Escalating Costs of Wreck Removal
a Salvors Perspective

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WHAT IS A WRECK REMOVAL?

- Wreck is a Thing of No Commercial Value
- Wreck Removal is Ordered by the State
- Risk Covered by P&I out into the reinsurance market
FACTORS CONTRIBUTING TO CHALLENGES AND ESCALATING COSTS

- Vessel Size Technical characteristics of the wreck
- Location of a wreck;
  - logistics – depth - weather
- Coastal State Authorities
- Stakeholders intervention
- Environmental Concerns
- Media Pressure
- Increasing requirement for certainty
VESSEL SIZE

Knock Nevis - 458m
Emma Maersk - 397m
Queen Mary II - 345m
Berge Stahl - 342m

USS Enterprise - 311m
Costa Concordia - 290m
APL Panama - 260m
RENA, NEW ZEALAND, 2013-Current

- 1,356 Container
- More Weather days then work days
- Over $450mil to date
PROBLEMATIC CARGOS

- Complicated Topography
- Bad Weather conditions
- Use of Aerial Teleferique for offloading 30,000 tons of rotting grain

OCEAN BREEZE, CHILE, 2013

- LPG Carrier Fully Laden
- Engine Room Fire
- Remote Location – FiFi Equipment Mobilization

AINTREE, TRINIDAD, 2013
LOCATION OF WRECK SITES AND CHARACTERISTICS OF THE SITE

- Primarily Availability & Response Time of Large Assets
  - Heavy Lift
  - Tugs & barges
  - Lightering vessels
- Characteristics of wreck site
  - Depth
  - Attitude of Wreck
  - Nature of Bottom
  - Prevailing Weather
CONTRACTUAL ARRANGEMENTS

- Negotiations
- Mobilization;
  - Personnel
  - Specialized Equipment
- Transition of ER to Wreck Removal Expert
THE COSTA CONCORDIA
AN ENVIRONMENTAL EFFORT:

- Protect the seabed
- Bring Giglio back to its original state
- No further damage!
- Site of Special Scientific Interest
PROTECTING THE SEABED
NO FURTHER DAMAGE
UPRIGHT ON PLATFORMS
LOCATION AND LOGISTICS
COMPLEX TOPOGRAPHY – HEAVY LIFT
REFLOATING GOAL
CONCORDIA RE-FLOATED!
THE TOW TO GENOA
LESSONS LEARNED

- Cooperation of 24 nationalities, 520 personnel
- Logistics – Remote location
- Equipment/Chartering Personnel/Management
- Request for 100% Certainty
- How to work with the world watching – Social Media
- Increase in state authority intervention
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