SUBSEA PREPAREDNESS SERVICES

Planning for the complexity of responding to a well control scenario
Oil Spill Response Limited (OSRL) offers a range of subsea preparedness services to help you prepare for a response to a loss of well control incident.

Capping and containment operations are complex, cross-functional activities with significant logistical and operational considerations. They are likely to require the deployment of equipment not readily available to the Well Owner in an emergency. This requires additional service agreements and plans to be put in place.

A Well Owner faces a myriad of challenges when reacting to a well control scenario. This includes the management of complex, time critical, logistical operations to mobilise assets to the incident location, followed by engagement with specialist organisations to deploy equipment to gain control of the well. Extensive pre-planning and regular exercising will assure response readiness.

To help you reach your preparedness and response readiness goals, OSRL offers a range of preparedness services to members and non-members including logistics planning, training and exercise delivery.

Due to our extensive experience in providing oil spill response around the world, we were identified as provider of choice to make advanced capping, containment and offset installation equipment available to industry.
How prepared are you?

An effective response depends on competent personnel working to a well developed plan that has been adequately resourced and regularly exercised.

OSRL can help you reach the right levels of preparedness to deal with subsea oil spill risks. Being prepared means you are wholly ready to implement an effective response at any time. Preserving this level of preparedness requires regular verification that capability is in line with the perceived risk.

Our Subsea Preparedness Services will ensure your staff are trained, your plans are properly developed and you have access to the right equipment. Once this is in place, OSRL can help you review and test your response capability. To guarantee you are truly response ready requires a continual cycle of reviewing, updating and testing of all elements of preparedness.

Through open communication with our Members, regulators and other stakeholders we are able to understand the needs and desires of everyone involved. Our knowledge combined with experience and expertise allows us to create customised, targeted and cost effective oil spill response solutions that support our customers’ activities.

Having been embedded in the SWRP and OSPRAG since conception, OSRL has developed a unique understanding of the equipment, how it works and readiness activities specific to subsea well control incidents. This knowledge, combined with over 30 years of oil spill experience, suitably positions OSRL to offer a range of preparedness services to industry.

Subsea Well Intervention Services (SWIS)

Challenge: Recent well control incidents highlighted the need for the oil and gas industry to be able to cap and/or contain flowing wells with greater speed and efficiency.

Identifying and implementing capping and/or containment solutions that can be used in different regions across the world is a complex and significant task.

Responding to the wide-ranging conditions is a major technical and logistical challenge. The distance between where equipment is stored and where it may be needed can significantly affect response times.

Solution: SWIS is OSRL’s dedicated subsea division, providing subscribers with access to an integrated intervention system (capping, containment and offset installation equipment) which compliments the Tier 3 response that OSRL membership provides.

With equipment designed for a variety of conditions, SWIS aims to enhance the industry’s ability to prepare for and respond to a subsea well control incident wherever it occurs. The equipment and dispersant is strategically stored and maintained in locations worldwide for swift international deployment.

“OSRL has developed relationships with related service companies whereby they can support one another to deliver preparedness activities.”

"It is a question of making available the right tools, in the right place, with effective mobilisation plans."

"COMPETENT PERSONNEL"

"WELL DEVELOPED PLANS"

"REGULAR EXERCISES"

"ADEQUATE RESOURCES"
Global Subsea Source Control Solutions

SWIS comprises of three services, all of which are available through Supplementary Agreements.

**Capping:** SWIS Capping Stack System & Subsea Incident Response Toolkit (SIRT)

- Four Capping Stacks strategically located globally.
- Two Subsea Incident Response Toolkits - an integral part of capping operations, enabling BOP intervention, debris clearance and the subsea application of dispersant at a wellhead.

**Containment:** SWIS Containment Toolkit

The Toolkit is designed for use with standard industry well test hardware, to create a containment system. It uses long-lead equipment not readily available in the industry and minimises response times by allowing a responding well operator to draw on existing resources.

**Offset Installation Equipment**

The equipment is for use in the event of a subsea well incident, where vertical well access by vessel is not possible. This new equipment will enable Members to remove debris or install capping, containment or related equipment at a safe offset distance from an incident site.

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"Subscription to SWIS allows access to advanced equipment for swift global deployment."

**Capping:** OSPRAG

One of the most effective measures to strengthen the UK’s oil spill response capability was the development of a well capping device by UK Oil & Gas Oil Spill Preparedness and Response Advisory Group (OSPRAG). By having the access and ability to deploy such a stack, UKCS operators can show due diligence in their operations.
Logistics Planning Services

**Challenge:** Subsea response operations are complex.

To execute efficiently, they require extensive logistical support. It’s not just about moving equipment from A to B – it is about maximising response effectiveness, ensuring the equipment arrives in the correct order and is pre-configured ready to deploy on site.

