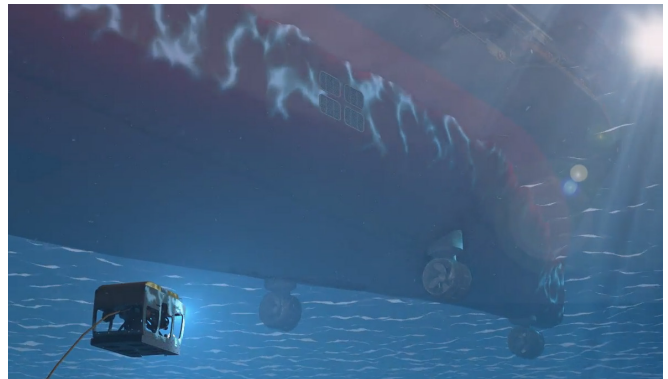


Underwater Inspection in Lieu of Drydocking (UWILD)

Meet your inspection requirements while staying on critical path

Fulfill a broad scope of inspection requirements with our unmatched suite of underwater inspection in lieu of drydocking (UWILD) services. We use the latest remotely operated vehicles (ROVs), imaging, in-house data management systems, and tooling technologies to deliver safer, more efficient subsea inspections for all mobile offshore unit (MOU) types. Leveraging our experience and already deployed resources (incumbent ROVs and personnel) to deliver services remotely further maximizes cost reduction opportunities.



FEATURES

Set ROV shallow water safe work practice industry standards for UWILDs

ROV-focused UWILDs and asset integrity capabilities

Global operating bases and local support in many offshore regions

Complete Solutions for Class Inspection

Take advantage of our diverse capabilities—from different-sized ROVs to custom tooling options that extend over a global footprint—to meet inspection requirements for floating storage, production, and offloading vessels (FPSOs), drill ships, semi-submersibles, tension leg platforms (TLPs), spars, and more.

Based on your scope of work and operational schedule, we work with you to design the most efficient inspection plan possible. We deliver project specific services using incumbent ROV systems, observation class ROVs, or vessel supported work class ROVs. We help you manage the entire special periodic survey (SPS) and UWILD inspection processes, from planning and execution to the final report, including services such as:

- » General visual inspection (GVI)
- » Close visual inspection (CVI)
- » Internal and external inspection of ship side skin valves
- » Subsea non-destructive testing (NDT) including ultrasonic testing (UT), alternating current field measurement (ACFM), and cathodic protection (CP) measurements
- » Ballast tank inspections (GVI, CVI, and UT)
- » Sea chest, thruster, moon pool, and hull cleaning
- » Dual isolation plugging of ship side skin valves for repair or replacement
- » Mooring line cleaning, inspection, Advanced Subsea Visual Metrology (ASVM), and analysis
- » Class approved Remote UWILD data streaming and remote inspection services



Leading ROV Capabilities

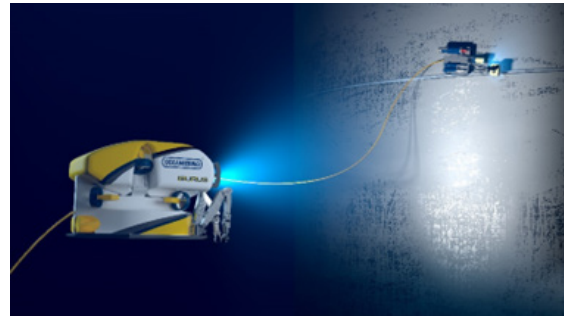
Our extensive fleet of ROVs enables us to tailor programs that meet your unique needs related to scheduling, incumbent asset availability, and inspection requirements. Selecting the correct ROV system is imperative to executing inspection scopes safely, efficiently, and cost effectively.



UWILD Services

High-Definition Hull Inspection

Capture high-resolution images quickly during GVI and CVI operations with high-definition cameras. In hard-to-access areas, achieve visibility of thruster-to-hull connections, pipeline interiors, rotational equipment, and moon pool corners. Render sub millimeter 3D-imaging accuracy with our Advanced Subsea Visual Metrology (ASVM) solution, enhancing our service offering by enabling the acquisition of high-quality images and 4K video during inspection and surveys.



