



# **Oil Spill Preparedness & Response**

**Elmer Emeric**

**Caribbean Regional Response Team**



# 2010 Macondo: New Paradigm

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# Airborne Dispersant Delivery System (ADDS)

Training December 2009



CLEAN CARIBBEAN & AMERICAS



## **CCA ADDS Spraying**



**CLEAN CARIBBEAN & AMERICAS**

# Preparedness & Response Model

- ▶ Equipment
- ▶ Responders (Employees, Contractors, Network)
- ▶ Training
- ▶ Logistics & Contingency Planning
- ▶ Drills & Exercises
- ▶ Government Liaison
- ▶ Education & Advocacy
- ▶ Technical Expertise
- ▶ Shipping & Customs Documentation
- ▶ 24/7 Call-out System
- ▶ Safety Protocols

# Equipment Capabilities & Options

## Capacidad de Equipos

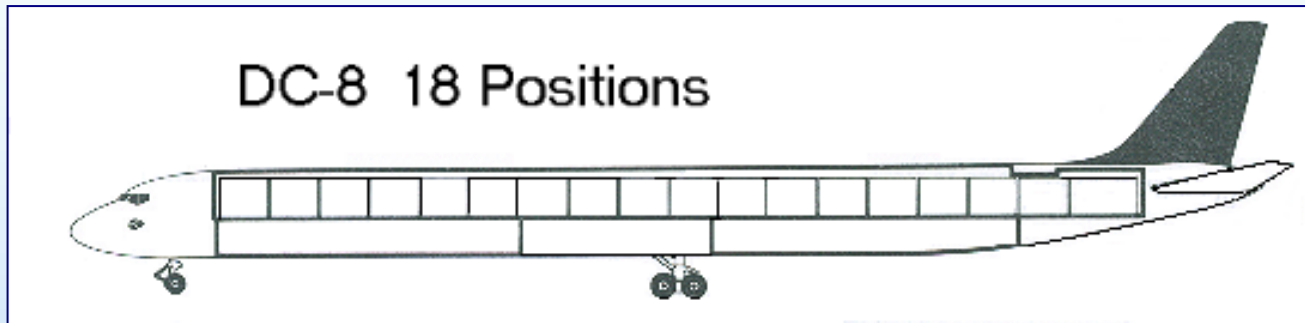
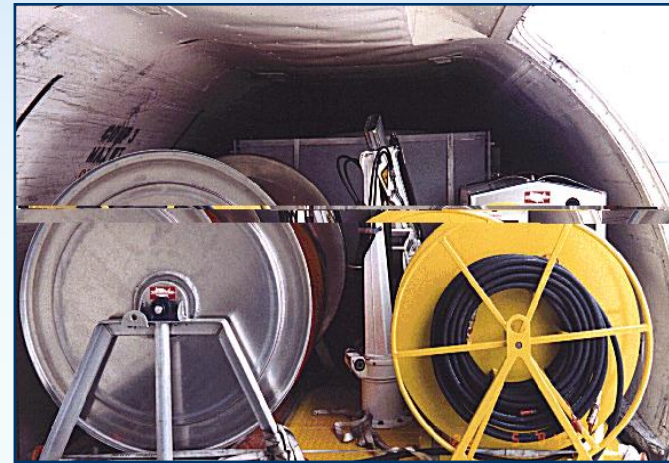
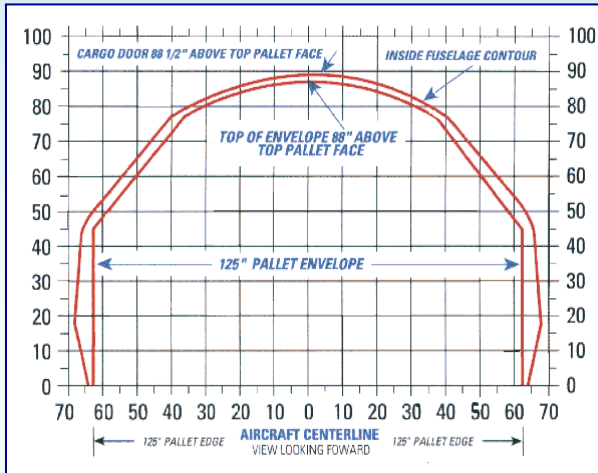
- Chemical Dispersion                      Dispersión Química
- In-Situ Burning                            Quéma en sitio
- Containment & Protection              Contención y Protección
- Mechanical Recovery                    Recuperación Mecánicos
- Temporary Storage                      Almacenamiento Temporal
- Shoreline Clean-up                      Limpieza de las Costas
- Telecommunications                      Telecomunicaciones
- Wildlife Rehabilitation                 Rehabilitacion Natural



