



SUBSEA WELL INTERVENTION SERVICES MEMBERSHIP PACK



Access to global capping, containment and offset
installation equipment



Access to global capping, containment and offset installation equipment



While we hope the capping, containment and offset installation equipment will never be needed, we can assure you we are ready to respond in the event of an incident.

Oil Spill Response Limited (OSRL) is proud to introduce its Subsea Well Intervention Services (SWIS) capability; providing access to global capping, containment and offset installation equipment built by industry for industry and supported by a dedicated team of subsea and industry experts.

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.

Together with the Subsea Well Response Project, we developed international base locations for this equipment with the associated logistics and infrastructure. The equipment is now available for the international industry to use in the event of a subsea well incident through OSRL's Subsea Well Intervention Services.

SWIS bases

Global subsea source control capability



BRAZIL
Base Location: Angra dos Reis
 • 1X 15k PSI Capping Stack (Angra dos Reis)
 • 1X Subsea Incident Response Toolkit (Maceia)



NORWAY
Base Location: Stavanger
 • 1X 15k PSI Capping Stack
 • 1X Subsea Incident Response Toolkit



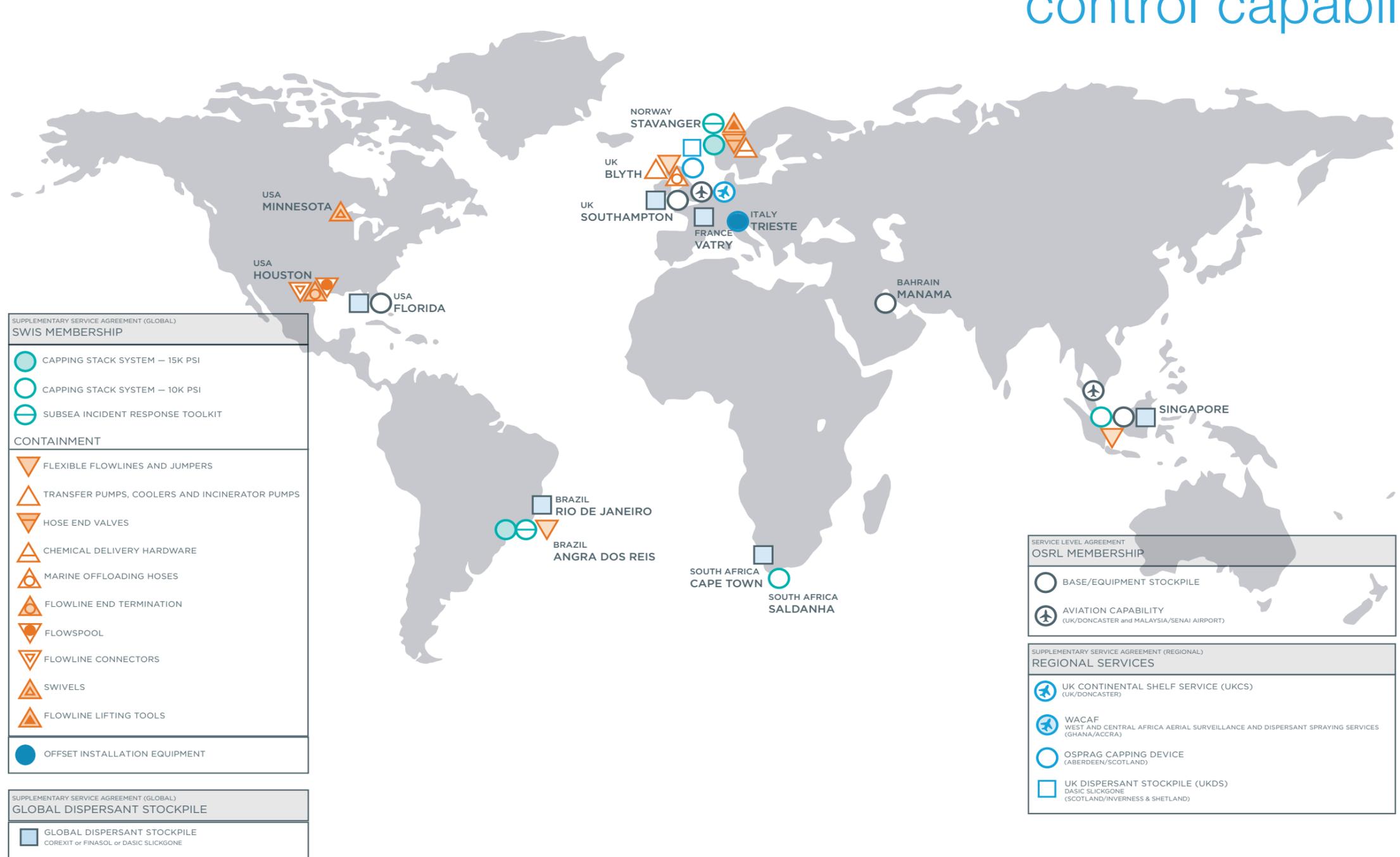
SINGAPORE
Base Location: Loyang
 • 1X 10k PSI Capping Stack



