Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Barbados
Environmental Protection Department
by: Ann-Marie Eversley
(246) 535-4620/4600
ann-marie.eversley@epd.gov.bb
Status of offshore activities

Offshore oil/gas:

- None currently
- However
  - Two (2) exploration licenses with BHP Billiton
    » Carlisle Bay
    » Bimshire
  - One (1) license with Repsol A.S.A
    » Black Belly
Status of offshore activities

Concerns for offshore oil spill

• Damage to:
  - coastline and coral reefs
  - fisheries industry
  - other countries and territories

• Adequacy of human resources and equipment capacity for offshore response
National Pollution Response Resources & Equipment Stockpiles

National spill response resources/equipment available in Barbados

- Are stored at the major petroleum storage and production companies
- The Barbados Coast Guard has some basic spill response equipment
- An inventory of this equipment is conducted annually
- There is local capacity to handle:
  - Tier 1 – Less than 1000 gallons (24 barrels)
  - Tier 2 – Between 1000 and 20,000 gallons (24 and 476 barrels)
# National Pollution Response Resources & Equipment Stockpiles

## Type of equipment

<table>
<thead>
<tr>
<th></th>
<th>Mops</th>
<th>Skimmers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generators</td>
<td>Pumps</td>
<td>Hoses</td>
</tr>
<tr>
<td>Lighting Units</td>
<td>Communication Devices</td>
<td>Transport</td>
</tr>
<tr>
<td>Trucks</td>
<td>Tanks</td>
<td>Trailers</td>
</tr>
<tr>
<td>Diggers</td>
<td>Loaders</td>
<td>Storage</td>
</tr>
<tr>
<td>Watercraft</td>
<td>Buoys</td>
<td>Anchors</td>
</tr>
<tr>
<td>Sprayers</td>
<td>Dispersant</td>
<td>Sorbents</td>
</tr>
</tbody>
</table>
National Pollution Response Resources & Equipment Stockpiles
Agencies in charge of National Spill Response equipment
- Barbados National Terminal Company Limited
- Barbados National Oil Company Limited
- SOL Limited
- RUBiS Limited
- Barbados Coast Guard
- Environmental Protection Department
- National Conservation Commission
- Ministry of Transport and Works
- Royal Barbados Police Force

National equipment/resources available to the Regional OPRC Plan
- Most resources are not government owned
- Discussions needed with the companies
Commercial Pollution Response Resources & Equipment Stockpiles

- There are no commercial companies with spill response resources/equipment stockpiles available in Barbados
Additional OPRC/IMS Information

Established National, Bi-lateral MOUs for spill response equipment in Barbados

- There are no agreements with other countries
- Marine Oil Spill Action Plan
  - A gentleman’s agreement between the oil storage and production companies to assist each other with equipment for Tier 2 spills
  - Some oil companies have an agreement with Oil Spill Response Ltd to access their stockpiles
Use of an Incident Management System (IMS)

Yes, an IMS has been adopted at a national level and the system we use is the incident command structure.

Generally, everyone who would be participating in an Oil Spill Response IMS knows their respective responsibility.

- there is need for more training and exercises

IMS needs

- Conducting of oil spill drill
- Roles and responsibility within an ICS training
- Equipment needed for different Tier responses
- Software/Techniques
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises & Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Barbados
Environmental Protection Department
by: Ann-Marie Eversley
(246) 535-4620/4600
ann-marie.eversley@epd.gov.bb
Oil Exploration

The Ministry of Environment regulates offshore Health and Safety under its Petroleum Health and Safety Regulations for oil exploration.

These companies are in the first stages of exploration. There has been no actual drilling, only seismic studies have been conducted. Proposed drill will begin as early as next year.

In previous years it has been a hot button topic with many public consultation and discourse. Presently, interest has seemed to subside.
EXERCISES & CO-ORDINATION WITH NEIGHBOURING COUNTRIES

THE BAHAMAS
By Marques Williams & Janet Russell
Major Concern

The Bahamas is an archipelagic nation that has to spread few resources over a vast area. With the development of the offshore oil industry there is always a fear of a Deepwater Horizon type incident.

The Bahamas relies heavily on tourism and other resources from the marine life. A slow reaction or poorly executed response to an oil spill could damage the Bahamas shorelines and its brand.
Equipment List

There have been oil spills in the past and these have lead the Bahamas to acquire and list equipment from government agencies, companies managing oil or its by-products and volunteer groups.

