

Oil Spill Contingency Planning:

What are we talking about?

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What are we talking about?

Oil spill contingency planning



What and why?

What

- Oil spill contingency planning is the process of **developing a suitable spill response capability**, that is in **compliance with the regulatory framework** and **commensurate with the oil spill risks** of an organisation, facility, nation

Why

- OPRC 90
- International Convention on Oil Pollution Preparedness, Response and Cooperation, 1990**

OPRC 90

International Convention on Oil Pollution Preparedness, Response and Cooperation, 1990



Oil Spill Response

OPRC 90

Who?

- Developed by the IMO
 - International Maritime Organization
- Through the MEPC
 - Marine Environment Protection Committee

Basic intent of OPRC 90

- Promote points of contact within countries
- Promote the preparation of national and local contingency plans
- Develop notification procedures
- Promote and develop cooperation agreements
- Develop national and regional resources
- Encourage international cooperation

OPRC 90

Article 3

- 💧 OPRC 90, Article 3, **Oil Pollution Emergency Plans**
- 💧 Each party to OPRC 90 requires plans for
- 💧 Flagged vessels
- 💧 Offshore units under its jurisdiction
- 💧 Authorities or operators in charge of sea ports, oil handling facilities under its jurisdiction

Meaning

- 💧 Any of the entities that could have an oil pollution incident which could enter the marine environment, will have a written plan to assist with the containment, recovery and formal notification process of a spill and response effort
- 💧 Coordinated and approved within a national system, under the CNA, in accordance with Article 6

OPRC 90

Article 6

- OPRC 90, Article 6, **National and regional systems for preparedness and response**

Meaning

- Each Party shall establish a national system for responding promptly and effectively to oil pollution incidents
- Coordinated and approved within a national system, under the CNA
- NOSCP
- Pre-positioned equipment, planned exercises/training, detailed plans and communications (TPR)

Tiered preparedness and response

Internationally recognised planning approach



Oil Spill Response

Tiered preparedness and response

What is TPR?

- Tiered preparedness and response is an internationally recognised system
- In accordance with OPRC 90, a CNA has the responsibility to understand and devise a country tiered structure for oil spill preparedness and response
- TPR is used to categorise and structure levels of preparedness and response to allow seamless escalation in the event of an oil spill incident
- Establishing a robust oil spill preparedness and response framework
- TPR also allows for resources to be cascaded rapidly from local, regional/national and international stockpiles

Tiered preparedness and response

What is the aim of TPR?

- 💧 Provide suitable resources at the right place allowing capability:
- 💧 Commensurate to the assessed risk
- 💧 Encouraging cooperation, mutual assistance and shared resources
- 💧 Scalable response via mechanisms for escalation (3 tier system)
- 💧 Tested, maintained and validated
- 💧 Employs appropriate response options reflecting NEBA/SIMA

Basically, TPR ensures

- 💧 Pre-positioned, and warehoused, oil spill combatting equipment and ancillaries
- 💧 Exercise programme for organisations
- 💧 Training for personnel
- 💧 Detailed plans
- 💧 Communication capability
- 💧 Mechanism to coordinate

Tiered preparedness and response

Tier 1 - local

- Preparedness and response capability for spills that may be mitigated by locally available resources
- Facility specific OSCP

Mechanisms for Tier 1

- Trained spill response personnel on-site
- Oil spill equipment and associated apparatus on-site

Tiered preparedness and response

Tier 2 - regional

- Preparedness and response capability for spills that require equipment and personnel resources beyond those available for Tier 1
- Assistance from entities outside of the immediate geographical area which include national resources
- Organisation/regional OSCP

Mechanisms for Tier 2 delivery

- Mutual aid agreements
- Industry led cooperatives
- Government led cooperatives
- 'for profit' commercial centres

Tiered preparedness and response

Tier 3 – international/global

- Preparedness and response capability which requires resources on an international scale, mobilisation of national and international resources
- Bilateral and multilateral cooperation and agreements
- Customs and immigration procedures
- NOSCP