SOUTH AFRICA
Base Location: Saldanha
 • 1x 10k PSI Capping Stack



ITALY
Base Location: Trieste
 • 1x Offset Installation Equipment



Members of OSRL have the opportunity, through Supplementary Agreements, to subscribe to SWIS alongside their OSRL membership, providing access to global, response ready, capping, containment and offset installation capability - strategically located for even remote locations.

Global Subsea Source Control Solutions

Capping stack systems

Subscription to SWIS capping provides Members with access to the four capping stack systems designed, optimised and standardised to meet the majority of anticipated oil well conditions in deep water drilling around the world. Members have the ability to mobilise two in the event of an incident.

OSRL owns, stores and maintains four capping stacking systems in four international locations.

- Two capping stacks developed to handle pressure up to 15k PSI (Brazil and Norway)
- Two capping stacks designed for pressure up to 10k PSI (Singapore and South Africa).

The modular units can be configured for a variety of subsea interface requirements and transported by land, sea and/or air. They are designed for subsea use to a maximum depth of 3000m, and include functionality to mitigate the formation of gas hydrates. They can handle fluids up to 1500C, as well as the presence of well contaminants. The system can be precisely lowered and connected to the subsea blowout preventer (BOP), flex joint, or well head. It is suitable for both exploration and production wells. It can safely contain, and choke and cap up to 100,000 bpd flow in a controlled manner.

All four capping stacks are stored in a built, deployable state. They are maintained ready for immediate mobilisation and onward transportation by sea and/or air in the event of an incident. OSRL will work in tandem with the Incident Owner to ensure an efficient and effective response is delivered and it will be coordinated by the



OSRL Incident Manager through the Emergency Operations Centre.

Subsea incident response toolkit

Subscription also provides access to the Subsea Incident Response Toolkit (SIRT) which are an integral part of capping operations enabling BOP intervention, debris clearance and the subsea application of dispersant at a wellhead. The SIRT assists in creating safer surface working conditions for response personnel and enhances the degradation of the oil. Another key function of the SIRT is to connect directly to the in field BOP and attempt well shut in, potentially eliminating the need for a capping stack. The Subsea Incident Response Toolkits (SIRT) are stored in Brazil and Norway ready to be mobilised in the event of an incident. The toolkit is stored containerised and ready for deployment.

OSPRAG capping device - UKCS

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 (OSPRAG), designed to seal off a subsea well and regain control in the unlikely event of a blowout. Our OSPRAG capping service provides Members operating within the UKCS access to the OSPRAG capping stack held in Aberdeen along with the proven logistics expertise to mobilise it to the port of departure.

The OSPRAG capping device was built specifically for wells in the UKCS. Its modular design and flexible connector interface allow for use on subsea oil wells across the North Sea including west of Shetland. It also features a transition adaptor designed to make the device suitable for the most common blowout preventer and lower marine riser package connector interfaces in the UKCS.

Operators can gain access to the OSPRAG Capping Device through a supplementary agreement to an existing Associate/Participant agreement.

Containment toolkit

The containment toolkit is designed to supplement standard industry well test hardware to create a containment system. It comprises long-lead equipment not currently readily available in the industry and minimises response times by allowing a responding well operator to draw on existing resources.