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# Air Mobility Concept

## B727, DC-8, B757...B747



# CLEAN CARIBBEAN & AMERICAS

# International Tier 3 OSROs

## Merger of CCA-OSRL







*Oil Spill Response*



# Oil Spill Response Limited Introduction

# New OSRL Global Capabilities

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- CCA-OSRL Merger:
  - Combined Oil Spill Preparedness & Response Capabilities
- Enhanced Aerial Dispersant Capability
- New (4) Sub-sea Capping Systems
- Sub-sea Dispersant Injection Capability
- Global Dispersant Stockpile
- Sub-sea Containment System (design)

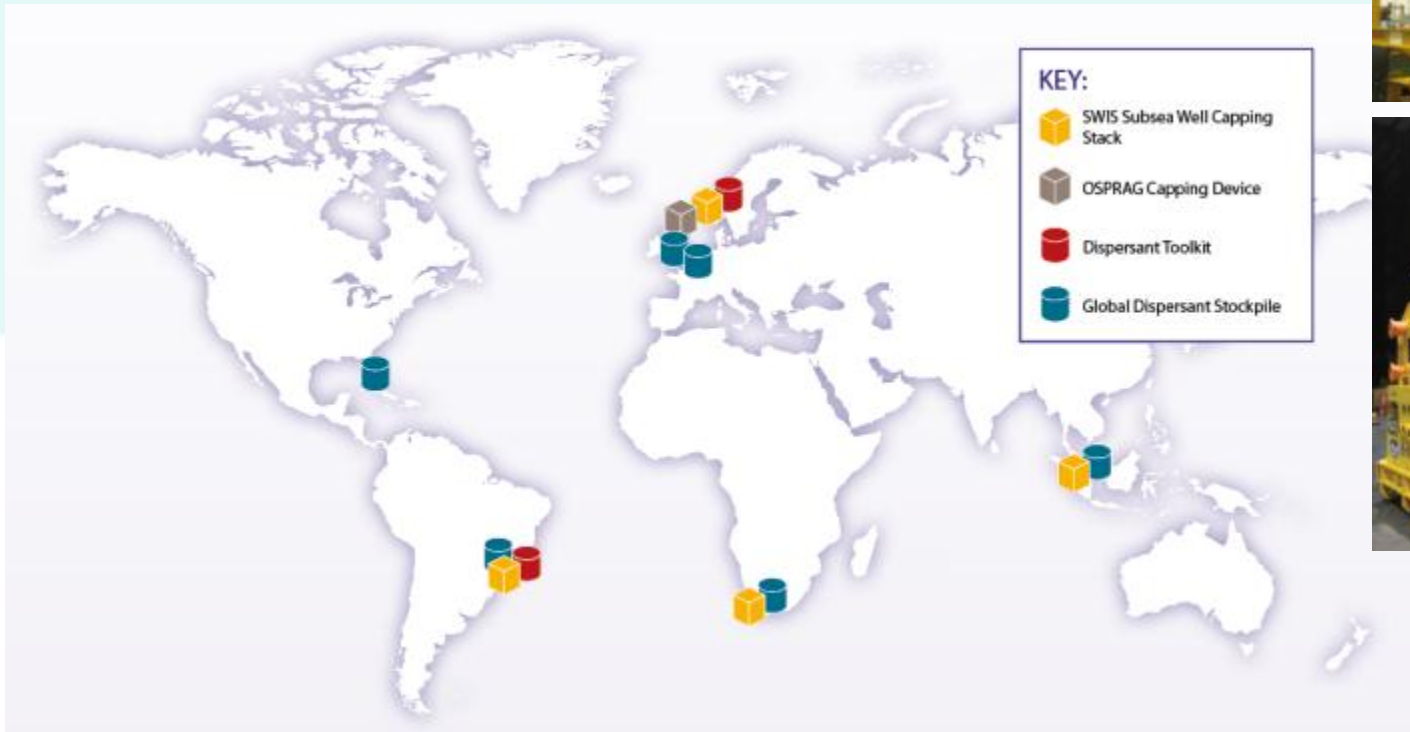
# OSRL Global Aviation Strategy

- Review Global & Regional coverage
- 727 Jet Spray Plane (2013)
- 727 Jet Spray Plan (2014)
- C-130 Hercules
- New Airborne Surveillance Capability (2014)

