



# The French Navy's spill response means

- Master Plan of minimum response means
- Commissariat emergency stockpiles
- Spill response equipment
- Situation of dispersant stocks and use
- Chartering port tugs
- Summary of government/private offshore response means

# Master Plan of French Navy response means

- Scaled for a spill of:
  - 15,000 T in mainland France
  - 500 T in overseas French territories
- Part of a 2008-2011 procurement programme
- The Master Plan defines the **minimum** means to be stored at each naval base
- It is adapted to the specificities of each zone.

# Master Plan Elaboration

**Elaboration** based on three main aspects

- Risk assessment
- Consideration of geographical constraints
- Consideration of nautical means and infrastructure of naval base



# Commissariat emergency stockpiles

- Emergency stockpiles are established under the Commissariat Department using the same criteria as the Master Plan
- PPE / CPE
- Small response equipment

# Spill response equipment

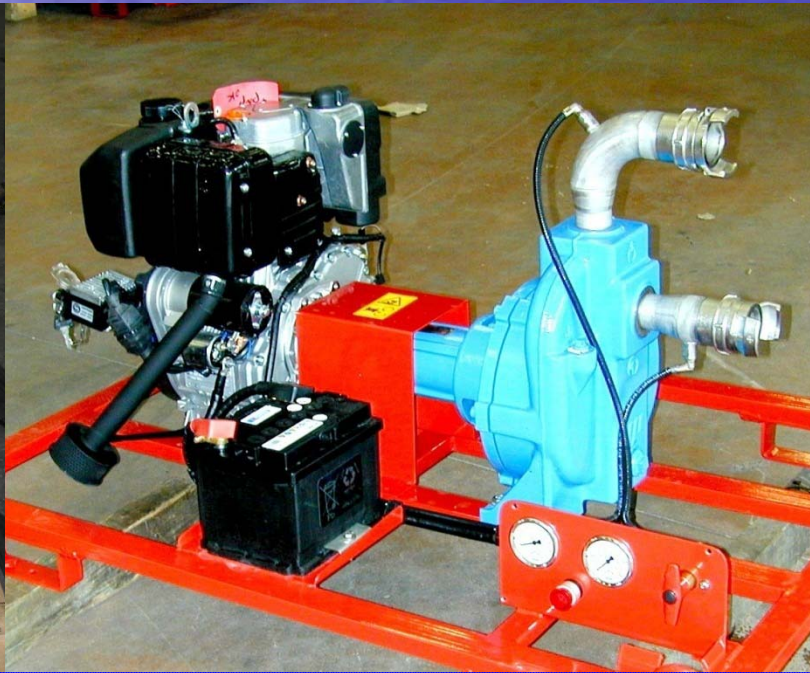
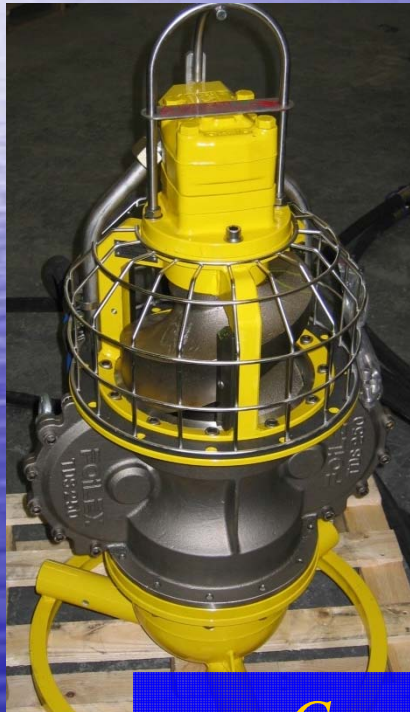
## Quantification according to operational spill response options

- Pumping means
- Containment means
- Recovery means
- Chemical treatment (for oil only)



# Pumping

- TDS200 submersible hydraulic pump (85 m<sup>3</sup>/h)
- GRINDEX submersible electropump (30 m<sup>3</sup>/h)
- Diesel motor pump (50 m<sup>3</sup>/h)



*Coupled with tanks onboard OSRV, towed floating tanks or storage barges*



# Containment

- Offshore inflatable boom
- Port and coastal boom



# Recovery

- FOILEX weir skimmer
- LAMOR oleophilic brush skimmer
- KOMARA oleophilic disc skimmer
- ❖ Coupled with tanks onboard OSRV, towed floating tanks or rigid tanks
- ❖ Choice orientated towards skimmers with excellent **selectivity**



# Recovery

**FOILEX weir skimmer**



**KOMARA oleophilic skimmer**



**LAMOR oleophilic brush skimmer**



**TRANSREC system**





# Containment - Recovery

- Sweeping arms
- Seinip trawl nets
- Thomsea trawl nets





# Chemical dispersion

- Study on resizing stockpiles in mainland France currently in progress
- Establishment of a contract with OSR currently in progress

# Chemical dispersion

- Maintenance of a dispersant stockpile
  - 500 m<sup>3</sup> Brest – Toulon
  - 250 m<sup>3</sup> Cherbourg
  - 50 m<sup>3</sup> overseas French territories
- Dispersion conditions analysed according to:
  - type of pollutant
  - spill location
  - meteorological conditions



# Chemical dispersion

➤ Nautical means



➤ OSR aerial means



# French Navy's nautical means



OSRV (oil spill response vessels)





# Port tugs chartered

- Tug chartering contract
  - 1 day min. /15 days max. per year
  - 12 contracts passed from Dunkirk to Menton
  - 4 contracts currently under tender
- Summary of towing, fire fighting and pollution response capacities

# Summary of government/private offshore response means

- Overview of means liable to be mobilised
  - Offshore means of ports with chartered tugs
  - Equipment Directorate means - POLMAR Land stockpiles
  - FOST means
  - Foreign means through bilateral agreements
  - EMSA means
  - Private means





MARINE NATIONALE



*Thank you for your attention*



CEPPOL

On duty 24/7

[www.ceppol.fr](http://www.ceppol.fr)