These groups and their equipment is listed in the National Oil Spill Contingency Plan and can address up to a Tier II spill. The National Oil Spill Contingency Plan is amalgamated into the plans of the organizing agency for national emergencies, the National Emergency Management Agency or NEMA.
The Bahamas is a part of the Multilateral Technical Operating Procedures (MTOP) for Offshore Oil Pollution Response. These procedures provide for joint response where participating countries’ interest could be impacted by an oil spill.
Oil companies that operate within the Bahamas have all been included and are willing participants in the National Oil Spill Contingency Plan.

The companies include:

- BORCO
- STATOIL
- Bradford Marine
- SUNOIL
- Bahamas Power & Light
  ...

...and more.
These methods, procedures and controls have been established for the government agencies, local companies and international companies that seek to render aid. Communication with all the agencies through exercises and drills has made many aware of their roles.
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

• Report From Trinidad & Tobago
• Developed by: Marc Rudder
• Delivered by: Marc Rudder
• Contact information: mrudder@energy.gov.tt
  ï 868-462-7175
Status of offshore activities

Are there any of the following offshore oil/gas:
- Exploration – Yes, mainly in deep-water blocks
- Proven finds - Yes
- Production – Yes, ~73,000 bopd.
- Public discussion/interest – Yes, 34.9% of GDP of T&T

If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating
- Pointe-a-Pierre Refinery
- Oil/Gas: PETROTRIN, bpTT, BHP, EOG Resources, Perenco & Shell
- Atlantic LNG: LNG Vessels
- Oil Tankers: service PETROTRIN, NPMC, bpTT, BHP
- Bunkering: Listed in table
## Records of Bunker Information Received

<table>
<thead>
<tr>
<th>Company</th>
<th>Type of Bunker Fuel</th>
<th>Frequency</th>
<th>Delivery Location Included?</th>
<th>Receiving Vessel Included?</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventrin</td>
<td>Fuel Oil - RMG 380 Gas oil</td>
<td>Monthly</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>ChagTerms</td>
<td>Automotive Diesel Only</td>
<td>Biannually</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>PETROTRIN</td>
<td>Fuel Oil - RMG 380 Gas oil</td>
<td>As requested</td>
<td>No</td>
<td>No</td>
<td>Combination of local and international bunker sales.</td>
</tr>
<tr>
<td>NPMC</td>
<td>Gas oil</td>
<td>As requested</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>UNIPET</td>
<td>Gas oil Automotive Diesel</td>
<td>As requested</td>
<td>No</td>
<td>No</td>
<td>These bunker sales volumes would be at subsidized prices. This information was requested from UNIPET for the assessment being conducted by the MEEI (See next section).</td>
</tr>
<tr>
<td>Aegean</td>
<td>Fuel Oil - RMG 380 Gas oil</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Aegean’s information is derived from PETROTRIN’s submissions.</td>
</tr>
</tbody>
</table>

### Description
- **Frequency** – how often the bunkering operator submits data to the MEEI
- **Delivery Location** – Where the bunkering operation occurs
- **Receiving Vessel** – The vessel the bunker fuel is being supplied to
Status of offshore activities

What, if any are your biggest offshore oil spill concerns?

- Petrotrin/Trinmar – Soldado fields
- Petrotrin Refinery – Pointe-a-Pierre
- Ship to Ship Transfers in the Gulf of Paria
- Teak, Poui and Samaan Oil Fields
- Deepwater exploration
National Pollution Response Resources & Equipment Stockpiles

Are there national spill response resources/equipments available in your country?  
Yes

If so, have they been assessed? Yes

Are they adequate for:
  Tier 1? Yes
  Tier 2? Not fully

What type of equipment and where?
  Pointe-a-Pierre
  Point Fortin
  Tobago
  Galeota Point, Guayaguayare
  – Booms, skimmers, sorbents, dispersant, dispersant applicators vessels, degreasers, pumps, washers/sprayers, temporary storage, generators.
What agency[s] are in charge of National Spill Response equipment?
• MEEI (oil/gas company equipment)

Are lists of National equipment/resources available to be included in the Regional OPRC Plan?
• Yes

If so, list contact person and/or website:
• National Controller or Deputy National Controller, NOSCP
Commercial Pollution Response Resources & Equipment Stockpiles

Are there commercial companies with spill response resources/equipment available in your country?

