



Why Do We Need An Oil Spill Response Capability?

- ▶ ¹World oil production equals 75 Million barrels per day
- ▶ ²Seaborne oil trade accounts for 10 Billion tonne-miles per year
- ▶ Oil spill prevention is working to reduce the volume of oil spilled, but spills still happen
- ▶ ³The ocean is the greatest supplier of essential resources in the world;
 - Natural services are worth \$21 trillion a year
 - Oxygen for 1 of every 2 breaths we breathe
 - Jobs for 350 million people
 - Industry worth US \$1.2 Trillion
- ▶ Our common aim is to protect our shared values!



1 Source U.S. Energy Information Administration
2 Source ITOFF
3 Source World Economic Forum

A Globally Recognized Framework

- ▶ Tiered preparedness and response is recognized as the basis on which to establish a robust oil spill preparedness and response framework, which should;
 - be commensurate with the assessed risk;
 - encourage cooperation, mutual assistance and integration of shared resources;
 - be fully scalable via a mechanism of escalation through the three tiers;
 - be tested, maintained and verified as part of a defined preparedness framework; and
 - employ the most appropriate response options reflecting a net environmental benefit analysis (NEBA)

What Is Tiered Preparedness And Response?

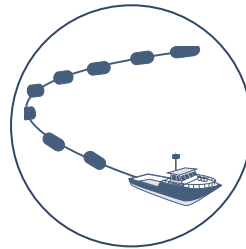
Tiered Preparedness and Response is an internationally recognized planning approach used to:

- Define and structure levels of oil spill response capabilities; this approach is not used to categorize the size or scope of a spill
- Plan for appropriate resources to be rapidly mobilized and cascaded to an incident location
- Enable response escalation for an oil spill of any magnitude

The following resources are considered when using Tiered Preparedness and Response:



RESPONDER
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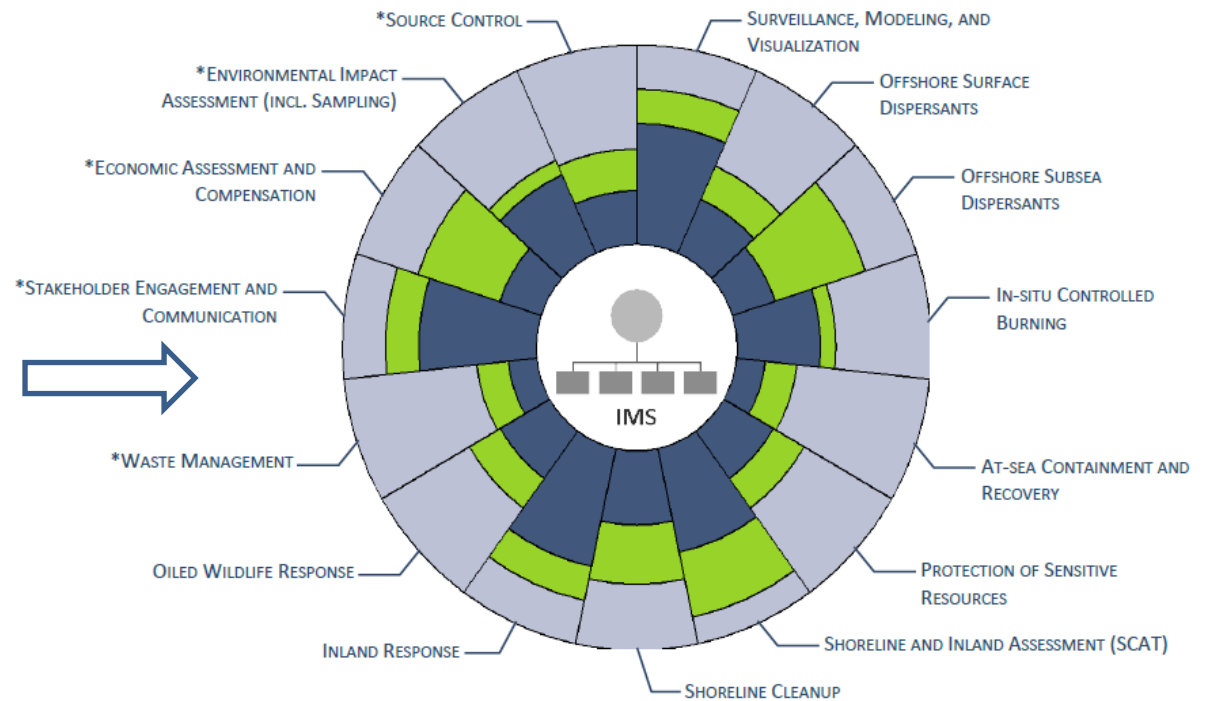
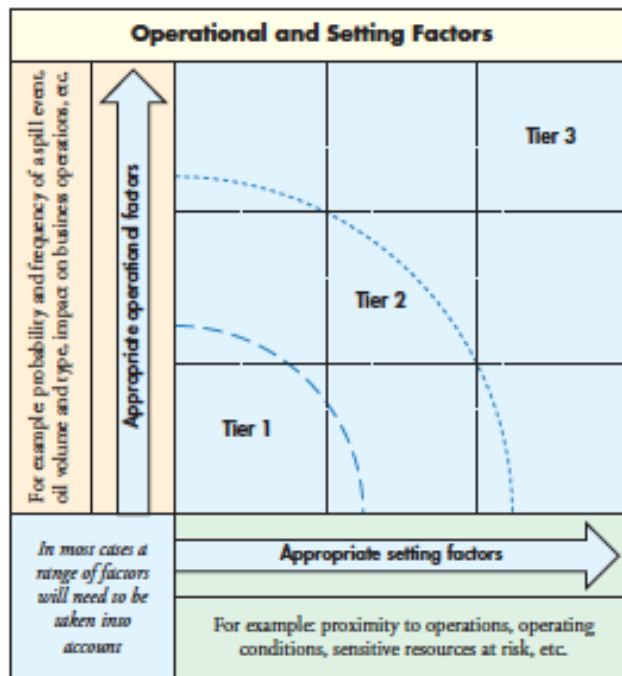
EQUIPME
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ADDITIONAL SUPPORT