This toolkit offers an opportunity to further develop existing subsea well response capability and compliments the subscription to the capping stack system. If well-shut in is not possible, the



subsea well containment toolkit can be deployed to enable the flow of well hydrocarbons from the capping stack to an offloading tanker.

The containment toolkit system configurations have been designed to provide the most efficient way of deploying the equipment. Most of the equipment is packed in intermodal units which allow for ease of transport by road, sea or air.

The toolkit is stored in strategic locations around the world to facilitate timely response. The flexible flowlines and jumpers are stored in three regional sets in Brazil, the UK and Singapore. They are stored in transportation configuration close to quayside access for mobilisation by sea only. All other containment toolkit components are air-freightable and are stored at the original equipment manufacturers' facilities in the UK, Houston and Norway.

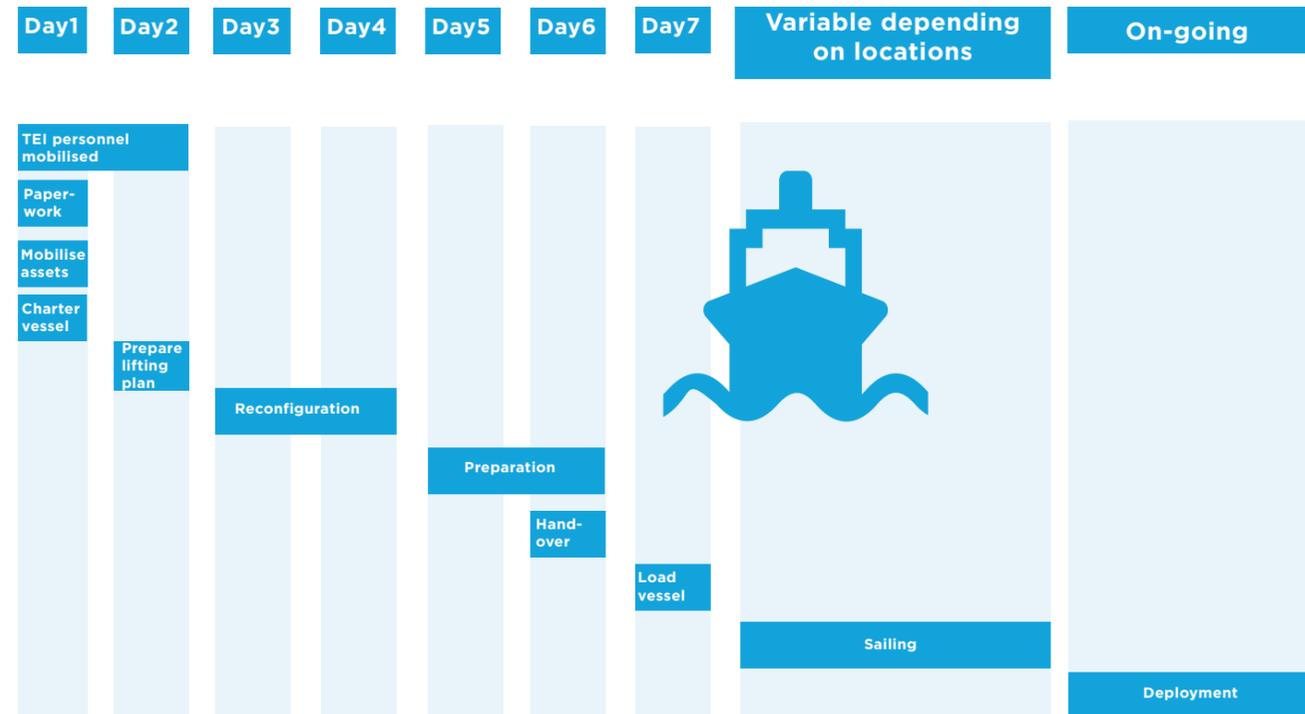
- Usable with a wide range of Mobile Offshore Drilling Units (MODUs) as capture vessels
- Compatible with standard well test equipment
- Stored in strategic locations around the world to facilitate a timely response

For more detailed information, please refer to our technical information sheets.