- Yes

If so, with what company[ies] & where?

- Tiger Tanks Trinidad Unlimited
- Kaizen Environmental Services T&T
- Oil Mop T&T

If so, are lists of the equipment/resources available to be included in the OPRC Plan?

- Yes, oil company equipment

If so, list contact person and/or website:

- National Controller or Deputy National Controller
Additional OPRC/IMS Information

ï Are there any established National, Bi-lateral MOUs for spill response equipment in your country?

Å With another country (who)?
  ï Yes, a BOSCP with Bolivarian Republic of Venezuela (1989)

Å With a company or companies (who)?
  ï No. Upstream Oil and Gas companies have MOU’s amongst themselves.
Use of an Incident Management System (IMS)

Å Have any IMS been adopted?
   • Yes

Å If so, nationally, locally, commercially...etc?
   • Nationally, commercially

Å If so what system[s]?  
   • Incident Command System (ICS)

Å Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly? Yes

Å What (if any) are your IMS needs?
   • Refresher training, as necessary

Å Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report?
   • Development of a fully functionally Tier 2 system in T&T
   • Specialist training is particular areas such as Shoreline Cleanup and Assessment Took (SCAT)
   • OPRC level II training for senior managers
<table>
<thead>
<tr>
<th>Personnel</th>
<th>IMO Training</th>
<th>Advanced Training</th>
<th>Specialist Training</th>
<th>Conferences</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IMO level 1</td>
<td>IMO level 2</td>
<td>IMO level 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IMO level 4</td>
<td>IMC Training</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginners</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incident Commanders</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planning Section Chiefs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operations Section Chiefs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logistics Section Chiefs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finance Section Chiefs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ministry/PS/Senior</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum/Chemical Engineers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum Inspectors</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Officers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coast Guard/Fire Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Guard/SAUTT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regiment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWMCOL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ODPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communications</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TTFS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health &amp; Safety Professionals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSROs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Conferences               |             |                   |                     |             |
| RSC (USA)                 |             |                   |                     |             |
| Interspill (EUROPE)       |             |                   |                     |             |
| Spillcam (AUSTRALIA)      |             |                   |                     |             |
| Clean Gulf (USA)          |             |                   |                     |             |
| MONEX                     |             |                   |                     |             |
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Report From [HONDURAS]
Developed by: General Directorate of Merchant Marine
Delivered by: Italo Bonilla Mejia
Contact information:
ibonilla@marinamercante.gob.hn
Status of offshore activities

ï Are there any of the following offshore oil/gas:

- Exploration, *Not at the moment, BG group was exploring until 2016.*
- Proven finds, *wildcat and natural gas*
- Production, none
- Public discussion/interest, *Chevron future works*

ï If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating

ï *Not at the moment*
Status of offshore activities

- What, if any are your biggest offshore oil spill concerns?
  - Maritime traffic routes between US and Venezuela
  - Maritime traffic routes between US, Belize and Guatemala.
  - MBRS (Mesoamerican Barrier Reef System).
National Pollution Response Resources & Equipment Stockpiles

- Are there national spill response resources/equipments available in your country?
  - Yes.

- If so, have they been assessed?
  - Yes

- Are they adequate for:
  - Tier 1?
  - Tier 2?
  - Both of them

- What type of equipment and where?
  - Oil spill barriers
  - Skimmers
  - Specialized vessels (OSV)
  - Absorbent materials
  - Dispersants*
  - In Puerto Cortes and Roatan
What agency[s] are in charge of National Spill Response equipment?

- General Directorate of Merchant Marine
- OSRO

Are lists of National equipment/resources available to be included in the Regional OPRC Plan?

- Yes

If so, list contact person and/or website:

- Juan Carlos Rivera Garcia, General Director
- www.marinamercante.gob.hn
Commercial Pollution Response Resources & Equipment Stockpiles

- Are there commercial companies with spill response resources/equipment available in your country?
  - Yes

- If so, with what company[ies] & where?
  - Ocean Pollution Control
  - UNO Honduras
  - Puerto Cortes and Roatan.

