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Oil Spill Response Limited Caribbean Regional Response Team Meeting; Jan 2017 A global company with a strong regional focus Presented by Elmer Emeric

Content overview

- About OSRL
- Global Service Delivery
- Response settings
- Service Level Agreement
- Response integration
- Preparedness
- New developments
- Feedback





About OSRL

Who we are

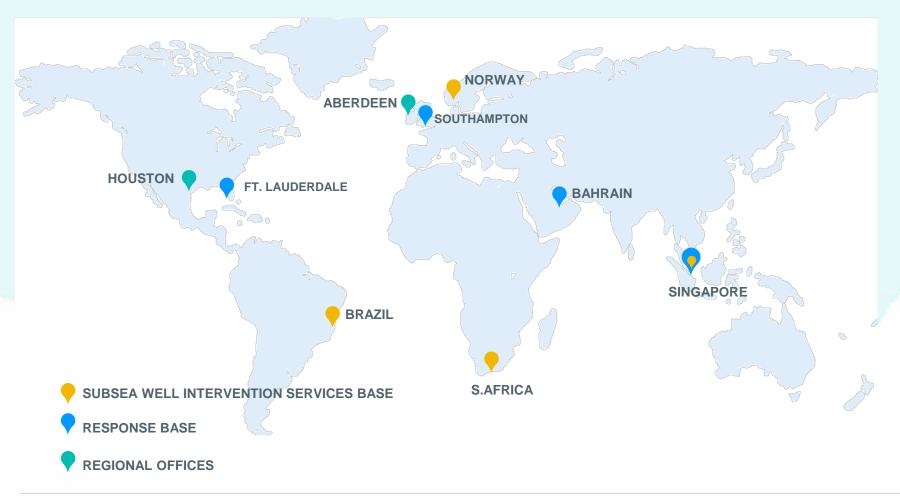


- Largest international industry funded cooperative
- Owned by major oil and gas production / transportation companies
- Train and respond effectively anywhere in the world



Our global capability

9 locations worldwide



What we do



- Training
- Consultancy
- Oil spill modelling
- Capability reviews
- Equipment hire
- Exercises and drills
- Secondments



- Technical advice
- Spill management
- Specialist personnel
- Equipment and transportation
- Aerial dispersant and monitoring systems
- Response integration



Global Service Delivery



- Safety Focus
 - Life Saving Rules
- People Focus
 - Approved Competency Management System (ACMS)
- Service Excellence
 - Response readiness
 - Incident Management Systems (i.e. ICS)
 - Stakeholder
 Engagement

HSEQ



OSRL is committed to a zero accident workplace supported by a culture of continuous improvement which is environmentally sustainable

Our people



Number of staff by technical expertise	
Engineering	47
Chemical engineering	8
Marine engineering	19
Environmental sciences	30
General Sciences	21
Geography	6
Marine and oceanography	36
Mechanical engineering	39
Subsea engineering	2
Risk and disaster management	12
Others	40
Business studies	44



Number of staff by educational		
qualification		
Postgraduate and equivalent	55	
Degree and equivalent	104	
Diploma and equivalent	64	
GCE O-levels or A-levels	34	
and equivalent		
Trade certification	47	

Our personnel are professionals in their respective fields, highly experienced and qualified in key disciplines required for advising and supporting clients in oil spill prevention, response and mitigating the consequences of spills.





Membership

Membership

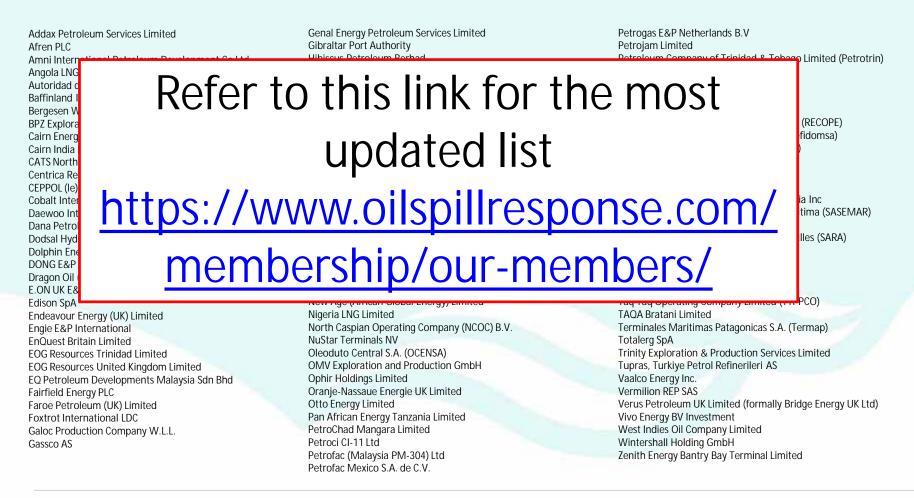


and over 100 Associate Members



Membership

Associate Members



Two types of Membership



Coverage of all operations worldwide

Site specific coverage



Supplementary services Available to Members only



Well capping and Subsea Incident Response Toolkit



Global Dispersant stockpile*





Supplementary services Available to Members only



Well capping and Subsea Incident Response Toolkit

Capping Stack System Brazil -15k psi Norway – 15k psi Singapore – 10k psi South Africa – 10kpsi **OSPRAG Cap for UK continental shelf only** Aberdeen – 15k psi