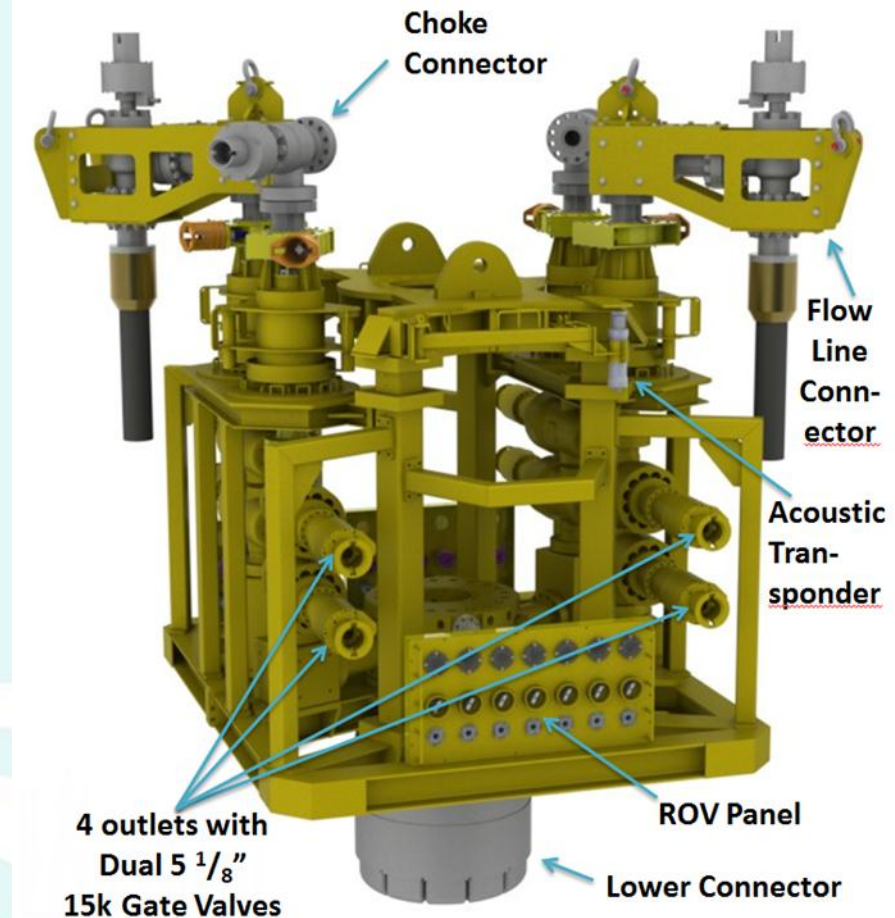
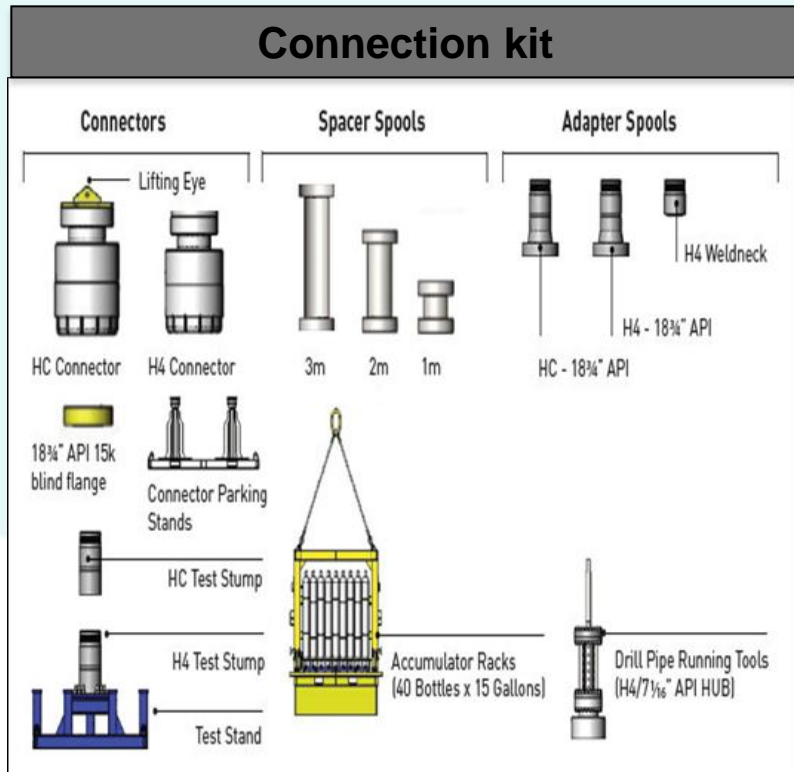