- If so, are lists of the equipment/resources available to be included in the OPRC Plan?
  - Yes

- If so, list contact person and/or website:
  - Juan Carlos Rivera Garcia, General Director
  - www.marinamercante.gob.hn
Additional OPRC/IMS Information

- Are there any established National, Bi-lateral MOUs for spill response equipment in your country?
  - No

  - With another country (who)?
  - With a company or companies (who)?
Use of an Incident Management System (IMS)

- Have any IMS been adopted?
  - Yes
  - If so, nationally, locally, commercially...etc?
  - General Directorate of Merchant Marine
  - OSRO
  - If so what system[s[?
  - National Contingency Plan
  - Local Contingency Plans.
- Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly?
  - Yes, nevertheless there is space for improvement.
- What (if any) are your IMS needs?
  - Training
- Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report?
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Å Report From Jamaica
Å Developed by: Maritime Authority of Jamaica
Å Delivered by: Steven G. Spence
Å Contact information: safety@jamaicaships.com
Å 1876-9671084
Status of offshore activities

Are there any of the following offshore oil/gas:

- Exploration, Yes Tullow Oil explores offshore Pedro Banks
- Proven finds, 0
- Production, 0
- Public discussion/interest, Yes

If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating:

- Petrojam Oil Refinery @ Port of Kingston
- Bunkering by Ship to Ship: Aegean/ WIP/ Petrotec
- LNG Transfer: Portland Bight to Montego Bay
Status of offshore activities

- What, if any are your biggest offshore oil spill concerns?
  - Inability to respond if there was incident offshore: lack of resources and expertise.
  - Effects on the beaches and on Tourism.
  - Effect on the Fishing/Conch Industry.
  - Disruption to marine traffic from Panama canal and US East Coast.
National Pollution Response Resources & Equipment Stockpiles

ï Are there national spill response resources/equipment available in your country? Yes kept by ODPEM/ Petrojam has limited quantity

ï If so, have they been assessed? Yes

ï Are they adequate for:
  - Tier I? Tier 1 only
  - Tier 2?

ï What type of equipment and where?
What agency[s] are in charge of National Spill Response equipment? Jamaica Defence Force CG ODPEM

Are lists of National equipment/resources available to be included in the Regional OPRC Plan? Yes

If so, list contact person and/or website:

Horace Glaze ODPEM
Commercial Pollution Response Resources & Equipment Stockpiles

- Are there commercial companies with spill response resources/equipment available in your country? Yes.

- If so, with what company[ies] & where?
  - Petrojam Limited, Port of Kingston

- If so, are lists of the equipment/resources available to be included in the OPRC Plan?
  - Yes....ODPEM

- If so, list contact person and/or website:
Additional OPRC/IMS Information

Are there any established National, Bi-lateral MOUs for spill response equipment in your country?

Â With another country (who)? No

Â With a company or companies (who)?
No
Use of an Incident Management System (IMS)

Are any IMS been adopted? Yes

If so, nationally, locally, commercially...etc?
Nationally

If so what system[s]? JIOC/ ODPEM coordinated

Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly? Yes

What (if any) are your IMS needs?
Training and an operational exercise

Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns...etc to report? Unstructured cooperation
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises & 
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

• Report From Panamá
• Developed by: David Olmedo y Javier Cedeño
• Delivered by: David Olmedo y Javier Cedeño
• Contact information: Javier Cedeño
Status of offshore activities

- Are there any of the following offshore oil/gas:
  - The Republic of Panama is focused on the storage and supplier of oil.

- If so, list the major facilities:
  - Vessels
  - Lithering
  - Oil
Status of offshore activities

What, if any are your biggest offshore oil spill concerns?

For the Republic of Panama it doesn’t apply
National Pollution Response Resources & Equipment Stockpiles

ï Are there national spill response resources/equipments available in your country? Panama recognizes private companies that provides the spill services but is just one that provides the service through a concession to the Panamanian State, just in case of emergency.

ï If so, have they been assessed?
   Yes, through requisites duly established in the:
   a. Law 21 of 1980, By which establish regulations about sea and navigable water pollution.
   b. Law 56 of 2008, General Law of Panamanian Ports
   c. Resolution JD No. 027-2008

ï Are they adequate for:
   Å TIER II

ï What type of equipment and where?
   The basic ones to attend TIER II,
What agency[s] are in charge of National Spill Response equipment?

Panama recognizes private companies that provides the spill services but is just one that provides the service through a concession to the Panamanian State, just in case of emergency.

The company in Panama is Ocean Pollution Control.

Are lists of National equipment/resources available to be included in the Regional OPRC Plan?

