

Canada's Marine Oil Spill Preparedness Regime

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CFO



Introduction

- In 1993 amendments were made to the Canada Shipping Act (CSA) to strengthen Canada's marine oil spill response capability. The amendments required:
 - That ships (as defined in the CSA) operating in Canadian waters south of 60⁰ N Latitude and oil handling facilities located in Canada south of 60⁰ N Latitude have
 - An Oil Pollution Emergency Plan (OPEP)
 - An arrangement with a certified response organization.
 - The establishment of Canadian certified response organizations.

“The Regime”

- Under the leadership of Transport Canada, designed to ensure that industry has the capability to clean up its own oil spills.
- Industry funded and managed.
- Requires Industry to maintain a response capability of up to 10,000 tonne covering marine regions South of 60° N latitude in Canada.
- Requires the establishment of Transport Canada -certified Response Organizations.

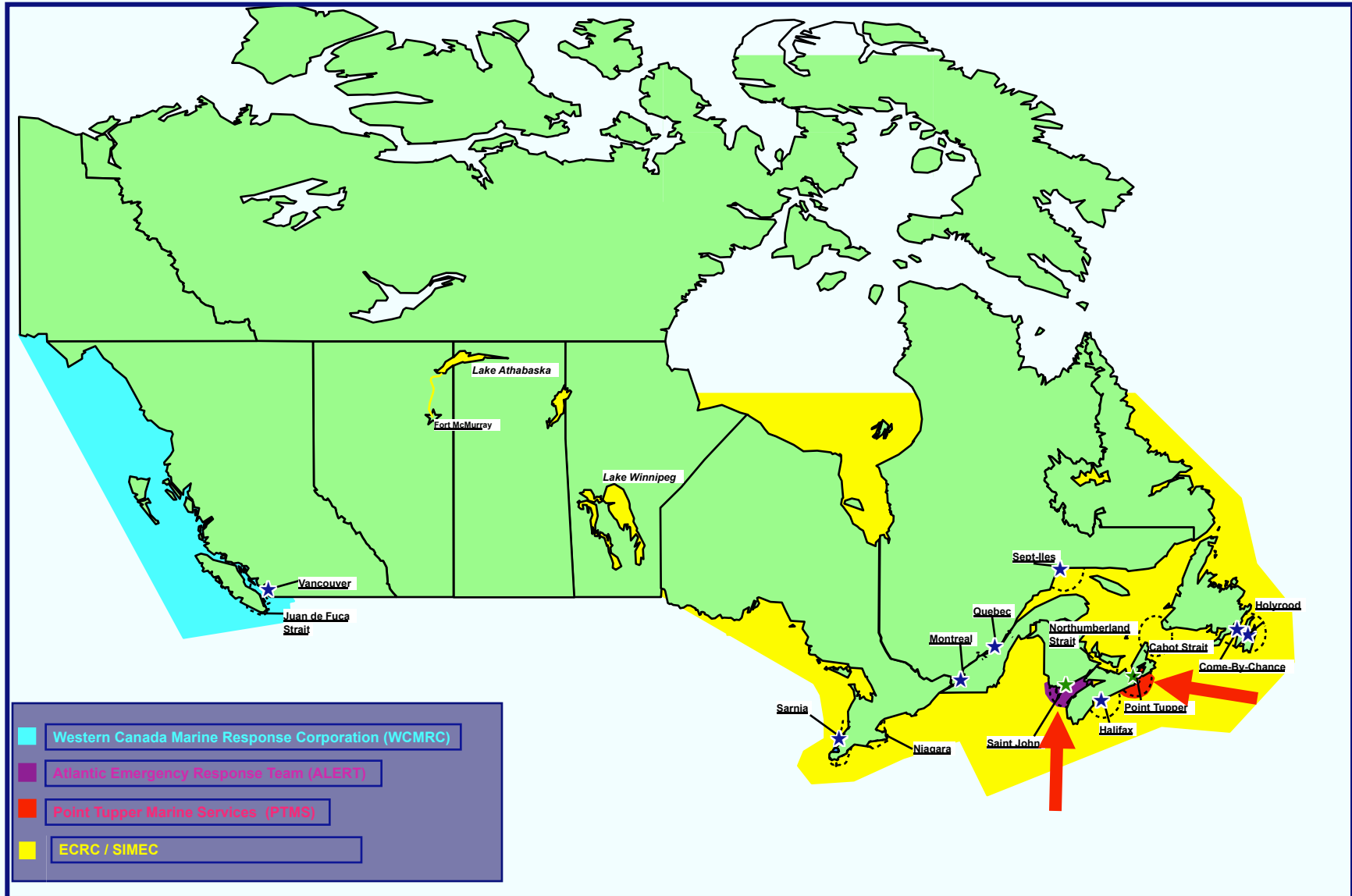
“The Regime”