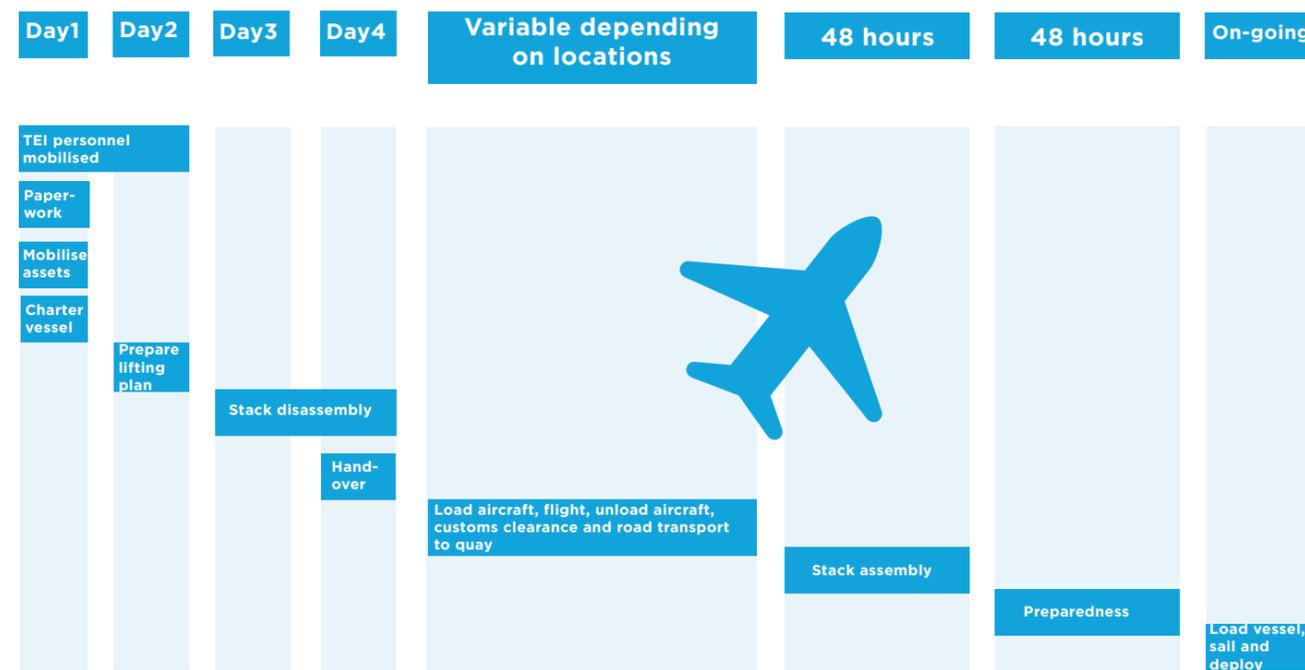
Check out the latest toolkit- the offset installation equipment on page 10.