It doesn’t apply for Panama, because we haven't adopted the OPRC Convention.

If so, list contact person and/or website:

N/A
Commercial Pollution Response Resources & Equipment Stockpiles

ï Are there commercial companies with spill response resources/equipment available in your country?
Yes, the following ones:

a. Slop & Oil Recovery
b. OSRO Panama
c. Layne Commercials Services

ï If so, are lists of the equipment/resources available to be included in the OPRC Plan?
This information is confidential, because it belongs to the private company.

ï If so, list contact person and/or website:
http://www.grupo-opc.com/
Additional OPRC/IMS Information

Are there any established National, Bi-lateral MOUs for spill response equipment in your country?


Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region.

With another country (who)?

Cartagena

With a company or companies (who)?

No, there is not.
Use of an Incident Management System (IMS)

- Have any IMS been adopted?
  The one provided by the private company
- If so, nationally, locally, commercially...etc?
  Commercial only
- If so what system[s]?
  This information is confidential, because it belongs to the private company.
- Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly?
  Personnel of Pollution department of Ports Directorate of AMP
- What (if any) are your IMS needs?
  N/A
- Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report?
  N/A
Sub-Regional OPRC Convention Workshop on: Oil Spill Response Equipment, Simulation Exercises & Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Å Report From CUBA
Å Developed by: ING. Jesus Delgado y Elieser Riverón.
Å Delivered by: CUBA
Å Contact information: Capitán Jose joaquin Prado Falero
Å prado@apn.trasnet.cu
Status of offshore activities

Are there any of the following offshore oil/gas:
- exploration,
- proven finds,
- production,
- Public discussion/interest

If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating
National Pollution Response Resources & Equipment Stockpiles

Yes. Plan de Contingencia Nacional

If so, have they been assessed? Yes

Are they adequate for:

- Tier 1?
- Tier 2?
National Pollution Response Resources & Equipment Stockpiles

- What type of equipment and where? Yes
- What agency[s] are in charge of National Spill Response equipment?
  - El estado Mayor de la Defensa Civil Nacional y la Administracion Maritima de Cuba
- Are lists of National equipment/resources available to be included in the Regional OPRC Plan? Yes
- If so, list contact person and/or website:
  - Capitán Jose Joaquin Prado Falero
  - prado@apn.trasnet.cu
Commercial Pollution Response Resources & Equipment Stockpiles

Are there commercial companies with spill response resources/equipment available in your country?

• No

If so, with what company[ies] & where?

NA

If so, are lists of the equipment/resources available to be included in the OPRC Plan?

NA
Additional OPRC/IMS Information

Are there any established National, Bi-lateral MOUs for spill response equipment in your country?

Yes

With another country (who)?

US

With a company or companies (who)?

Not yet.
Use of an Incident Management System (IMS)

Â Have any IMS been adopted? Yes
Â If so, nationally, locally, commercially...etc? Nacional, Provincial y Local.
Â If so what system[s]? Sistema del Plan Nacional de Reduccion de Desastres.
Â Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly? Yes.
Â What (if any) are your IMS needs?
Â Equipamiento, capacitación y entenamiento.
Â Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report? Se tienen procedimientos con Jamaica, México y Bahamas; y un acuerdo con Estados Unidos.
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises & Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-5, 2017

Report From COLOMBIA
Developed by: Dirección General Marítima
Delivered by: Marco Antonio Olier Mendoza
Contact information: molier@dimar.mil.co
0057-1-220-0490
Carrera 54 No 26-50 CAN Bogotá
Status of Offshore Activities

OIL AND GAS POTENTIAL

- CBM: 33%
- Oil Shale: 15%
- Shale Gas: 19%
- On Shore: 15%
- Caribe Off Shore: 5%
- Pacífico Off Shore: 13%

Map showing Caribe Offshore and Pacífico Offshore regions.
Status of Offshore Activities

Biggest offshore oil spill concerns:

- Capabilities
- Resources/Equipment
- Responsibilities
- Interinstitutional Activation

Â 12 offshore blocks in exploration

Source: Agencia Nacional de Hidrocarburos ANH.
As part of the emergency and contingency plans of the ports, there are some equipment.

The country is currently in the process of updating the National Contingency Plan.

As commitment within this process is to compile an inventory of resources.
Emergency management at sea

Each agency of the State has specific actions before, during and after the Emergency.