# Well Incident Intervention

- 🔹 OSPRAG (North Sea)
- 🔹 SWIS (Global)
- 🔹 Global Dispersant Stockpile

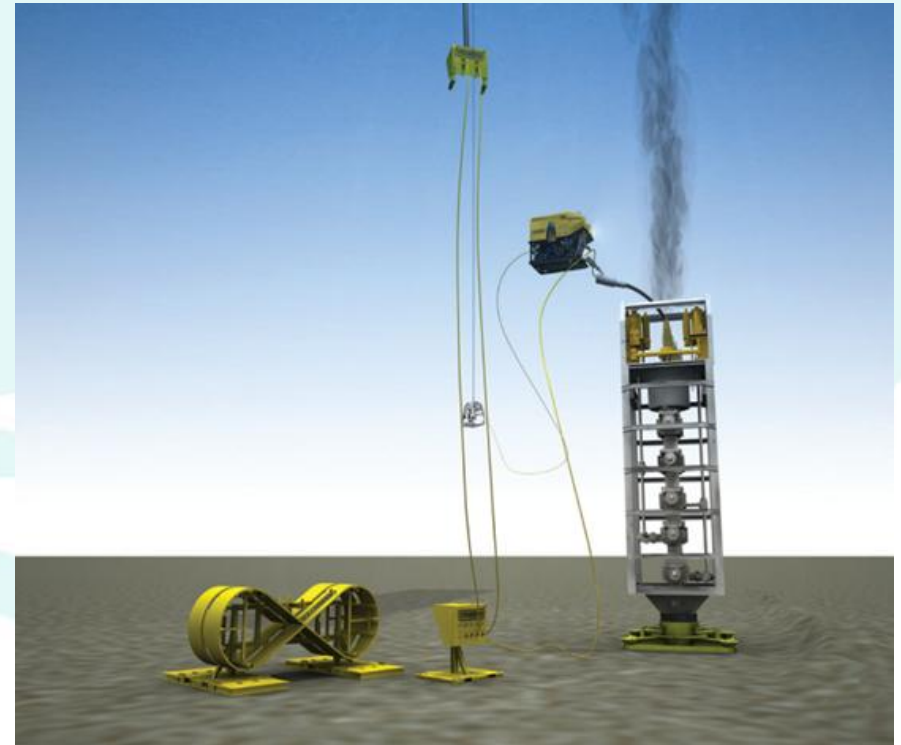


# Capping Toolbox(s)



# Dispersant Toolbox(s)

- 💧 Two complete packages
- 💧 Designed and initially stored with Oceaneering
- 💧 Toolbox functions
  - Existing BOP Intervention
  - Debris clearance
  - Subsea dispersant application
- 💧 Equipment packed in 6 x 20 ft containers
  - Airfreight ready
- 💧 Storage in Norway and Brazil
- 💧 Delivery Dec 2012