Subsea Incident Response Toolkit (SIRT) Stored in Brazil and Norway



Global Dispersant stockpile*

Global Dispersant Stockpile (GDS)

5,000 m³ of dispersant

(Based upon amount required for 30 days of ongoing response for a large incident, such as a subsea well blowout.)

*additional to SLA



Supplementary services Available to Members only



Regional (Tier 2) aerial services

WACAF

- Aerial regional cover in West and Central Africa waters
- 34 Dispersant capacity of 2,000 litres
- ³/₄ Includes four 4000-litre dispersant stockpiles

UKCS

- ³⁄₄ One Piper PA-31 Navajo for aerial surveillance
- ³/₄ Dispersant capability provided by Boeing 727 based at Doncaster airport



Containment

Generic containment Toolkit

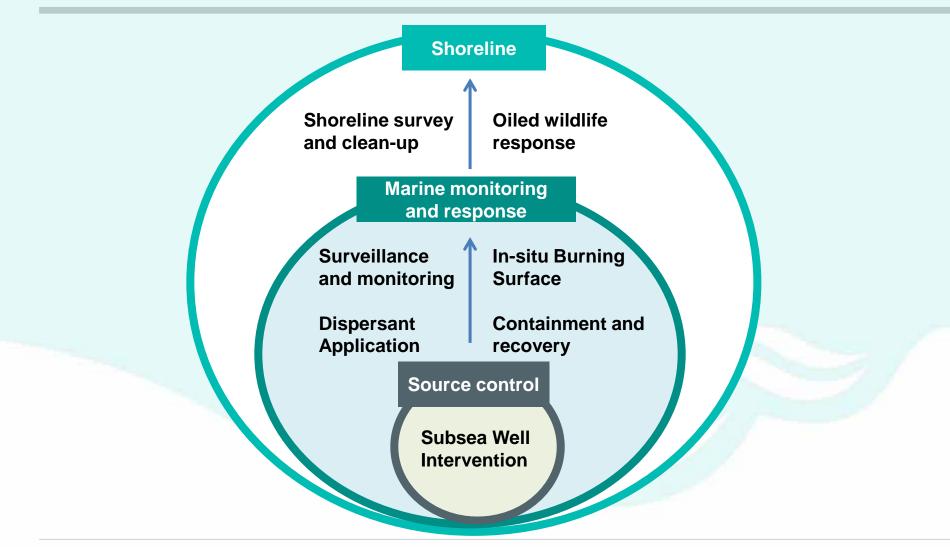
- 34 Adequate capture capacity for most subsea well incident scenarios
- 3/4 Suitable for international deployment
- ³⁄₄ First equipment ready for use





Response settings

Cone of response



Source control

Subsea Well Intervention

- Modular system includes capping stacks and intervention equipment
- Available to members (with a supplementary SWIS agreement)
- Equipment stored in strategic locations
 - Norway
 - Singapore/
 - Brazil
 - South Africa
- Dedicated SWIS delivery team

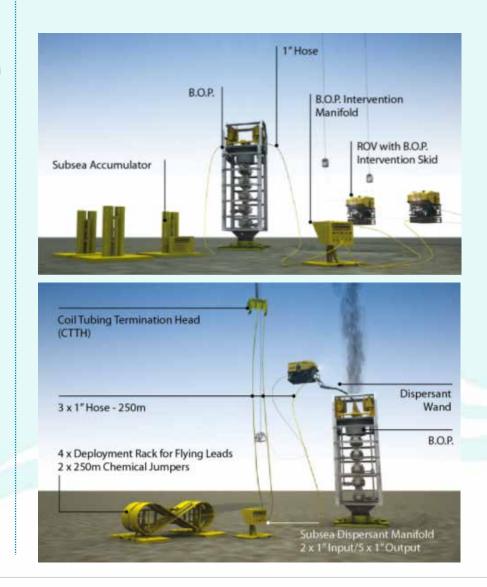




Subsea Well Intervention

Hardware toolkits include:

- Tools for site surveys
- Debris clearing equipment
- Flying leads, distribution manifold and dispersant wands
- High pressure, high volume accumulators