Colombia is currently in the process of updating the National Contingency Plan to identify all these roles and responsibilities and to amend Decree 321 of 1999.
General coordination scheme
Use of an Management System (MS)

Act 1523 of 2012
By which the national disaster risk management policy is adopted and the National System of Disaster Risk Management is established

UNGRD Resolution No. 0262 of March 8, 2016
Creation of the Inter-institutional working Committee to discuss the updating of the National Contingency Plan

Updating of the National Contingency Plan PNC
It’s divided into two Protocols

- Maritime
- Continental

Protocol I.
Protocol II.
**Use of an Management System (MS)**

**Protocol I:** For loss of containment of hydrocarbons and hazardous substances arising from the operations of maritime activities.

**Response Coordination Instances**

*National System for Disaster Risk Management (SNGRD)*

*Unified Command Post (PMU)*

*Regional Rescue Coordination Center*

*Territorial Disaster Risk Management Councils, CTGRD*

*National Committee for Disaster Management, CN-MD*
Commercial Pollution Response Resources & Equipment Stockpiles

- According to the Emergency and Contingency Plans of the operators.

- The lists of the equipment/resources available is included in the Plan and it is approved by environmental license.

- Every Plan must have a list of contact person and/or website.

- The Updating of the National Contingency Plan PNC will consider a list of resources called as The National Group of equipment and experts.
Additional OPRC/IMS Information

Cartagena Convention.
• The Contracting Parties shall, within their means, cooperate in the adoption of all preventive and corrective measures necessary to protect the marine and coastal environment of the Wider Caribbean Region, in particular the coastal areas of the islands of the region, against incidents of oil spills.

PROTOCOL ON COOPERATION TO COMBAT OIL SPILLS IN THE WIDER CARIBBEAN REGION (Act 56 of December 23, 1987)
• This document was adopted on March 24, 1983 in the city of Cartagena de Indias and entered into force for the country on April 2, 1988.
Thanks!

Profesional de Defensa Marco Antonio Olier Mendoza
Responsible Área de Seguridad Integral Marítima y Portuaria
molier@dimar.mil.co
www.dimar.mil.co
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Report From México
Developed by: Cpt Heriberto Cano
Delivered by: SEMAR
Contact information:
+525556246500 ext 7148
heribertocm@semar.gob.mx
Status of offshore activities

- Are there any of the following offshore oil/gas:
  - exploration,
  - proven finds,
  - production,
  - Public discussion/interest

- If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating
Status of offshore activities

Exploration, Proven finds, Production, Public discussion/interest

Major Concern
Status of offshore activities
National Pollution Response Resources & Equipment Stockpiles

- Are there national spill response resources/equipments available in your country? Yes. Plan Nacional de Contingencias

- If so, have they been assessed? Yes

- Are they adequate for:
  - Tier 1?
  - Tier 2?
Activación del PNC

INCIDENTE CONTAMINANTE

REBASA SU CAPACIDAD

ATIENDE LA EMERGENCIA Y SOLUCIONA EL PROBLEMA

SI

SI

SI

REBASA SU CAPACIDAD

REBASA SU CAPACIDAD

REBASA SU CAPACIDAD

PLAN INTERNO

PLAN LOCAL DE CONTINGENCIA

PLAN REGIONAL DE CONTINGENCIA

PLAN NACIONAL DE CONTINGENCIA

SEMAR COORDINA LA ATENCIÓN A NIVEL NACIONAL

SI

no

no

no
Marco Jurídico del PNC

✓ Ordenamientos Nacionales.
   Â Constitución Política de los Estados Unidos Mexicanos.
   Â Ley de Seguridad Nacional.
   Â Ley General de Protección Civil y su Reglamento.
   Â Ley General del Equilibrio Ecológico y de la Protección al Ambiente.
   Â Ley Federal del Mar.

✓ Ordenamientos Internacionales.
   Â CONVEMAR 82 (Derecho del mar).
   Â OPRC-90 (Contaminación contra Hidrocarburos).
   Â MARPOL 73/78 (Contaminación por buques).
   Â CLC-92 (Responsabilidad civil por daños contaminantes).
   Â SOLAS-74 (Seguridad de la vida humana en la mar).
   Â IOPCFUND (Indemnización de daños por contaminación).
   Â Plan MEXUS (Acuerdo de Cooperación EE.UU. y México).
National Pollution Response Resources & Equipment Stockpiles

ï What type of equipment and where?
What agency[s] are in charge of National Spill Response equipment?

