OSRL and SWIS Organization

The largest international industry-funded cooperative which exists to respond to oil spills wherever in the world they may occur, by providing preparedness, response and intervention services.

*Wholly owned by most of the environmentally responsible oil and gas companies – membership represents the majority of global oil production.*

Currently employs +/- 275 people across 12 locations around the world.
What is SWIS?

- International Association of Oil and Gas Producers (OGP) established the Global Industry Response Group (GIRG).
- GIRG created the Subsea Well Response Project (SWRP) in 2011.
- SWRP identified Oil Spill Response Limited (OSRL) as the provider of choice.
- OSRL established the Subsea Well Intervention Services (SWIS) division.
OSRL/SWIS

- Supplementary Services - SWIS
  - Subsea Incident Response Toolkit
  - SWIS Capping Stack System
  - SWIS Containment System
  - Global Dispersant Stockpile
  - Offset Installation Equipment
SWIS CSS/SIRT Services

Strategically located subsea well response equipment

(2x) SIRT: Stavanger
  Singapore
  • Debris Clearance
  • Dispersant Application
  • BOP Intervention

(2x) 10k CSS: Singapore
  Saldanha
  • 7” 10K Capping Stack Kits

(2x) 15k CSS: Stavanger
  Angra dos Reis
  • 18-3/4” 15K Capping Stack Kits
  • Complete Subsea Response Kits

Debris Clearance
Dispersant Application
BOP Intervention

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SWIS CSS / SIRT Members

Original members of Subsea Well response Project “SWRP 9”

More than 20 newer members – both long and short term)
SWIS Bases

Stavanger - Norway

Saldanha – South Africa

Singapore

Angra Dos Reis – Brazil
SWIS Capping
Integrated Subsea Intervention System

Four Capping Stack Systems (CSS)
Two Subsea Incident Response Toolkits (SIRT)

- For use on majority of international subsea wells
- “DNV Certified” for up to 3000m water depth
- Transportable by sea and/or air
- Response Ready
Survey & Debris Clearance
Dispersant System
Capping Stacks – identical components

- Retrievable Choke
- Flow Line Connector
- Acoustic Transponder
- Outlets with Dual 5\(\frac{3}{8}''\) 15k Gate Valves
- ROV Panel
- Lower Connector
Fit-for-Purpose Capping Systems

Dual 7\(^{1/16}\)” 10k Gate Valves on Main Bore

Dual 18 ¾” 15k Rams on Main Bore

Common 15k System
15k Scope of Supply
SWIS Membership

OSRL Membership (Participant or Associate)

- SWIS Capping Supplementary Agreement
- SWIS Containment Supplementary Agreement
- GDS Supplementary Agreement
- Offset Installation Equipment Supplementary Agreement in development
Additional SWIS Membership Benefits

- Subscribers Technical Advisory Forum (STAF)
- Document Control System
- SWIS Appreciation Site
Handover points – by SEA

Deployment by sea
Handover points – by AIR

Deployment by Air
SWIS Containment Members

Eight of the original members of Subsea Well Response Project

One new member -
several more recently in consideration stage
Max use of Standard Existing Vessels and Equipment

- Coiled Tubing unit & Tubing string for MEG delivery
- Drilling riser, BOP & Inner string
- Vessels
- Standard offshore well test spread

Maximum Flow rates:
- Capping stack 100,000 barrels / day.
- Each leg 33,000 barrels / day.
- First leg available end of 2014
Global Dispersant Stockpile
Subsea Dispersant Application
## Type, Quantity and Locations – 5000 m³

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity (m³)</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>Dasic Slickgone NS</td>
<td>500</td>
<td>OSRL Base UK Southampton</td>
</tr>
<tr>
<td>Finasol 52</td>
<td>500</td>
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<td>1500</td>
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<td>800</td>
<td>OSRL Base South Africa</td>
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<td>Corexit EC9500A</td>
<td>500</td>
<td>Florida/Texas USA</td>
</tr>
<tr>
<td>Corexit EC9500A</td>
<td>500</td>
<td>Brazil</td>
</tr>
</tbody>
</table>
Mobilization

– Notification via normal channels – Southampton, Singapore, Americas

**OSR(D)L**
- Maintenance of stock
- Loading of dispersant
- Transport to designated port

**Incident Owner**
- Designate preferred port
- Arrange airplane/vessel
- Coordinate further travel & in country logistics
- Confirm the use of dispersant with local environmental body

➤ Each year mobilization exercises will be carried out at each location to test OSRL staff and contracted service providers
Offset Installation Equipment
Offset Installation Equipment
SWIS Strategic Alliance Vision

SWIS will be a facilitator/integrator of subsea services through alliances with key service providers and mutual aid programmes, to provide stable and globally consistent services in the areas of subsea dispersants, capping, and containment activities.
Strategic Alliance – in real terms

• Storage and Maintenance Activities

• **Preparedness Activities and Drills**

• **Incident Response Support**
Staying in touch

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End of Presentation
Any questions?