- Ships must have an Oil Pollution Emergency Plan on board.
- Oil Handling Facilities must have:
 - Emergency plans on site, and
 - Equipment and resources on-site to immediately contain and control a spill incident at the facility.
- Requires ships and oil-handling facilities to have arrangements in place with a certified Response Organization.

Response Organizations

- The private sector has established four response organizations within Canada to meet the requirements of the CSA and to provide marine oil spill response services.
 - Planning Capacity of 10,000 tonnes
 - Provide the personnel, the equipment and management for responses

Response Organizations



ECRC~SIMEC

Vision

- Within its Geographic Area of Response, be the provider of choice for marine ships and oil handling facilities for oil spill response preparedness requirements under the CSA.



ECRC~SIMEC

Mission

- Maintain a state of marine oil spill response preparedness that is consistent with the legislation and capable of providing a real response at an affordable cost to our members.
- Provide value added preparedness services to all of our members.
- Assume a leadership role in the preparedness to oil spill response within the community at large.

Six Response Centres



Equipment



- 2,500 tonnes capacity at each of the six Response Centres
- Road transportable
- Operators accompany the equipment



Equipment



ALUMINUM BOAT



SEATRUCK



GP BOOM



STORAGE BARGE



SKIMMER



FLOATING STORAGE TANKS



SWEEP SYSTEM



HEAVY OIL SKIMMING

Buster Systems

Ocean Buster



Current Buster



Harbour Buster



Heavy Oil Capability

Heavy Oil Pumps



Skimmer Modifications

Inventory

Boats: 100 plus

Booms: Sheltered water 54,000 m

Unsheltered water 6,000 m

Skimmers: 100 plus (Various capacities, manufacturers, sizes)

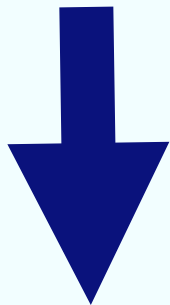
Storage: Solid barges 34 (13,000 m³

capacity) Flexible barges 30 (3,000 m³ capacity)

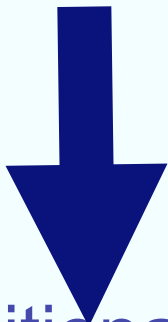
*Note: Most equipment is road transportable and most is found on trailers to allow cascading to other regions for enhanced response capability.

Response Capacity

15,000T ECRC overall capacity (6 x 2,500T)



30,000T via Mutual Aid - 4 Canadian RO's



Additional capacity via Global Response Network

Training Program

➤ 519 Trained Responders

- 74 Great Lakes
- 205 Quebec
- 240 Atlantic



➤ 100 Advisors Identified and Trained

- 19 National
- 81 Regional

➤ 38 ECRC Personnel



Area Plans

- GAR (Geographic Area of Response) is divided into 32 sectors
- A Plan is developed for each sector
 - Spills of 2,500 and 10,000 tonnes
- A better understanding of the environment
- Pre-established response strategies
- Logistical resources pre-identified

