







SWIS Containment Toolkit



OSRL and the Subsea Well Response Project collaborated to develop a **Containment Toolkit**, which supplements OSRL's SWIS Capping Stacks and the Subsea Incident Response Toolkits (SIRT). The Containment Toolkit can be deployed to create a controlled flow system from the wellhead to the surface. Hydrocarbons flow from the capping stack through flexible jumpers and flowlines into a flow spool assembly, connected to a Mobile Offshore Drilling Unit (MODU) for processing. The toolkit includes equipment for hydrate inhibitor distribution to ensure flow assurance, allowing safe capture, processing, and transfer of hydrocarbons to a tanker positioned at a safe distance from the incident site.

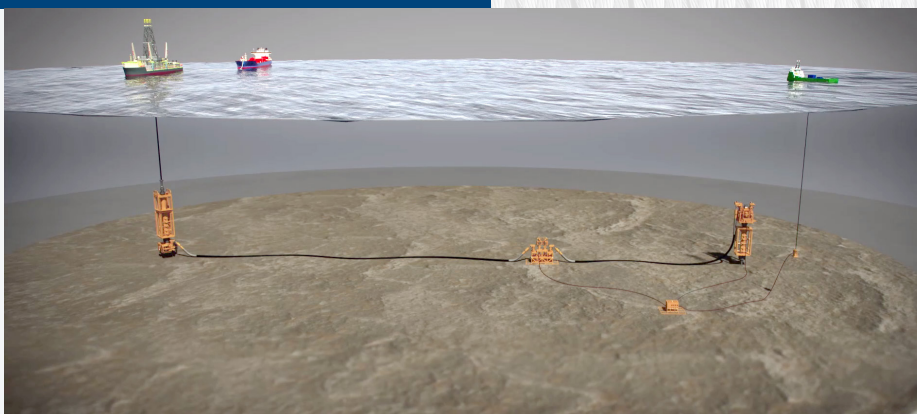
Key Facts

- Developed by OSRL and SWRP to supplement well response capabilities
- Designed to support a range of Mobile Offshore Drilling Units (MODUs) as capture vessels
- Compatible with industry-standard well testing equipment
- Strategically stored in the UK, Brazil, Singapore, Norway, and the USA to ensure rapid response
- Components are air, sea, and road transportable, with certain items specifically packaged for airfreight

Components	The Containment Toolkit consists of	
	Flowline End Termination (FLET): ROV-operated subsea manifold for overpressure protection and hydrate inhibitor access	Size: 6.2m x 2.5m x 3m Weight: 32 tonnes
	Flow Spool with Subsea Test Tree Latch: Connects the flexible flowline to the standard well testing riser	Size: 4.3m x 3.7m x 3.8m Weight: 43.5 tonnes
	Coiled Tubing Termination Head (CTTH): Supports hydrate inhibitor distribution through the static CDA	Size: 1.5m x 1.1m x 1.8m Weight: 3 tonnes
	Deployment Reels for Flying Leads: Coiled reels for safe subsea installation of flying leads	Size: 6.2m x 2.4m x 2.6m Weight: 12 tonnes
	Diverless Subsea Connectors: ROV-operated for flexible flowline connections	Size: 1.6m x 2.4m x 1.9m Weight: 3.3 tonnes
	Chemical Distribution Assembly (CDA): Delivers hydrate inhibitor to FLET and capping stack	Size: 2.5m x 2m x 2.3m Weight: 6 tonnes

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The **SWIS Containment Toolkit** is available globally via SWIS membership subscription.



Storage

The Containment Toolkit components are stored across strategic locations in the UK, Brazil, Singapore, Norway, and the USA. Non-airfreightable items such as flexible flowlines are held in the UK, Brazil, and Singapore, while other components are air, sea, and road transportable, ensuring rapid deployment.

Specifications

Water depth	Up to 3,000m
Temperature range	-1°C to 130°C (operation), -20°C to 40°C (storage)
H ₂ S content	Up to 500 ppm
CO ₂ content	Up to 10 mol %
Design life	20 years (storage), 2 x 6 months (deployment)
Transportability	Air (Boeing 747-400 ERF; excluding flexible flowlines), land, and sea

Package contents : The toolkit includes

Marine Offloading Hoses	Transfer well fluids from capture vessel to tanker
Incineration Pump Package: Pumps crude to burner boom incinerator	Size: 2.4m x 9.1m x2.4m Weight: 24 tonnes
Transfer Pump Package: Pumps fluids from LP separator to tanker storage tanks	Size: 2.4m x 6.1m x2.4m Weight: 12 tonnes
Offloading Cooler Package: Cools stabilised crude for tanker offloading	Size: 2.4m x 6.1m x2.4m Weight: 7.7 tonnes