- SEMAR, ASEA (SEMARNAT)
- PEMEX

Are lists of National equipment/resources available to be included in the Regional OPRC Plan? If necessary

If so, list contact person and/or website:

- Almirante Luis Gerardo Alcala Ferraez
- cc2@semar.gob.mx
Commercial Pollution Response Resources & Equipment Stockpiles

Are there commercial companies with spill response resources/equipment available in your country?

Yes

If so, with what company[ies] & where?

Same Ports, besides PEMEX, others international companies

If so, are lists of the equipment/resources available to be included in the OPRC Plan?

When drills are into implementation we have this information.
Additional OPRC/IMS Information

Are there any established National, Bi-lateral MOUs for spill response equipment in your country?

Yes

Â With another country (who)?
US
Â With a company or companies (who)?
Â Not yet.
Use of an Incident Management System (IMS)

Â Have any IMS been adopted? Yes
Â If so, nationally, locally, commercially...etc? at Federal, state and municipality level; enforced bay federal agencies.
Â If so what system[s]? First of all PNC, but applied to all incidents types
Â Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly?
Â Yes.
Â What (if any) are your IMS needs?
Â Cooperation between all authorities.
Â Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report?
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Â Report From: Republic of Suriname
Â Developed by : NCCR, MAS, NATL. SECURITY, NIMOS,
    RAC/REMPEITC Caribe, STAATSOLIE & OSRL
Â Delivered by: GOVT. OF SURINAME
Â Contact information: MAS
Status of offshore activities

Are there any of the following offshore oil/gas:

- Exploration,
- Proven finds,
- Production,
- Public discussion/interest

If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating:

KOSMOS ENERGY / PETRONAS / TULLOW OIL
APACHE / EXXON MOBILE
Status of offshore activities

What, if any are your biggest offshore oil spill concerns? xxxx
National Pollution Response Resources & Equipment Stockpiles

ï Are there national spill response resources/equipments available in your country? YES

ï If so, have they been assessed? YES

ï Are they adequate for:
  Â Tier 1 ? YES
  Â Tier 2 ? YES

ï What type of equipment and where?
  BOOMS / OFF SHORE – from the baseline 60 NM Sea inwards
What agency[s] are in charge of National Spill Response equipment? STAATSOLIE N.V.

Are lists of National equipment/resources available to be included in the Regional OPRC Plan? xxx

If so, list contact person and/or website:
NCCR: nccr@sr.net, MAS: info@mas.sr,
STAATSOLIE N.V.: madaal@staatsolie.com
NIMOS: info@nimos.org
Commercial Pollution Response Resources & Equipment Stockpiles

ï Are there commercial companies with spill response resources/equipment available in your country? NA

ï If so, with what company[ies] & where? NA

ï If so, are lists of the equipment/resources available to be included in the OPRC Plan? NA

ï If so, list contact person and/or website: NA
Additional OPRC/IMS Information

Are there any established National, Bi-lateral MOUs for spill response equipment in your country? YES

With another country (who)?
Trinidad & Tabago, Canada, USA.

With a company or companies (who)?
APACHE, EXXON MOBILE, KOSMOS ENERGY
PETRONAS, TULLOW OIL
Use of an Incident Management System (IMS)

Â Have any IMS been adopted? YES
Â If so, nationally, locally, commercially...etc? NATIONALLY
Â If so what system? AN UNIFIED COMMAND SYSTEM
Â Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly? YES
Â What (if any) are your IMS needs? xxxx

Â Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report? xxxx
Sub-Regional OPRC Convention Workshop on:
Oil Spill Response Equipment, Simulation Exercises &
Co-ordination with Neighboring Countries
Cartagena, Colombia
October 2-6, 2017

Å Report From [Guyana]
Å Developed by: Trey Simon & Joel Hinds
Å Delivered by: Trey Simon & Joel Hinds
Å Contact information: treysimon21@gmail.com
Status of offshore activities

**Yes**

- Exploration
- Proven finds
- Production (the country produces no oil currently)
- Public discussion/interest

**Yes**

If so, list the major facilities, vessels, refineries, lightering/bunkering, oil/gas companies operating.