Response network for Tier 3

- OSRL (Oil Spill Response Limited)
- MSRC (Marine Spill Response Corporation)
- CCA (Clean Caribbean and Americas)
- AMOSC (Australian Marine Oil Spill Centre)
- PAJ (Petroleum Association of Japan)
- GRN (Global Response Network)
 - A collaborative group of companies from around the world*

What is an Oil Spill Contingency Plan (facility/operator)

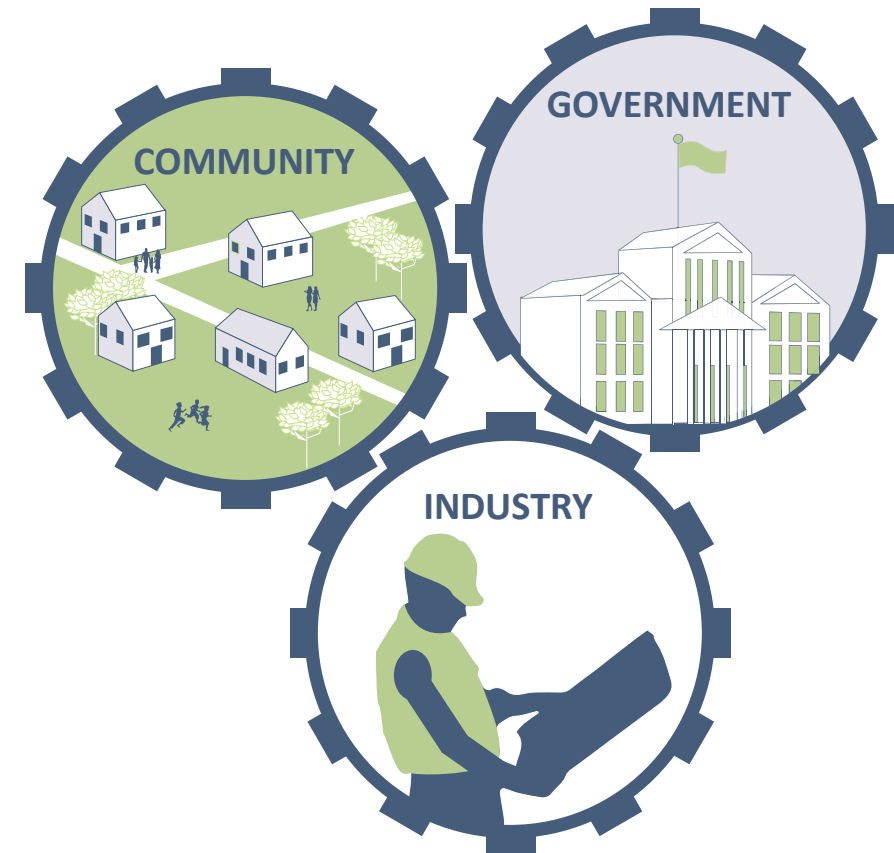
A plan with critical information

What is an Oil Spill Contingency Plan

Why plan?

- 💧 Legislative requirement
- 💧 Inline with industry good practices
- 💧 Better control of the incident
- 💧 Highlights tiered capability
- 💧 Delegated roles and responsibilities
- 💧 Ensure effective response
- 💧 Correct use of response techniques

Who is involved?



What is an Oil Spill Contingency Plan

The plan should be

- 💧 Based on spill risk assessment
- 💧 User-friendly
- 💧 Concise
- 💧 Adaptable
- 💧 Practical
- 💧 Able to interact with other plans
- 💧 Agreed and communicated with stakeholders
- 💧 Updated and revised