Efficient Hull Cleaning

Effectively spot clean areas of hull plating and weld seams, thrusters, sea chest gratings, and hull markings with an ROV- or deck-mounted water blaster or rotary cleaning tool. Our rotary cleaning tools along with our variable water blasting units provide alternative options that deliver a safe cleaning method that avoids damage to marine coatings and steel structures.



Valve Inspection Methods

Access sea water suction and other ship side valves internally using a borescope and valve inspection kit or a micro ROV. Access ship side valves externally utilizing an ROV mounted float camera or probe camera. Both approaches support the capture of valuable data, confirming the condition of your asset's valves.



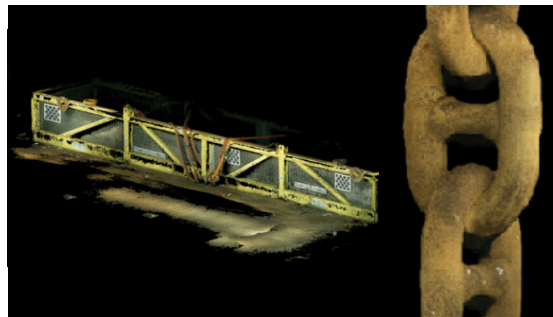
Dual Isolation Valve Plugging

Achieve an effective barrier from the sea with our dual-isolation plugging packages. An inflatable plug combined with a flanged gasket plate installed on the vessel hull provides reliable protection from external water intrusion. Standard sizes range from 2-24 inches in diameter. Custom sizes are also available.



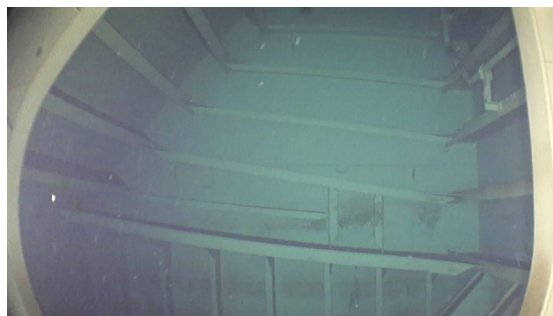
Subsea Inspections and NDT

Our suite of subsea tooling enables us to complete subsea non-destructive testing (NDT), including UT thickness gauging, ACFM, and CP measurements using an ROV or magnetic crawler platform. Additional capabilities include point cloud modeling, 3D photogrammetry, fixed jacket leg modeling with eventing (labeling structures, components, and anomalies), pipeline survey, and metrology.



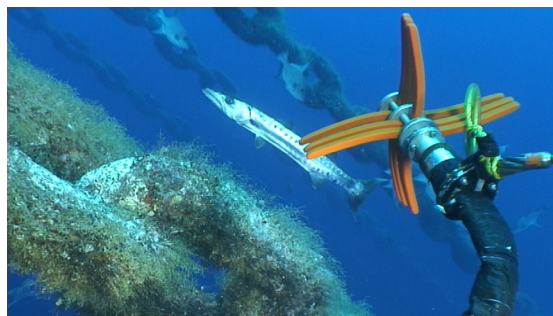
ROV Ballast Tank Inspection

Leverage an alternative inspection option that removes confined space entry into ballast tanks by completing all inspection requirements using observation class ROV systems. These lightweight vehicles do not require de-ballasting, gas freeing, or ventilation and are capable of CP and ultrasonic (UT) thickness gauging, as well as GVI and CVI, in high resolution.



Mooring Line Cleaning, Inspection, Photogrammetry, and Analysis

Clean and inspect mooring lines without needing to bring the line topside. By using an ROV-mounted cleaning option, dimensional measurements and various scanning techniques provide valuable data that can identify and extend a line's lifespan.



Remote UWILD - Live Data Streaming

By using proprietary data solutions, we enable remote survey attendance and inspection via live-streaming video. With this capability, Oceaneering, customer representatives and Class Surveyors can stream live video of UWILD operations and direct inspections from an onshore location. This flexibility provides risk reduction and reduces overall costs related to inspector mobilization and personnel on board (POB) restraints. Remote services also provide scheduling flexibility while overcoming delays related to weather and offshore operations.