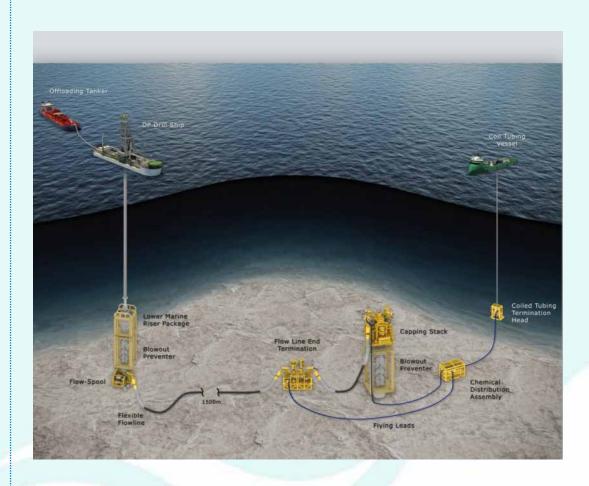




Containment

Generic Containment Toolkit

- Captures fluids from an incident well and flows them to the surface for processing and disposal.
- The first toolkit available and ready for use.
- The combined 3 'legs' of the containment toolkit can handle 100K barrels per day.





Marine monitoring and response

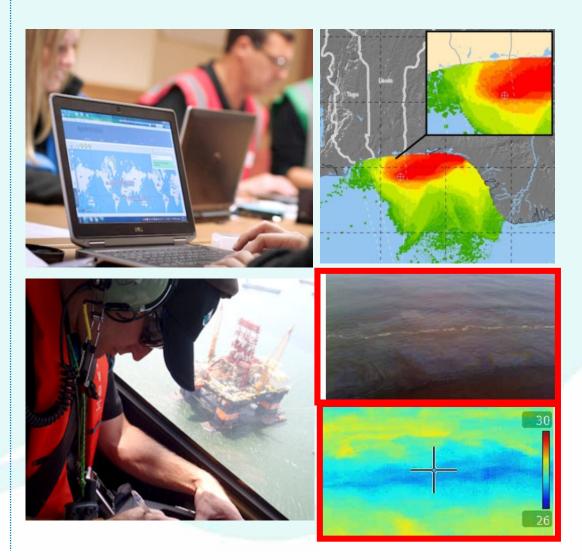
Surveillance and monitoring

Satellite, Aerial Services

- Global satellite imagery
- Aerial surveillance services

Modelling

Capability to run surface models and subsea (3D) models to track the movement of oil before wind driven currents act upon its trajectory.





Marine monitoring and response

Dispersant application

Vessel mounted and aerial platforms

- Dedicated aircraft (Hercules, 727, Islander)
- Experienced personnel for operation of aerial and vessel dispersant application

Analysis of dispersant application

Determine the effectiveness and environmental impact of dispersant operations

Technical expertise

- Sampling capability
- Use of SMART protocols





Marine monitoring and response

Containment and recovery

Surface containment and recovery

- Temporary storage equipment for recovered oil
- Large range of recovery devices to suit the oil viscosity.
- High-volume offshore recovery skimmers also available
- Equipment is designed for use on most vessels of opportunity







Marine monitoring and response

In situ burning

Surface containment using fire resistant boom

- Controlled burning can be an extremely valuable response technique when responding to an ongoing oil release in open water
- Need for concentrated oil and means of ignition
- Monitoring equipment is used when carrying out insitu burning for the realtime detection of airborne dust, fumes and particulates.





Marine monitoring and response

Inland oil spill response

River Response

- Booming
- Damming
- Use of pulleys

Storage and pipeline leaks

- Manual clean-up
- Mechanical recovery
- Sorbents
- In-Situ Burn







Marine monitoring and response

Cold Weather Response

Recovery of oil under ice

- Drilling
- Trenching
- Scraping and pumping

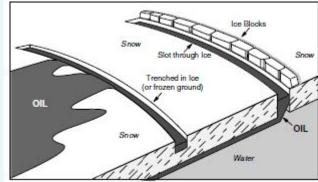
Recovery of oil on ice

- Berms
- Boom
- Trenches
- Vacuum & Shovels

Herders and In-Situ Burning









Shoreline survey and cleanup

Shoreline Clean-up Assessment Technique (SCAT)

- Identify sensitive resources
- Evaluate shoreline oiling conditions.
- Determine the need for shoreline clean-up and recommend clean-up methods and end points.
- Apply Net Environmental Benefit Analysis

Onsite Cleanup

- Protect sensitive shorelines
- Prepare site for cleaning (minimise secondary contamination)
- Clean up in progressive stages



Oiled wildlife response

Collaboration with the Sea Alarm Foundation

- SLA 24/7 access to Sea Alarm strategic advice and support
- Access to global oiled wildlife response groups (currently non SLA)
- Oiled wildlife response planning and training services
- ICS wildlife response management support and advice
- OSRL holds specialist equipment at 4 bases for use by external expertise; OSRL provide logistics only
- Advocacy role raising awareness globally to oil industry, governments and NGOs







Service Level Agreement

Service Level Agreement

NOTIFICATION Guaranteed response

The Duty Manager will return the call within 10 minutes upon receiving call or notification of incident TECHNICAL ADVICE Spill Technical Advice & Response Service

Free 24/7 spill management and advice

Up to five personnel can to be provided for five days (5x5)

RESPONSE DELIVERABLES Sustained response

Committed level of resources

The SLA clearly states the equipment and personnel which can be deployed.



