Submarine Rescue

Rapid solutions backed by hands-on, global at-sea experience

Oceaneering’s team of engineers and technicians successfully integrated and tested the SRS hyperbaric complex.

Oceaneering understands the complexity of submarine rescue because of our long involvement in U.S. Navy submarine rescue initiatives. Our team of engineers, designers, operators, and divers with hyperbaric chamber experience use our technologies including remotely operated vehicles (ROVs), manned submersibles, and launch and recovery systems to ensure successful submarine rescue.
Pre-planning
 » Operational planning
 » Adequate training
 » Regular exercises

Oceaneering’s extensive field operations knowledge is used to develop necessary pre-plans.

Rapid mobilization saves lives.
 » World-wide multi-mode transport
 » VOO capability/availability/operations
 » Rapid vessel installation

An understanding of the criticality of providing assistance in a timely manner.

Rapid mobilization provides for rapid mobilization
 » JATEU
 » MIL-HDBK-1791
 » ISO

Established VOO database
 » Vessel analyses
 » Ship alteration design packages to meet SRS requirements
 » Deck interface design packages to support SRS installation

Designer and provider of the SRS Ship Interface Structure (SITS)

Average 100+ vessel mobs per year

Operation of international DSV fleet

Global deep ocean search capability

Operator of world’s largest ROV fleet (>300)

Complete design and analysis of ELSS pods

USN’s primary Submarine Rescue Systems engineering and integration agent

Design and supply of the USN’s SRS LARS load spreading bases

Developed the USN’s SRS Pressurized Flexible Manways (PFMs) to meet portable TUP requirements

Rescue system interface definition
 » STANAG 1297
 » ATP 57

Vessel analyses

Translation and design of interface packages to meet SRS requirements

Deck interface design packages to support SRS installation

Operation of international DSV fleet

Equipment packaging for rapid mobilization

» JATEU

» MIL-HDBK-1791

» ISO

Transfer under pressure solutions provide decompression of the DISSUB crew using advanced dive tables.
 » Hyperbaric chambers
 » Life support systems
 » Decompression treatment techniques

Oceaneering provides continuing ILS management for the USN’s SRS.

Developed the USN’s SRS Pressurized Flexible Manways (PFMs) to meet portable TUP requirements

World-wide diving support including chamber operators/medtechs

Member of the Accelerated Decompression Tables Working Group

Rescue of the DISSUB crew.
 » Escape support systems
 » Rescue vehicle deployment and operation
 » Critical interface definition

End-to-end operation approach

Oceaneering has been involved in the escape and rescue of DISSUB crews for over 20 years.

Transfer under pressure solutions provide decompression of the DISSUB crew using advanced dive tables.
 » Hyperbaric chambers
 » Life support systems
 » Decompression treatment techniques

Oceaneering’s experience spans the range of hyperbaric technologies.

Developed and built both fly-away gas rack assemblies for the USN SRS

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Our experience designing, building, operating, and maintaining commercial subsea vehicles and diving systems was a critical consideration for the U.S. Navy when they selected Oceaneering to develop their Submarine Rescue System (SRS) in 1992. As the U.S. Navy’s Submarine Rescue Diving and Recompression System (SRDRS) requirements evolved, Oceaneering responded by transitioning from a fly-away saturation diving rescue system to a remotely-operated rescue vehicle and deck decompression chambers integrated with innovative transfer under pressure (TUP) technologies.

Understanding Submarine Rescue
Oceaneering’s experience and support of U.S. Navy programs resulted in our team’s unparalleled understanding of the full spectrum of submarine rescue requirements.

This includes:

» Vessel of opportunity operations, analyses, and selection criteria
» SRS mobilization improvements, system integration and verification testing, and ongoing Integrated Logistics Support (ILS) management
» Search, tracking, and navigation/positioning systems
» Vessel mooring and dynamic positioning systems
» Intervention solutions including ROVs and Atmospheric Diving System (ADS)
» Participation in operational exercises

Experience

» U.S. Navy Submarine Rescue System – TUP Systems Engineer and Integrator
» Surface ship modifications to support submarine rescue
» U. S. Navy SEIE Suit Ship Alteration Installation Contractor
» World-wide Search and ROV Network
» U.S. Navy SUBSAFE Certification (One of only three U.S. companies)

Oceaneering’s experience in Submarine Rescue provides rapid solutions backed by hands-on, global at-sea experience.

For more information visit us at oceaneering.com/OTECH