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
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

SUBSEA WELL INTERVENTION SERVICES BASE
RESPONSE BASE
REGIONAL OFFICES

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What we do

Preparedness

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

Response

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

Participant Members

and over 100 Associate Members
## Membership

### Associate Members

<table>
<thead>
<tr>
<th>Company Name</th>
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<tr>
<td>Addax Petroleum Services Limited</td>
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<td>Baffinland Resources (UK) Ltd</td>
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<td>EOG Resources Trinidad Limited</td>
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<td>Wintershall Holding GmbH</td>
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<td>Zenith Energy Bantry Bay Terminal Limited</td>
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Refer to this link for the most updated list

https://www.oilspillresponse.com/membership/our-members/
Two types of Membership

Participant Member
Coverage of all operations worldwide

Associate Member
Site specific coverage
Supplementary services Available to Members only

- Well capping and Subsea Incident Response Toolkit
- Global Dispersant stockpile*
- Regional (Tier 2) aerial services
- Containment
Supplementary services
Available to Members only

Capping Stack System
- Brazil - 15k psi
- Norway – 15k psi
- Singapore – 10k psi
- South Africa – 10k psi

OSPRAG Cap for UK continental shelf only
- Aberdeen – 15k psi

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

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

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

UKCS
- One Piper PA-31 Navajo for aerial surveillance
- Dispersant capability provided by Boeing 727 based at Doncaster airport

Generic containment Toolkit
- Adequate capture capacity for most subsea well incident scenarios
- Suitable for international deployment
- First equipment ready for use
Response settings
Cone of response

- Shoreline survey and clean-up
- Oiled wildlife response
- Surveillance and monitoring
  - In-situ Burning Surface
  - Containment and recovery
- Dispersant Application
- Source control
  - Subsea Well Intervention
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.
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.
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
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
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 in-situ burning for the real-time detection of airborne dust, fumes and particulates.
Inland oil spill response

River Response
- Booming
- Damming
- Use of pulleys

Storage and pipeline leaks
- Manual clean-up
- Mechanical recovery
- Sorbents
- In-Situ Burn
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.

RESPONSE DELIVERABLES

18 response team members*

Free technical advice (5x5)

~700m³ dispersants
Two aircraft (in SG and UK)

Access to 50 percent of equipment by type
How to activate us

1. Emergency telephone numbers
   Available 24 hours a day, 365 days a year

   Europe, Middle East & Africa  +44 (0)23 8033 1551
   Asia Pacific               +65 6266 1566
   Americas                   +1 954 983 9880

2. Complete Mobilisation and Notification forms

3. Mobilisation of personnel, equipment and additional resources

4. Debrief and invoice close out
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

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.

Efficient Effective Response
Your Nominated Callout Authorities

[callout and contacts database]
Stakeholder Engagement

- Members’ Technical Forum
- Wider Technical Community
- Membership Engagement
- Advocacy (GI)
- GRN and Responder Networks
- Incident Command System (ICS) Exercise
- Global Initiative Workshop, Namibia
Preparedness
Preparedness services

How prepared are you to handle a spill?

A tiered and integrated response strategy maximises response effectiveness.

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

Capability reviews
- Equipment Management

Training
- Published courses
- Client tailored

Secondments
- Long term or short term specialist support

Equipment hire
- 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

- Incident Management Systems (ICS)
- Boeing 727 response ready
- Developing cold weather capability
- Subsea Well Intervention Services
- Global Dispersant Stockpile
Evolving response

1985 OSRL established
2010 25 years of excellence
2015 Enhanced capability

Pre-Macondo
Changing expectations
Decisive action
Restoring confidence
Implementation
Enhanced response capability

Incremental developments
Change in Industry demands
Aggressive recruitment
Broader staff skill sets
ACMS development

ICS for staff
Develop SWIS bases
ICS for Members
Launch SWIS bases

AVIATION
Extreme weather capability
Offset installation
Containment

ACMS refinement
GRN alignment
OSPRAG Capping Stack
Coverage in Americas
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

Spill preparedness (Technical handbooks and other reference materials)
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  preparedness@oilspillresponse.com

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