How to activate us

1	Emergency telephone r Available 24 hours a day, 365 day		
	Europe, Middle East & Africa Asia Pacific Americas	+44 (0)23 8033 1551 +65 6266 1566 +1 954 983 9880	Free technical advice and response service (Up to 5 personnel for five days)
2	Complete Mobilisation	and Notification fo	orms

additional resources

Debrief and invoice close out

4

Shared responsibilities



OSRL can:

- Provide technical expertise
- Provide resources and supervisory assistance
- Support operational management at strategic and tactical level
- Adaptable to work within a range of incident management systems



Member's logo

The Customer will:

- Fulfil key roles in incident management system
- Assist with customs and immigration
- Identify and arrange local logistics, interpreters, local agency services etc.

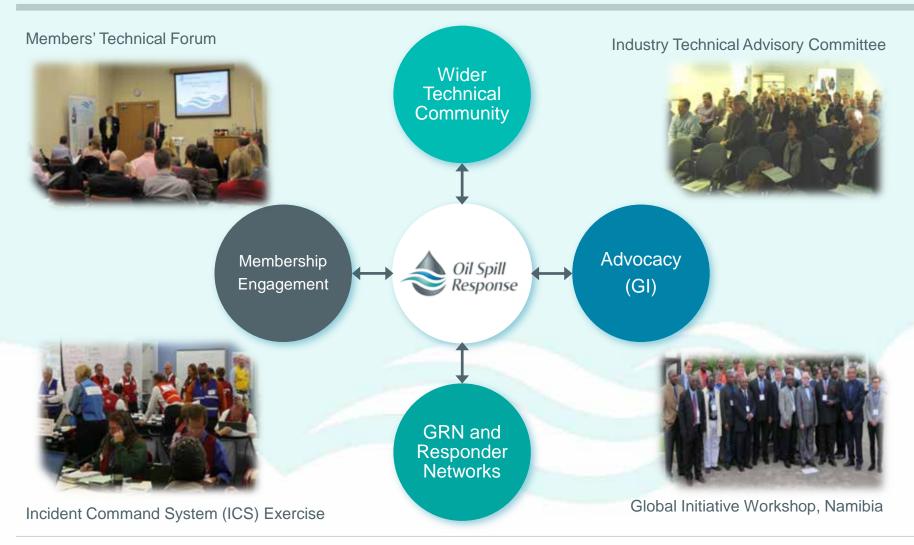


Your Nominated Callout Authorities

[callout and contacts database]



Stakeholder Engagement







Preparedness

Preparedness services





A tiered and integrated response strategy maximises response effectiveness.

Contingency plans



- Oil Spill Modelling
- Risk Assessment
- Environmental Sensitivity
- Wildlife



Capability reviews

- Equipment Management
 - Management



Published courses Client tailored

30

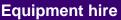
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Secondments

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Long term or short term specialist support





- Long and short term hire contracts
- Integrated training and maintenance services

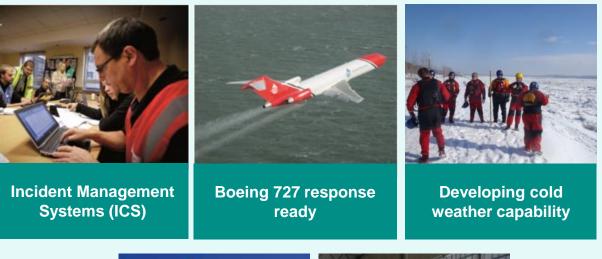
You can get technical advice over the phone, outside of a response





Evolving response

Recent developments







Evolving response





Staying in touch

www.oilspillresponse.com

Subsea Well Intervention Service

www.swis-oilspillresponse.com subseaservices@oilspillresponse.com

Training courses

www.oilspillresponsetraining.com training_uk@oilspillresponse.com training_sg@oilspillresponse.com

Find us on



- www.facebook.com/OilSpillResponseLimited
- www.linkedin.com/company/oil-spill-response-ltd
- www.youtube.com/user/OilSpillResponseLtd
- www.twitter.com/oilspillexperts

Spill preparedness (Technical handbooks and other reference materials)

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