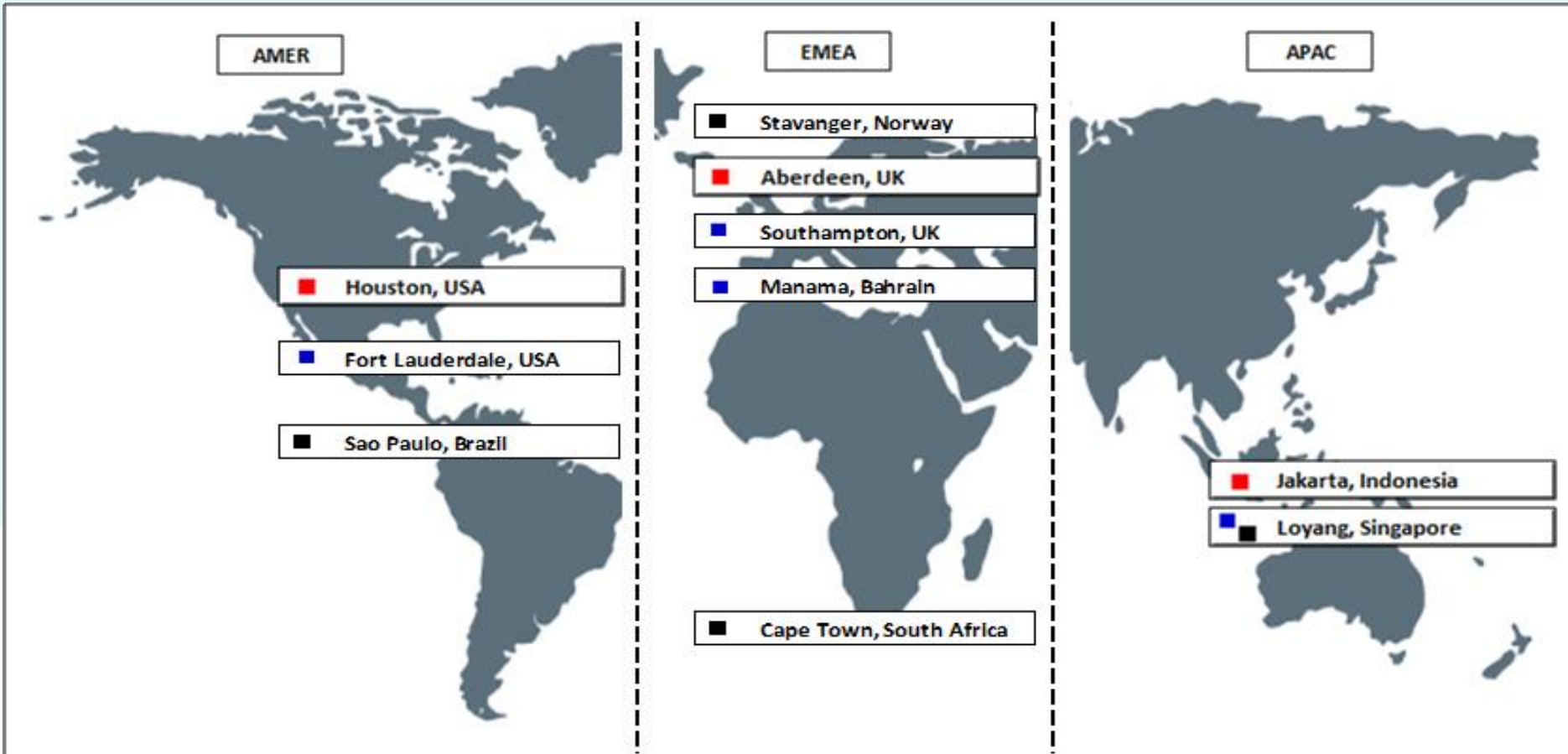


# Global Dispersant Stockpile (500 tonnes: Air Mobile)

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# A Global Company



■ Operational Bases

■ SWIS Bases

■ Representation Offices



# Effective Response

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- ◆ Trained people...
- ◆ Working to well-developed contingency plan...
- ◆ That has been well-resourced and...
- ◆ Is regularly exercised



# Response resources

## Personnel

- ▶ Competency-based development
- ▶ ICS for operations, planning and logistics
- ▶ Highly experienced
- ▶ Diverse and multi-disciplinary



## Equipment

- ▶ All response scenarios; land and sea
- ▶ Systems ensuring maximum effectiveness
  - Computerised customs documentation
  - Pre-loaded equipment packages
- ▶ New equipment procured in 2012 eg. fireboom, high-volume offshore recovery systems

# Supplementary Services for Members

## WORLDWIDE

- › Subsea Well Intervention Services (SWIS)
- › Global Dispersant Stockpile

## AFRICA

- › West and Central Africa Aerial Surveillance and Dispersant Spraying Services (WACAF)
- › Strategic regional dispersant stockpiles

## UNITED KINGDOM

- › United Kingdom Continental Shelf Aerial Surveillance and Dispersant Spraying Services (UKCS)
- › OSPRAG Capping Device
- › Strategic regional dispersant stockpiles