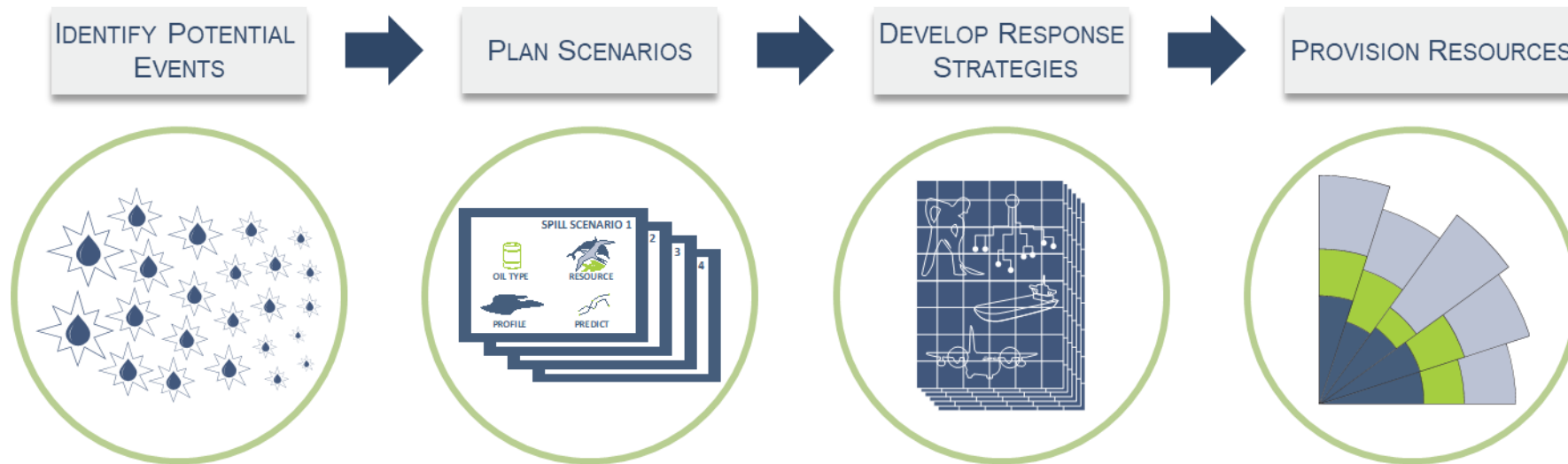
Benefits of a plan

- 💧 Saves time in an emergency
- 💧 Provides a response structure and procedures
- 💧 Improves operational efficiency and effectiveness
- 💧 Instils confidence in response processes and teams
- 💧 Identifies links with response organisations
- 💧 Helps protect company reputation

What is an Oil Spill Contingency Plan

Key to preparedness

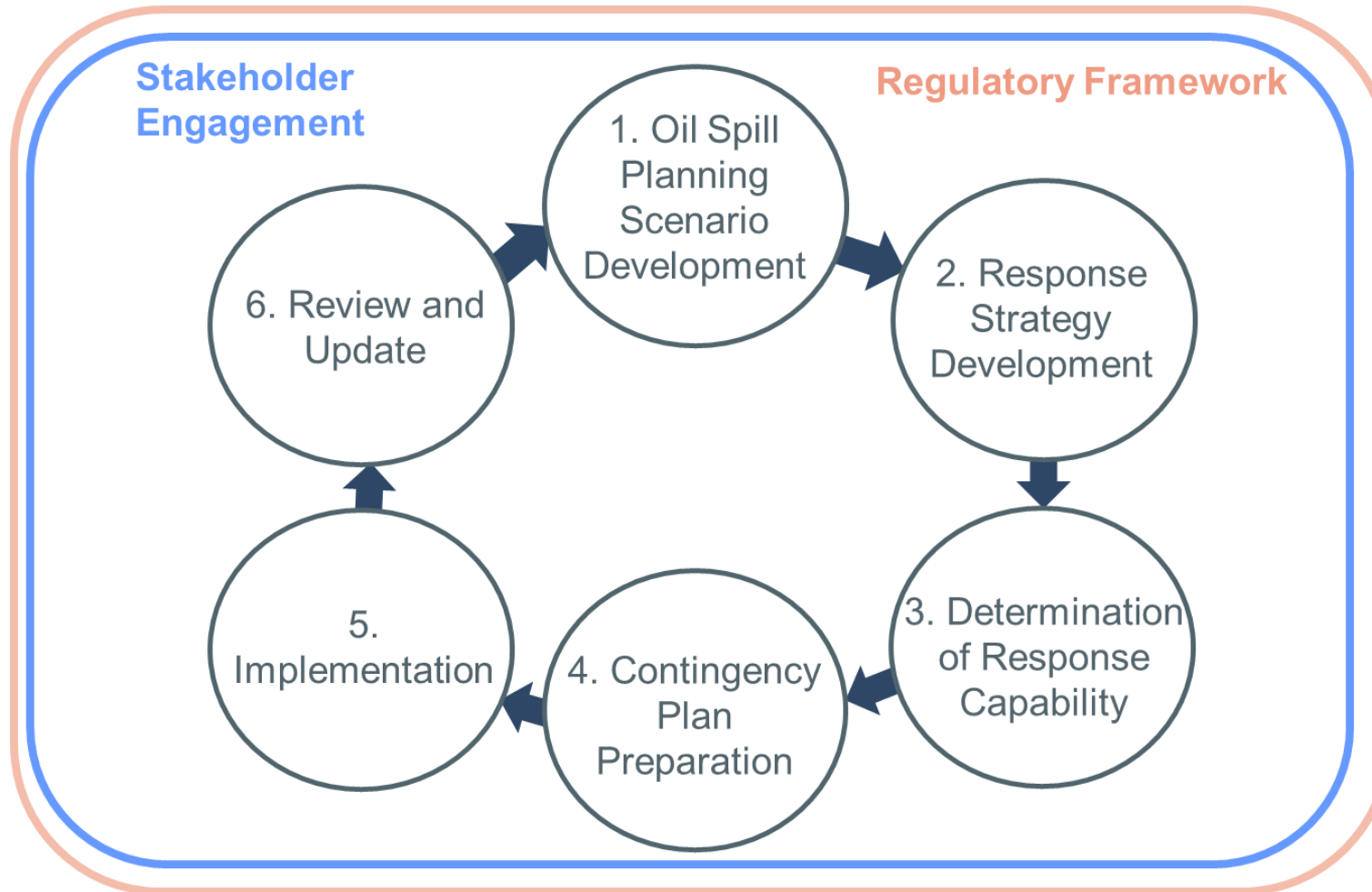
The key for contingency planning and preparedness is made up of four core components