UPDATED EVERY 3 YEARS

ECRC~SIMEC Clients

- 2300 total members
 - 2200 Vessel Members
(700 Bulk & 1500 Non-Bulk)
 - 100 Oil Handling Facilities Members
 - 11 Subscribers
(Elective Members Pay an Annual Fee, but no cargo Fee)



Enbridge Pipelines, Montreal Pipe Line Ltd., TransNorthern Pipelines, Hibernia Mgt & Dev. Co. Ltd, Husky Oil, Exxon-Mobil, Suncor Energy, Chevron, MI Drilling Fluids NS, Bruce Power Tiverton, Hydro Quebec, Nova Chemicals (Canada) Ltd., IOL Pipe Line, CN Rail

Role for Members

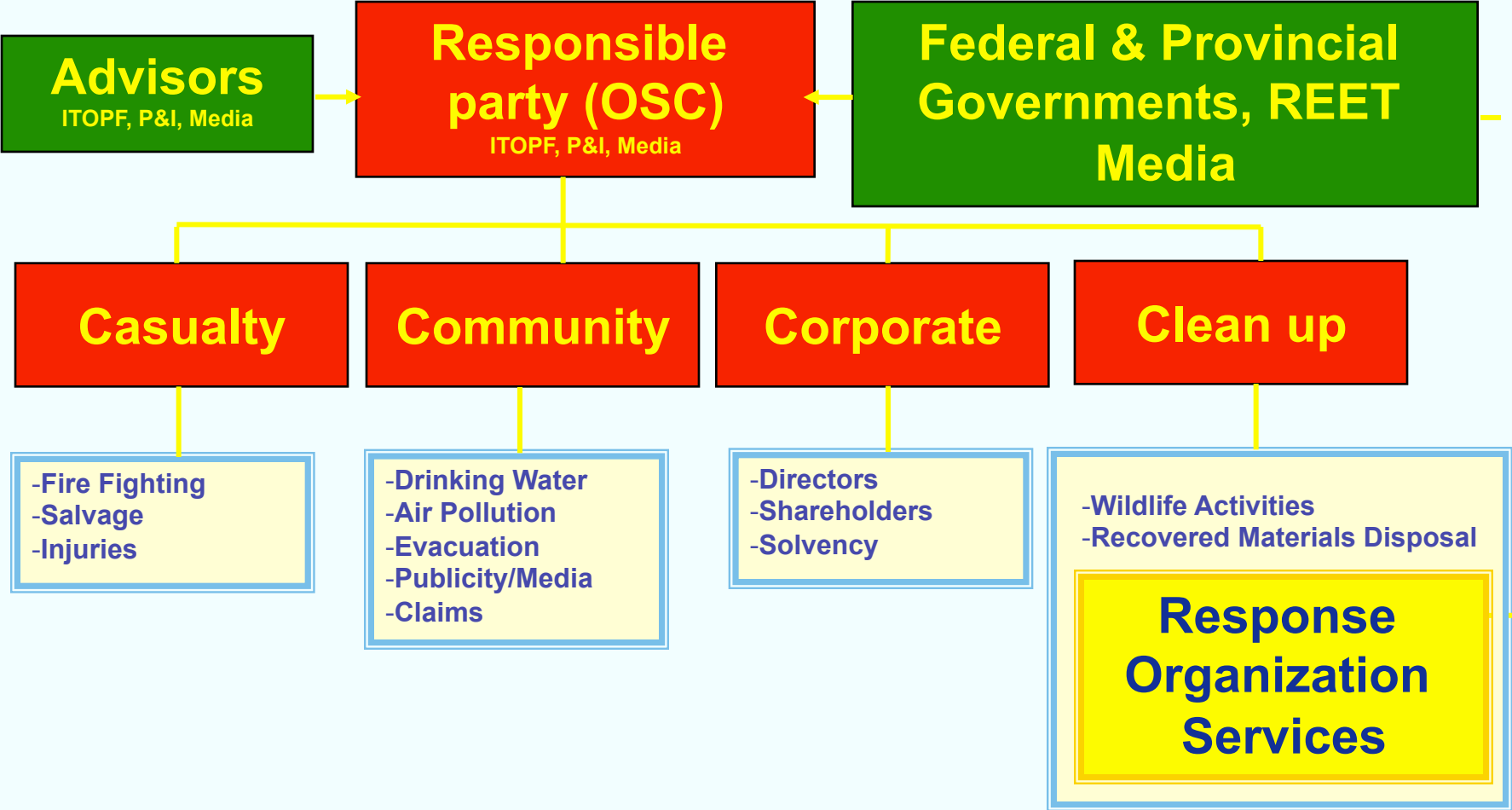
- Provides a means to meet the regulated requirement for members to have an agreement with a certified RO.
- ECRC provides marine oil spill response services, when requested.
- ECRC can provide to the "On-Scene Commander" (OSC) a plan of action, equipment, resources and operational management for an oil spill clean-up effort.