## KEY:

- |   |                           |   |                               |
|---|---------------------------|---|-------------------------------|
|  | Subsea Well Capping Stack |  | Regional Dispersant Stockpile |
|  | OSPRAG Capping Device     |  | Global Dispersant Stockpile   |
|  | Dispersant Toolkit        |  | Dedicated Aircraft            |



# Napo River, Ecuador: June 2013



# Our Participant Members



# Associate Members

Adani Welspun Exploration Ltd  
Afren plc  
AMNI International Limited  
Angola LNG Limited  
Bahamas Oil Refining  
Bahamas Petroleum  
Bailiwick of Guernsey  
Bayfield Energy  
Belize Natural Energy  
Bergesen Worldwide  
BPZ E&P  
Bridge Energy Limited\*  
C&L Natural Resources Ltd  
Cairn India Ltd  
Cairn Energy plc  
CE Tunisia  
Centrica Resources Ltd  
CEPPOL  
CESPM  
Chrysaor Limited  
CIE Angola Block 21, Ltd  
CNOOC Congo  
CNOOC Uganda Limited  
Dana Petroleum (E&P) Ltd  
DONG E&P A/S  
Dragon Oil (Turkmenistan) Ltd  
E.on E&P UK Ltd  
Eco Petrol  
Edison SpA  
Emerald Energy Resources

Endeavour Energy (UK) Ltd  
Energy Resource Technology UK  
EnQuest Britain Limited  
Environmental Protection Agency  
EOG Resources United Kingdom Ltd  
EOG Resources Trinidad Ltd  
EurOil Limited  
Fairfield Energy plc  
First Oil  
Foxtrot International LDC  
Galoc Production Company W.L.L  
Gassco, UK\*  
GDF Suez SA  
Gibraltar Port Authority  
Glencore Exploration Cameroon  
Great Lakes Dredge & Dock Company  
Guam Response Services Ltd  
Gujarat State Petroleum Corp Ltd  
HM Naval Base Portsmouth  
HPCL – Mittal Energy Limited  
HRT Africa Petroleo S.A.  
Hurricane Exploration plc  
Ithaca Energy (UK) Ltd  
JX Nippon E&P UK Ltd  
Joint Stock Company Zarubezhneft  
Kosmos Energy LLC  
Kebabangan Petroleum  
Lukoil Sierra Leone  
Lundin Services B.V.  
Minister for the Marine

Mitra Energy Limited  
MODEC  
MPX North Sea Ltd  
Mubadala Petroleum Limited  
National Grid\*  
NCOC B.V.  
Newfield Peninsula Malaysia Inc  
Nigeria LNG  
Niko Resources Limited  
Norwegian Energy Company ASA  
Nustar Terminals Antilles  
OCENSA  
OMV E&P GmbH  
Ophir Ghana  
Origin Energy  
Panama Canal Authority  
Peru LNG S.R.L.  
PetroCeltic  
Petrofac Malaysia PM-304 Ltd  
Petrofac Mexico  
Petrojam  
Petro Masila  
Petrotrin  
Philodrill Corporation  
Premier O&G Services Limited  
Petroterminal de Panama  
PT PHE ONWJ  
RECOPE  
REFIDOMSA  
Reliance Industries Ltd

Rijkswaterstaat  
Rubis Energy Jamaica Limited  
RWE Dea UK Holdings Ltd\*  
RWE Norge  
Salamander Energy  
Santos  
Savia Peru  
Singapore Petroleum Company  
Soco International plc  
Sociedad de Salvamento y Seguridad  
Sol Caribbean  
Starc Limited  
STAATSOLIE  
Sterling Resources Ltd  
Taq Taq Operating Company Ltd  
TAQA Bratani Ltd  
Termap  
Totalerg SpA  
Turkiye Petrol Rafinerileri A.S.  
Vaalco Energy, Inc  
Vermilion REP SAS  
Vivo Energy  
West Indies Oil Company  
Wintershall Holding GmbH  
Zhambai LLP





*Oil Spill Response*

Gracias - Thank You

**Elmer Emeric**

Oil Spill Response USA, Inc.  
2381 Stirling Road  
Fort Lauderdale, Florida 33312  
**[elmeremeric@oilspillresponse .com](mailto:elmeremeric@oilspillresponse.com)**