Capping stack and subsea incident response toolkit - example timelines

Capping stack by sea

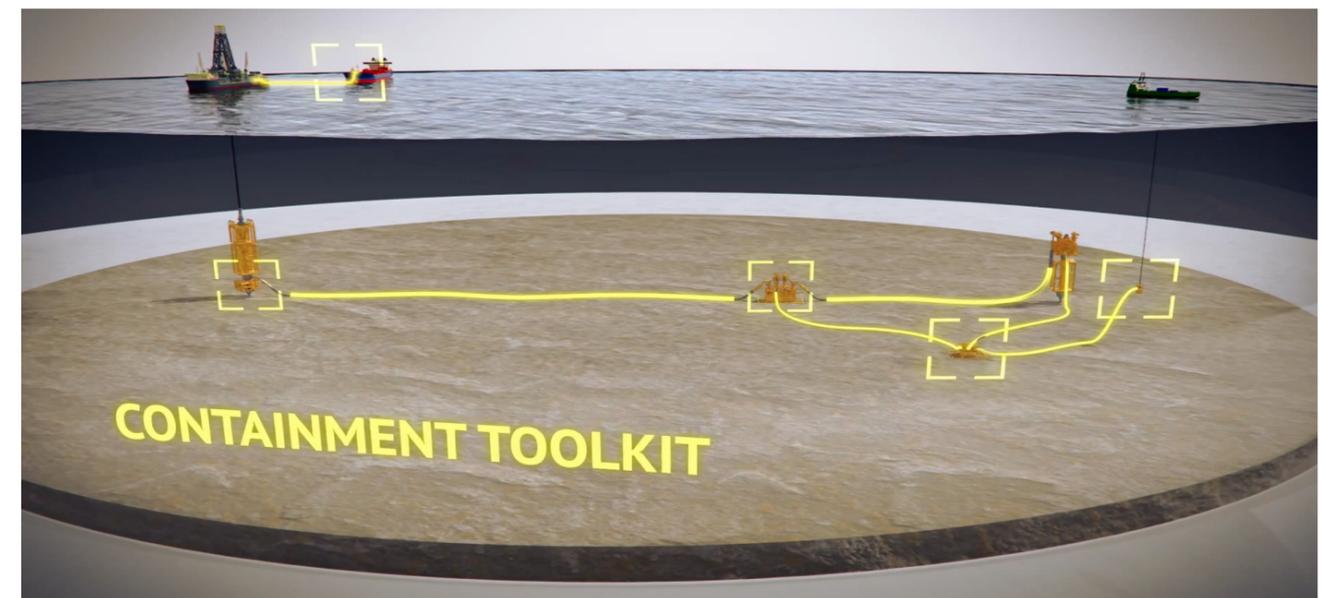
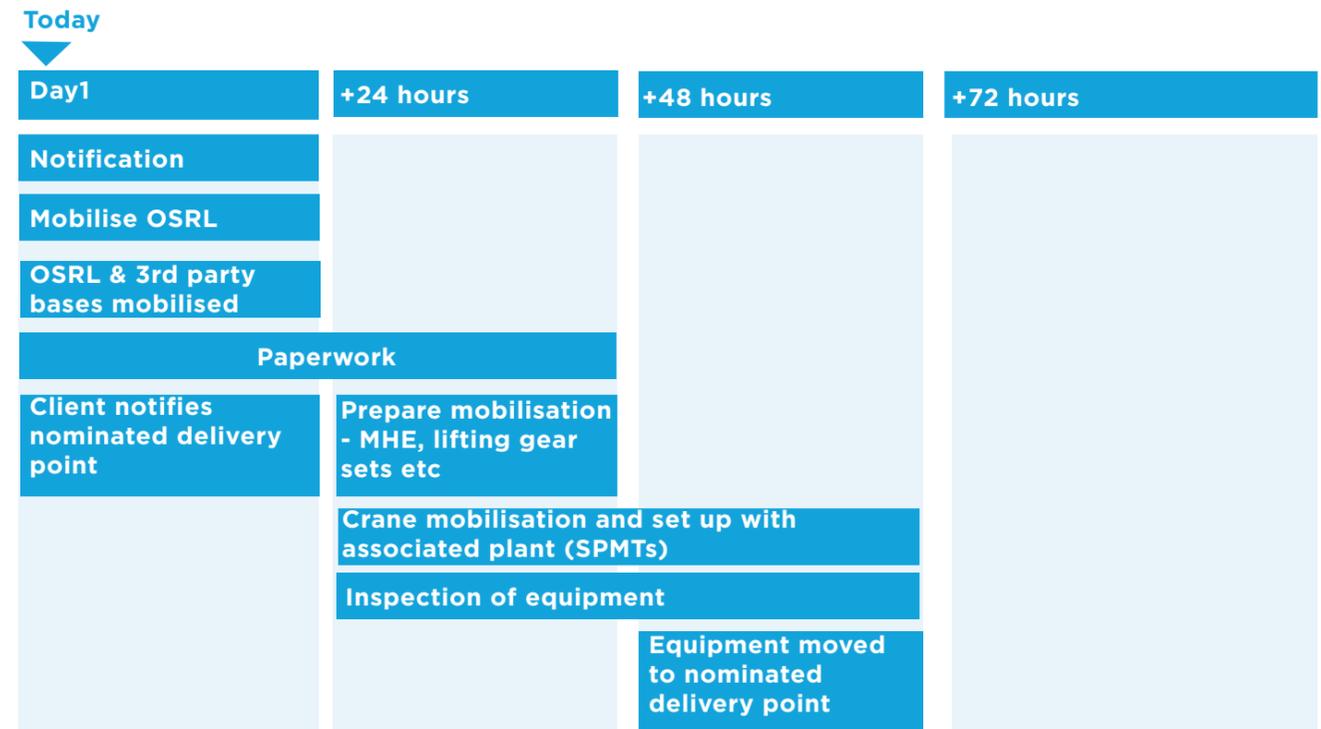


Capping stack by air



Containment toolkit - example timelines

Variables such as availability of vessels, associated tasks involved with vessel chartering etc may extend mobilisation times.