The Evolution of TPR

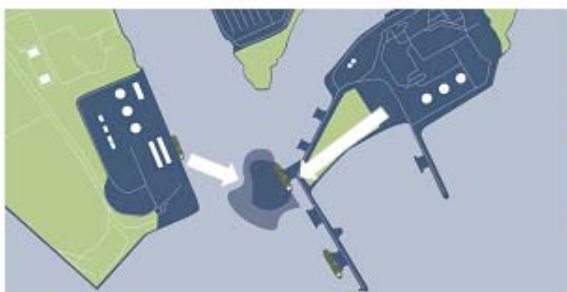
► Evolvement of the Tiered Preparedness and Response Model



Determine Response Capability - Tiered Approach

- ▶ Three Tiers categorised for planning purposes using:
 - Potential severity of impact and requisite complexity and scale of response

TIER 1:



RESOURCES NECESSARY TO HANDLE A LOCAL SPILL AND/OR PROVIDE AN INITIAL RESPONSE



TIER 2:



NATIONAL OR REGIONAL RESOURCES NECESSARY TO SUPPLEMENT A TIER 1 RESPONSE



TIER 3:



GLOBAL RESOURCES NECESSARY FOR SPILLS THAT REQUIRE A SUBSTANTIAL ADDITIONAL RESPONSE DUE TO INCIDENT SCALE, COMPLEXITY, AND/OR IMPACT POTENTIAL



Common Barriers And Targets for Success

- ▶ Underestimating the magnitude of the problem
 - Underestimating the volume of oil spill or the scale of the response required
 - Prudent over-response is required
- ▶ Not wanting to escalate or ask for help
 - A proactive culture is required involving trust within organisations
 - Secure collaboration in industry, between industry and government and between governments;
 - encourage cooperation
 - mutual assistance
 - integration of shared resources

Common Barriers And Targets for Success

- ▶ Limited response options available
- ▶ Net Environmental Benefit Analysis
 - All applicable response options should be considered
 - Select only response options to minimize impacts
 - Engage with stakeholders
 - Defined process before, during and after a spill
 - Where possible difficult decisions should be made prior to an incident



Common Barriers And Targets for Success

- ▶ Lack of familiarity and understanding
- ▶ All personnel should be appropriately trained and competent to perform the required role
- ▶ Response capabilities should be regularly exercised and tested;
 - Exercises should involve all parties
 - Lessons identified should be captured and actioned, making them lessons learnt
 - Potential barriers should be identified and overcome to ensure a seamless and cohesive response can be achieved

Common Barriers And Targets for Success

- ▶ Protracted immigration and customs clearance
- ▶ Logistical bottlenecks
- ▶ Key stakeholders such as customs and immigration should be;
 - Consulted and made part of the solution
 - Involved in exercises
- ▶ Legitimate process to expedite clearance should be understood and tested
- ▶ Logistical plans should be drawn-up covering mobilisation through to demobilisation

Summary - How Can We Plan for Success

- ▶ Prudent over-response
- ▶ Encourage cooperation
- ▶ Required resources should be identified and access to them full understood
- ▶ Ensure personnel are appropriately trained and competent to perform their function
- ▶ Involve all relevant stakeholders
- ▶ Employ NEBA to select the most appropriate options
- ▶ Test all parts of the capability regularly by way of exercises and drills

Thank you - Stay in touch

www.oilspillresponse.com

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Training courses

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Spill preparedness (Technical handbooks and other reference materials)

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