A scalable process that can apply to one facility or multiple operations across an entire geographic region

What is an Oil Spill Contingency Plan

The planning process



What is an Oil Spill Contingency Plan

Regulatory framework

- 💧 International legislation implemented in country through national legislation and regulation
- 💧 OSCP may require consultation with relevant stakeholders
 - 💧 Government bodies
 - 💧 Environment groups
 - 💧 NGOs
- 💧 OSCP may require approval at a regional and/or national level

Stakeholder engagement

- 💧 When forming a plan there should be coordination between:
 - 💧 Responsible party
 - 💧 Government
 - 💧 Industry
 - 💧 Communities
 - 💧 Scientific experts
 - 💧 Other potentially impacted stakeholders
- 💧 Open communication and transparent decision making
- 💧 Clarification of policy and realistic expectations

What is an Oil Spill Contingency Plan

1. Scenario development

- Oil spill risk assessment
 - Likelihood
 - Types
 - Behaviours
 - Quantity
 - Sensitivities
- Identify and analyse potential oil spill incidents
- Evaluate response challenges and risk
- Select oil spill planning scenarios

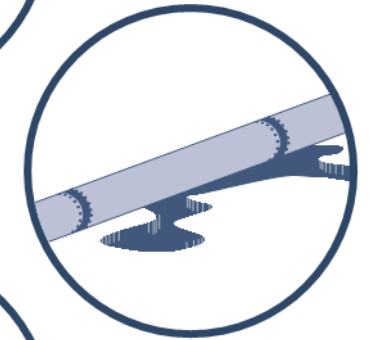
Location



OFFSHORE



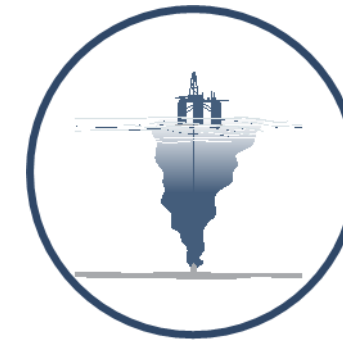
NEAR SHORE



ONSHORE



INLAND



SUBSEA

What is an Oil Spill Contingency Plan

2. Response strategy development

- Set scenario response objectives
- Consider response strategy options
- Net Environmental Benefit Analysis (NEBA)
- Site Impact Mitigation Assessment (SIMA)