Latest toolkit to our global subsea source control solutions

Offset installation equipment

Many of the complexities of subsea well incident intervention typically relate to deep water operations. However, scenarios can arise where it is not possible to gain direct vertical access to a well head.

We have now made available to our Members the opportunity to gain access to the unique Offset Installation Equipment (OIE) from the Subsea Well Intervention Project (SWRP).

The equipment is for use in the event of a subsea well incident, where vertical well access by a vessel is not possible. It will be available through a SWIS supplementary agreement.

This new equipment enables responding personnel to remove debris or install capping or related equipment at a safe offset distance from an incident site.

- OIE can be deployed up to 500m offset from an incident site
- Suitable for use in a working depth range of 75-600m
- Compatible with OSRL's capping equipment
- Appropriate for a range of operation. It can also be fitted with cutting shears to remove debris

For more detailed information on the offset installation equipment, please refer to our technical information sheets.

OIE includes a carrier with adjustable buoyancy provided by ballast tanks. Positioning is controlled through mooring and pennant lines. It can also be fitted with shears to support debris clearance operations. The 240 tonne offset installation equipment is based in Trieste, Italy.

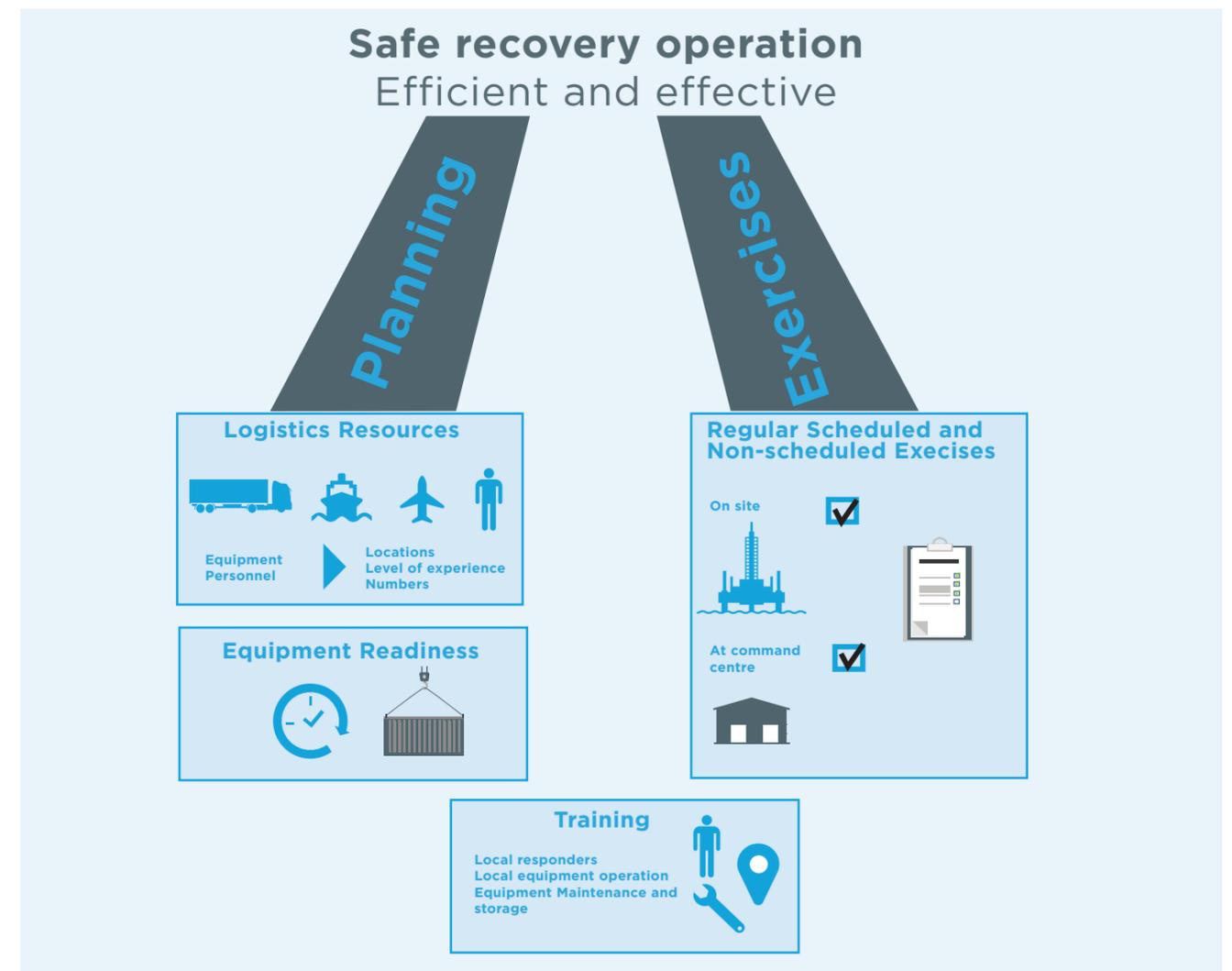


How prepared are you?

Planning and exercises are paramount

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 multiple large and heavy assets and people, from multiple bases to often remote incident locations. This is often followed by engagement with specialist organisations to deploy equipment to gain control of the well. Extensive pre-planning and regular exercising is necessary to assure a safe, efficient and effective response.