There are four companies undertaking exploration work in Guyana. Exxon-Mobil, Repsol, Century Guyana Ltd and CGX.
Exploration information

- Exploration wells drilled in the Stabroek Block
  - Liza-1 well discovery was announced in May 2015
  - Liza-2 well was drilled and tested in July 2016
  - Liza-3 well was drilled in October 2016, confirming a world-class resource discovery in excess of 1 billion oil-equivalent barrels
  - Liza-4 well was drilled in March 2017 and encountered more than 197 feet of high-quality, oil-bearing sandstone reservoirs, which will underpin a potential Liza Phase 2 development
  - Appraisal drilling at Liza 3 identified an additional high quality deeper reservoir directly below the Liza field, which is estimated to contain resources between 100 and 150 million oil-equivalent barrels
  - Skipjack-1 was drilled in September 2016; this did not encounter commercial quantities of hydrocarbons
  - Payara-1 well discovery was announced in January 2017; Payara is ExxonMobil’s second oil discovery on the Stabroek Block and was drilled in a new reservoir – encountering more than 95 feet of high quality, oil bearing sandstone reservoirs
**Explanation info cont’d**

- Payara-2 well discovery was announced in July 2017; Payara-2 encountered 59 feet (18 meters) of high-quality, oil-bearing sandstone reservoirs.
- The Payara discovery is estimated at approximately 500 million oil-equivalent barrels.
- Snoek-1 well discovery was announced in March 2017; Snoek is ExxonMobil’s third oil discovery on the Stabroek Block and was drilled in a new reservoir—encountering more than 82 feet of high quality, oil bearing sandstone reservoirs; the well data will be analyzed in the coming month to better understand the full potential of the well.
- The gross recoverable resources for the Stabroek block are now estimated at 2.25 to 2.75 billion oil-equivalent barrels, including Liza, Liza Deep, Payara and Snoek.
- The Stena Carron drillship will move to the Turbot field once Payara-2 operations are completed.
- Further exploration drilling will continue into 2018 in the multiple leads already identified.
Names of vessel assisting in drilling operations

Vessels in engaged in transportation of fuel water and equipment to Drill ship.
- Hannah
- Cat Island
- HOS Commander

Name of drill ship currently drilling
1. Stenna Caron

They're no refineries, lightering/bunkering currently in Guyana.
Status of offshore activities

What, if any are your biggest offshore oil spill concerns?

Oil spill from the wells, single hull ships or super tankers transporting vast bunker of fuels
National Pollution Response Resources & Equipment Stockpiles

- Are there national spill response resources/equipments available in your country?
  - Yes

- If so, have they been assessed?
  - Yes
National Pollution Response Resources & Equipment Stockpiles

- Are they adequate for:
  - Tier 1 (yes)
  - Tier 2 (no)

- What type of equipment and where?
  - Boomers and Skimmers
What agency[s] are in charge of National Spill Response equipment?

- CDC, MARAD, EPA, COAST GUARD, GGMC, GAICO and Ministry of Natural Resource.

Are lists of National equipment/resources available to be included in the Regional OPRC Plan?

- (Yes)

If so, list contact person and/or website:

- CDC, MARAD, EPA, COAST GUARD, GGMC, GAICO and Ministry of Natural Resource.
Commercial Pollution Response Resources & Equipment Stockpiles

- Are there commercial companies with spill response resources/equipment available in your country?
  - Yes

- If so, with what company[ies] & where?
  - GAICO. The company is working along with international experts from Polyecogroup, a company registered in the Netherlands with offices in 26 countries worldwide.

- If so, are lists of the equipment/resources available to be included in the OPRC Plan?
  - If so, list contact person and/or website:
    - gaico@bbgy.com
Additional OPRC/IMS Information

- Are there any established National, Bi-lateral MOUs for spill response equipment in your country?
  
  There’s non currently but we are currently working with neighbouring countries experienced in the oil sector to get a bi-lateral spill response plan.
  
  Â With another country (who)?
  
  Â With a company or companies (who)?
Use of an Incident Management System (IMS)

- Have any IMS been adopted? *(yes)*
- If so, nationally, locally, commercially...etc?
- If so what system[s]? *(OPRC)*
- Does everyone who would be participating in an Oil Spill Response IMS know their respective responsibility clearly?
- Not as yet but we are currently working towards that
- What (if any) are your IMS needs?
- On scene Commander training, operational training and proper short time response training.
- Any additional OPRC and/or IMS Initiatives, updates, offers of cooperation/assistance, concerns ...etc to report?