach:

- SAFE** Safety excellence is at the heart of everything we do
- TOGETHER** We work and operate as one group, teamwork is our strength
- SOUND** We listen then deliver
- SWIFT** We understand the priorities of our Clients

DOGGER BANK BOULDER AND DEBRIS RELOCATION WORKS



A Deployment of ROV Grab **B** LARS including grab system **C** Boulder located on the seabed **D** Pathfinder with UTROV installed on the aft