Oil Spill Response Limited has signed a Memorandum of Understanding with Trendsetter and Halliburton covering integrated solutions for preparedness and response associated with subsea well control activities. This memorandum enables OSRL to better serve the evolving needs of our members and potential members, and establishes a comprehensive end-to-end best-practice solution for preparedness and response to a subsea well control incident, which includes access to operational and deployment support.



Becoming a SWIS member

CAPPING STACK SYSTEM (CSS) AND SUBSEA INCIDENT RESPONSE TOOLKIT (SIRT)

Entry Fee	Contract Period
US\$ 1M	The contract will expire on 31st December 2022
Annual Subscription	
Per well basis; minimum two wells	
Short Term Subscription	
Six month access for one well: US\$ 500,000	

OFFSET INSTALLATION EQUIPMENT

Entry Fee	2018 Subscriptions
US\$ 2M	\$3,813,508

OSPRAG CAPPING DEVICE

Entry Fee & Annual Subscriptions			
An entry fee is paid when a subscriber joins the service. Thereafter an annual renewal fee is required			
Entry Fee		2018 Annual Fee	
Band 1	£225,000	Band 1	£13,300
Band 2	£450,000	Band 2	£26,600
Band 3	£675,000	Band 3	£39,900
Banding		Short Term Subscription	
Bands for OSPRAG are calculated based on a number of operational assets in the UKCS region:		Operators undertaking exploration activities for a limited period can join the service for 6 months at a fee of £75,000.	
Band 1	1-4 assets		
Band 2	5-20 assets		
Band 3	21+ assets		

CONTAINMENT TOOLKIT

Entry Fee	Contract Period
US\$ 1M*	The contract will expire on 31st December 2025
Annual Subscription	
Per well basis; minimum two wells	
Short Term Subscription	
Six month access for one well: US\$ 500,000	