ECRC~SIMEC Services

Do not include:

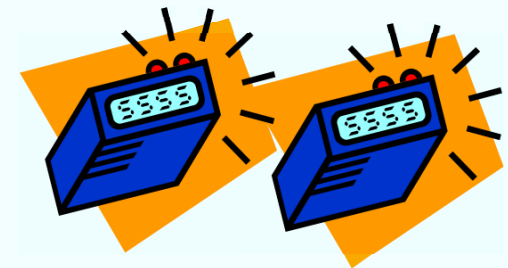
- ❌ Acting as On Scene Commander
- ❌ Lightering of vessels
- ❌ Third party damage Claims or adjustments or
- ❌ Natural Resource Damage Assessment
- ❌ Chemical Spills (other than for shareholders where ECRC trained and equipped)

ECRC~SIMEC / RP Relationship



How Does It Work?

- Emergency Notification 613-930-9690
- Duty Pager
- Activate Contractors Needed
- Activate Required Regional Personnel (Pagers)
- Notify / Activate Other ECRC~SIMEC Regions as required
- Management System Initiated



Spill Responses

- Typically 20 - 30 incidents per year
- Between 2004 to 2009 = 134 responses
- > 270 in 15+ years (3 Regions)
 - Varying sizes
 - Involving different products
 - Varying durations
 - Different weather
 - Involving 0 - 450 workers

Services to the Offshore

- Contracts for bulk & non-bulk ships (CSA 2001)
 - Drill ships / Rigs in transit
 - Seismic vessels
 - Supply vessels
 - First-leg tankers
- Offshore operator agreements
 - Drill ships / Rigs while drilling
 - Offshore production platforms

Services to the Offshore

- Access to ECRC's Spill Management Team
- Offshore operator supply vessel; crew training for Single Vessel Side Sweep Systems and Sorbent Sweep Systems
- Offshore responder training (NL) for 20 ECRC responders for deployment of Offshore Response Equipment
- Offshore operator exercise development and coordination (NL)

Services to the Offshore

- Storage and Maintenance of Offshore Response Equipment Including:
 - Transrec 150 System
 - NorLense 1200 Containment System
 - Single Vessel Side Sweep System (SVSS)

Services to the Offshore

- Additional Services to the Offshore:
 - Responsible for sorbent inventories, sampling kits, tracker buoys, and bird recovery equipment on Suncor and Husky supply vessels
 - Logistical support for bird rehabilitation center in St. John's

Services to the Offshore

Large Offshore boom system being deployed



Large NorLense 1200 boom systems being deployed from supply vessel



Standard Offshore SVSS skimming system being deployed from supply vessel.



Tranrec 150 skimmer ready for deployment from the deck of a supply vessel



Questions???

