The Tiger

The Salvor’s Role in Pollution Mitigation

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Prevention First

• The precept of prevention continues even when an unexpected emergency causes oil to enter the water
• In the face of pollution we...
  – Prevent continuing pollution by securing the source
  – Prevent the spread through containment
  – Prevent additional pollution during salvage operations through sound work practices
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Vessel Condition
Response Objectives

• Contain and recover
• Raise vessel to eliminate long term pollution
• Minimize release during salvage operations
• Defuel vessel after raising
Basin Configuration
Contain and Recover
Double Containment

Graving Dock

Tide Slides
Salvage Operations

- Right the vessel
- Construct WFP’s (cofferdam?)
- Deploy 17 electric submersible pumps
- Install diverter system
- Dewater vessel
- Stabilize
- Defuel
Righting the vessel

- Moffat & Nichol
- Winches
What is a WFP?
Watson Freeboard Panels
Cofferdam Complete
Pump Installation
Pump Control House
Diverter System

- Duplicate pumps in each compartment
- One pump directly overboard
- Other pump through diverter “Y”
- One side of “Y” overboard
- Other side of “Y” to frac tank

- If water discharging, it goes overboard
- If oil encountered, diverter switched and discharge goes to tank
Dewater Vessel
High Speed
Floating and Stable
Defueling Operation

- Obtained tank drawings from “The Perfect Storm” boat Tamarack
- Systematic defueling/dewatering in concert with naval architect
- 37,000 gallons of oil and oil water mixture removed from vessel