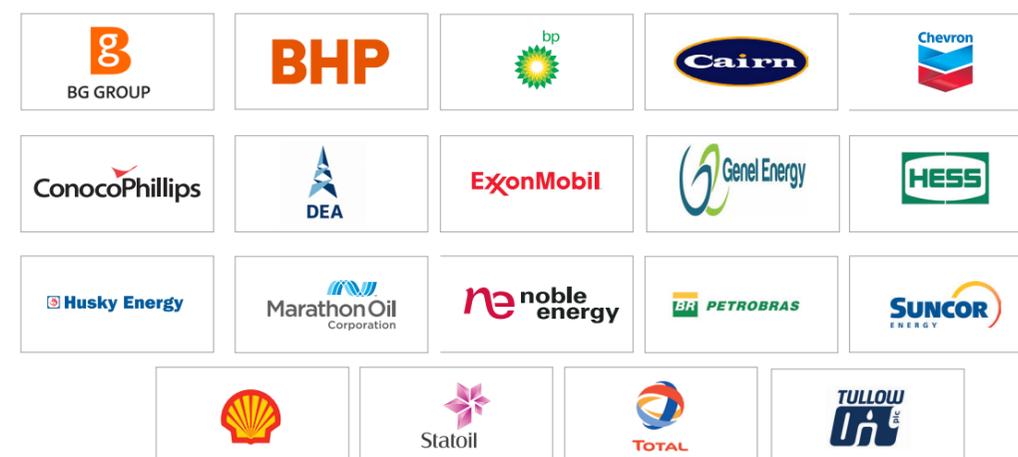
* Entry fee is waived if entering within three calendar months of subscribing to the SWIS Capping Stack System and Subsea Incident Response Toolkit

For membership enquiries, please contact MembershipTeam@oilspillresponse.com.

Our members

Subsea Technical Advisory Forum (STAF)

STAF is an informal forum for technical experts from each Subscriber company and OSRL to discuss technical (including deployment and logistical) aspects of the equipment, changes in procedures and or modifications to the equipment. OSRL continues to build on industry collaboration working with our members at regular, scheduled STAF meetings. STAF ensures ongoing partnerships and relationships with the oil and gas industry, working together and learning from each other, to ensure a safer, more prepared future.



Becoming an OSRL member

Membership benefits

- Guaranteed and immediate response, 24/7, 365 days per year
- Access to global and regional supplementary services
- Free access to a Duty Manager at any time
- Five days of complimentary on-site technical advice and response support up to five OSRL personnel
- Authorisation to quote OSRL as a guaranteed resource in oil spill contingency plans
- Annual Preparedness Review to ensure familiarity with mobilisation procedures and discuss common response issues
- Preferential rates for oil spill incidents and published training courses
- Access to equipment hire for long term and short term projects
- Existing contracts enable rapid mobilisation and access to credit facilities for chartered aircraft
- Invitation to participate in technical forums and network with spill response professionals
- Positive reinforcement of active collaboration with local and national authorities



Two types of OSRL membership

Your foundation to preparedness

As the world's only international industry-funded oil spill service provider, OSRL possesses the management expertise, specialist personnel and equipment needed to address your oil spill response and preparedness needs.

Membership with us gives you ready access to these services 24/7, no matter where and when you need us. Wherever your oil spill risks lie in the supply chain, OSRL expertise and resources are within your reach anytime, anywhere.

YES
ARE YOU OPERATING GLOBALLY?
NO

PARTICIPANT MEMBER

Company Characteristics:

- Any oil and energy company operating internationally
- National oil companies with significant volumes of production

Coverage:

- All operations worldwide

Annual Fee based on:

- Total worldwide oil production and 50% refinery capacity

Number of Shares held	Band measured in '000 BBL per day		Subscription
600	Band 1	> 1075	£819,480
500	Band 2	950-1075	£682,900
400	Band 3	825-950	£546,320
300	Band 4	700-825	£409,740
200	Band 5	575-700	£273,160
100	Band 6	< 575	£136,580

JOINING FEE: £50,000

ASSOCIATE MEMBER

Company Characteristics:

- Companies with a limited number of operations
- Joint venture activities
- Applies to drilling, production operations, refineries, pipelines, ports and harbours
- Shipping membership on request

Coverage:

- Site specific

Annual Fee based on:

- Total exposure (volume of oil produced and/or handled per day across all sites)
- Number of sites covered

Exposure '000 BBL per day	1 Site	2-5 Sites	6-10 Sites	> 10 Sites
0-40	£31,500	£39,370	£47,245	£62,990
41-80	£63,000	£78,740	£94,490	£125,980
81-120	£94,500	£118,110	£141,735	£188,970
121-160	£126,000	£157,480	£188,980	£251,960
> 160	Fees are provided on application			

JOINING FEE: £6,500

For membership enquiries, please contact MembershipTeam@oilspillresponse.com.

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