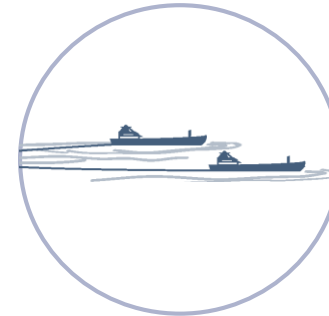
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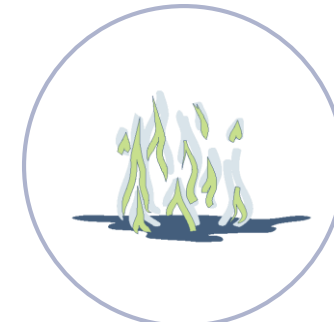
NATURAL PROCESSES



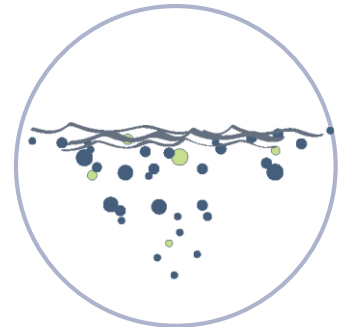
PHYSICAL REMOVAL



MECHANICAL RECOVERY



IN-SITU BURNING



DISPERSANTS

What is an Oil Spill Contingency Plan

3. Determine response capability

- 💧 Tactical planning and resource identification
- 💧 Tiered provision of resources
- 💧 Supporting response elements

4. Plan preparation/key components

- 💧 Operational Overview
- 💧 Key actions and checklist
- 💧 Response organisation
- 💧 Risk assessment
- 💧 Oil spill modelling
- 💧 Response strategy
- 💧 Response resources
- 💧 Waste management
- 💧 Contacts

What is an Oil Spill Contingency Plan

5. Implementation

- 💧 Familiarisation of the plan
- 💧 Conduct training and exercises
- 💧 Verify capability and usability of the plan



6. Review and update

- 💧 Review the planning process
- 💧 Plan maintenance should be scheduled in line with company policy
- 💧 Plan update should occur
 - 💧 Inline with statutory regulation
 - 💧 When an operational risk changes
 - 💧 Following lessons learnt from a real-time incident and/or exercise

What is a National Oil Spill Contingency Plan

A plan with critical information



Oil Spill Response

What is a National Oil Spill Contingency Plan

What is a NOSCP?

- It is a plan prescribing national preparedness and response systems to effectively respond to oil spill incidents
 - It ensures an effective oil spill response will reduce environmental, economic and health impacts
 - Includes public, non-governmental organisations, and private resources, for responses to marine oil spills
- A NOSCP explains and describes the national preparedness and response system as prescribed in OPRC 90, article 6

What is a National Oil Spill Contingency Plan

NOSCP objectives

- 💧 The main objective of the NOSCP is to ensure a coordinated, timely and effective response to oil spills
- 💧 The NOSCP will communicate government expectation, and focus, on national policies and protocols for oil spill preparedness and response for industry
- 💧 The NOSCP will describe government roles and responsibilities, alongside procedures and processes when responding to an oil spill
- 💧 The NOSCP should remain strategic, not tactical
- 💧 Tactical plans are authored regionally and/or by owners/operators (facility/regional OSCP)

What is a National Oil Spill Contingency Plan

Critical elements of a NOSCP

- Oil spill risk assessment
- Notification process
- Oil spill assessment
- National oil spill response management organisation
- Sensitivity mapping
- Response resources
- Response strategies
- Waste management
- Demobilisation and termination of response
- Restoration and post-spill monitoring
- Training, exercising and plan updating requirements
- Cost recovery (claims, etc.)

What is a National Oil Spill Contingency Plan

Basically, an NOSCP

- Provides critical information **at a national level**
- Highlights operational plans
- Defines the oil spill response management structures **nationally**
- Should be readily available prior to a **major** oil spill

Remember...

- The NOSCP should define national policy and roles and responsibilities for oil spill preparedness, planning and response
- The NOSCP should highlight legislation that authorises the CNA or lead agency to prepare and implement the plan



Thank you...