When well containment operations are added to well capping response operations, the logistical challenges increase significantly. Having a firm grasp, understanding and agreed execution plan will make this easier.

**Solution:** Bespoke subsea logistics plans across the three phases of a subsea deployment; origin, transit and destination activities.

OSRL has an embedded understanding of subsea response equipment and supply chain management and can assist members with their planning challenges. Country or region specific logistics plans and response time models (RTM’s) professionally developed for the movement of all needed equipment, vessels, materials and personnel are critical in order to deliver an effective subsea response.

Using our specialist knowledge, OSRL can create bespoke subsea logistics plans and RTMs across the three phases of a subsea deployment; origin, transit and destination activities. Our in-depth understanding of the equipment gives us a wide appreciation of the complexities of well capping and containment operations.

“**It’s not just about moving equipment from A to B - it’s about maximising response effectiveness.”**

SWIS Exercises

**Challenge:** Emergency Response Teams can be unfamiliar with the equipment and assistance available to them from SWIS.

Companies need a robust exercise and drill programme to provide their teams with the opportunity to practice skills that will be required in an emergency.

Exercises are crucial to fully appreciate the complexity of well control operations. Interfaces between SWIS the incident owner and lines of communications between all parties will only ever be fully tested in an exercise environment.

**Solution:** OSRL’s SWIS can deliver tailored exercises specifically designed to test well capping and containment response capabilities and will provide appropriate feedback and recommendations for improvement.

SWIS exercises will bring together key personnel likely to be involved in a real incident, develop working relationships and encourage teamwork. The exercises will help enable personnel to make complex decisions under what can be often stressful circumstances. Exercises can be designed to test both SWIS and OSPRAG logistics and operations.

OSRL can also coordinate and combine technical exercises with Incident Management / Command Systems.

“**Our tailored exercises are specifically designed to test subsea response capabilities and plans.”**
Customised Training Solutions

**Challenge:** Emergency Response Teams can be unfamiliar with the new equipment available to them for a subsea response.

**Solution:** Bespoke to individual requirements, SWIS training develops an understanding of the Master Response Guidelines, the OSRL documentation required and the OSRL SWIS equipment available.

OSRL’s client tailored SWIS training develops this knowledge, utilising a network of partners with specialism in the subsea industry where required. Whether you would like to develop a detailed understanding of the different equipment components and the lines of responsibilities or gain further knowledge on response planning using the Master Response Guidelines and the Incident Command System, OSRL can tailor a course to individual needs.

OSRL’s bespoke course content can focus on the strategic aspects of subsea well capping and containment operations; assisting companies to prepare a capping & containment response plan within the context of their own organisation, or concentrate on more tactical requirements such as building detailed knowledge of the technical and logistics aspects of the individual SWIS components.

“An effective response depends on competent personnel working to a well developed plan that has been adequately resourced and regularly exercised.”

Training needs to focus on the knowledge required to reach your preparedness and response readiness goals and ensure response effectiveness in the event of a well control incident.

“Being prepared means you are ready to implement an effective response at any time. a continual cycle of reviewing, updating and testing of all elements of preparedness will ensure this.”

Preparedness through development in people

A modular system enables members to select topics to create a course entirely unique to member companies’ requirements.

Subsea modules can even be added to more general oil spill response training to ensure member personnel develop a broad understanding of all aspects of oil spill response. Delegate engagement will be actively encouraged with the inclusion of group based activities culminating in a workshop exercise used to demonstrate that learning has occurred.

This training is suitable for:-

- Subsea Engineers
- Rig Operators
- Drilling Engineers
- Vessel Operators
- Logistics Personnel
- HSE Personnel
- Master Response Guidelines
- The Role of OSRL Subsea Services in Source Control
- Incident Command / Management Systems
- Contingency Planning Exercises / Workshops
- Emergency Response Training
- General Oil Spill Response
- Subsea Dispersant Response / Monitoring
- Client Specific Modules
- ROV Simulator Training for Cap Operators
- Emergency Response Teams

Possible modules:

- Technical – Equipment Operations
- Logistics / Transportation Overview
- Source Control Management
- Master Response Guidelines
- Incident Command / Management Systems
- Emergency Response Training
- Subsea Dispersant Response / Monitoring
- ROV Simulator Training for Cap Operators
- The Role of OSRL Subsea Services in Source Control
- Contingency Planning Exercises / Workshops
- General Oil Spill Response
- Client Specific Modules

SWIS Appreciation E-learning - FREE

Completion of the FREE on-line appreciation training course is recommended prior to attending any SWIS course. The training aims to give a broad appreciation of SWIS.

Registered users benefit from unlimited access and in the event of an incident or exercise. You can access the course via www.oilspillresponse.com
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