

Introduction to NOPSEMA

Safety, Integrity & Environmental Management Regulation

APIA

29 June 2012

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Immediate Cause:
Primary cementing
integrity failure



Root Cause:
Systemic failure of management
systems, non-compliance with
operating procedures



- Offshore Petroleum and Greenhouse Gas Storage Act
- Regulating safety
- Regulating well integrity
- Regulating environmental management

- Regulatory framework for offshore petroleum exploration & recovery
- Provides for the grant of titles including:
 - exploration permits
 - production licences
 - pipeline licences
- Titles are administered by the Joint Authority (JA)
- NOPSEMA administers safety, well integrity & environmental management
- NOPTA is responsible for assisting & advising the JA & responsible Commonwealth Minister

2005 **NOPSA established** for regulation of safety (1 January 2005)

2009 **Productivity Commission**
Review of the regulatory burden on the offshore petroleum industry

2011 **Montara Commission of Enquiry**
Australian Government response to establish single national regulator

NOPSA regulation of well integrity (April 2011)

2012 **NOPSEMA established** including addition of environmental management regulation (1 January 2012)

- NOPSEMA is a statutory agency
- Has an Advisory Board
- Headquarters in Perth – regional office in Melbourne
- 90 staff
- Where conferred, functions under State/NT PSLA
- Provide services on cost recovery basis

- **Operations**

- Offshore petroleum operations
- Offshore greenhouse gas storage operations

- **Scope**

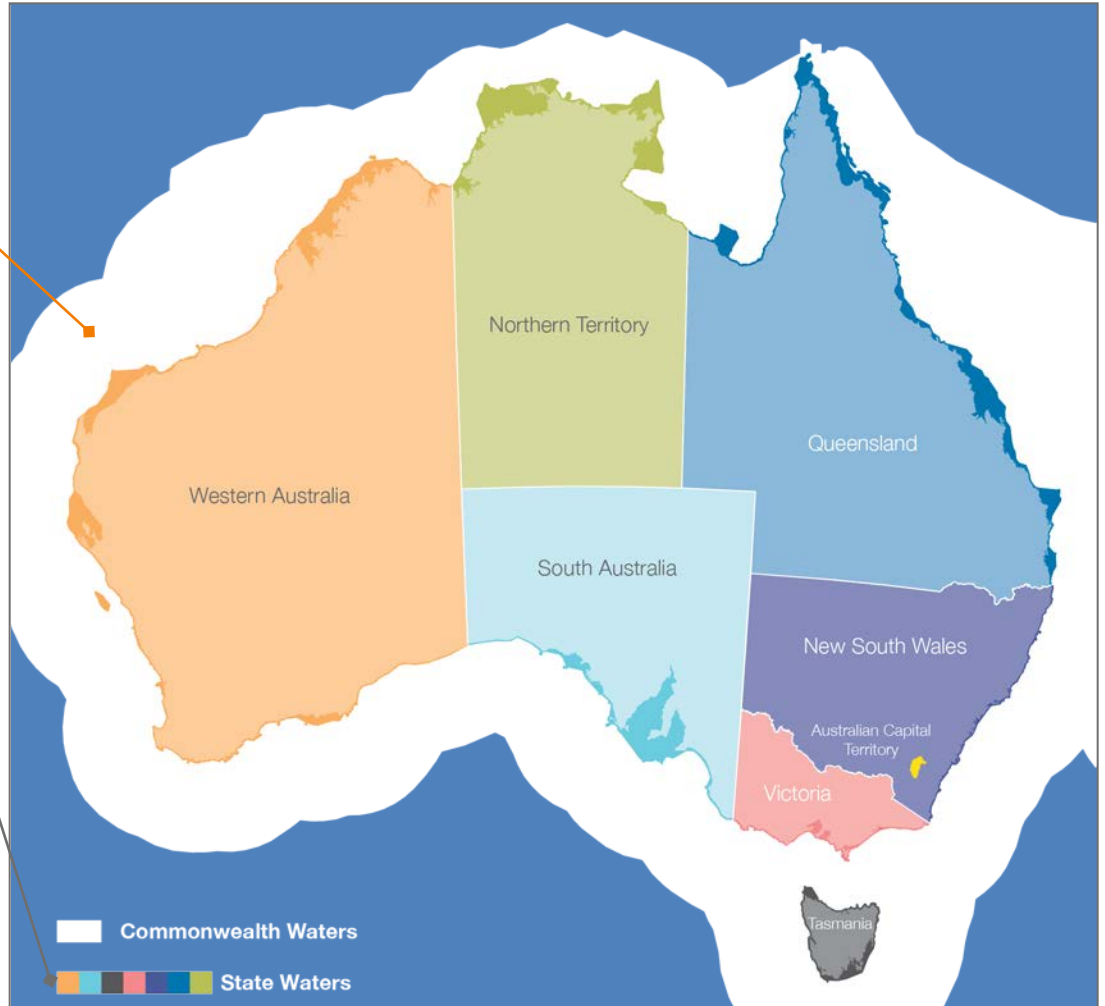
- Occupational health and safety at facilities (incl. pipelines)
- Structural integrity of facilities (incl. pipelines) and wells
- Environmental management of petroleum activities

NOPSEMA

Relevant State/NT
Minister

or

NOPSEMA
where powers
conferred



Commonwealth Offshore Area

Coastal Waters

Internal Waters

* Note - State Waters = Internal Waters + Coastal Waters

3 Nm Limit of State Coastal Waters

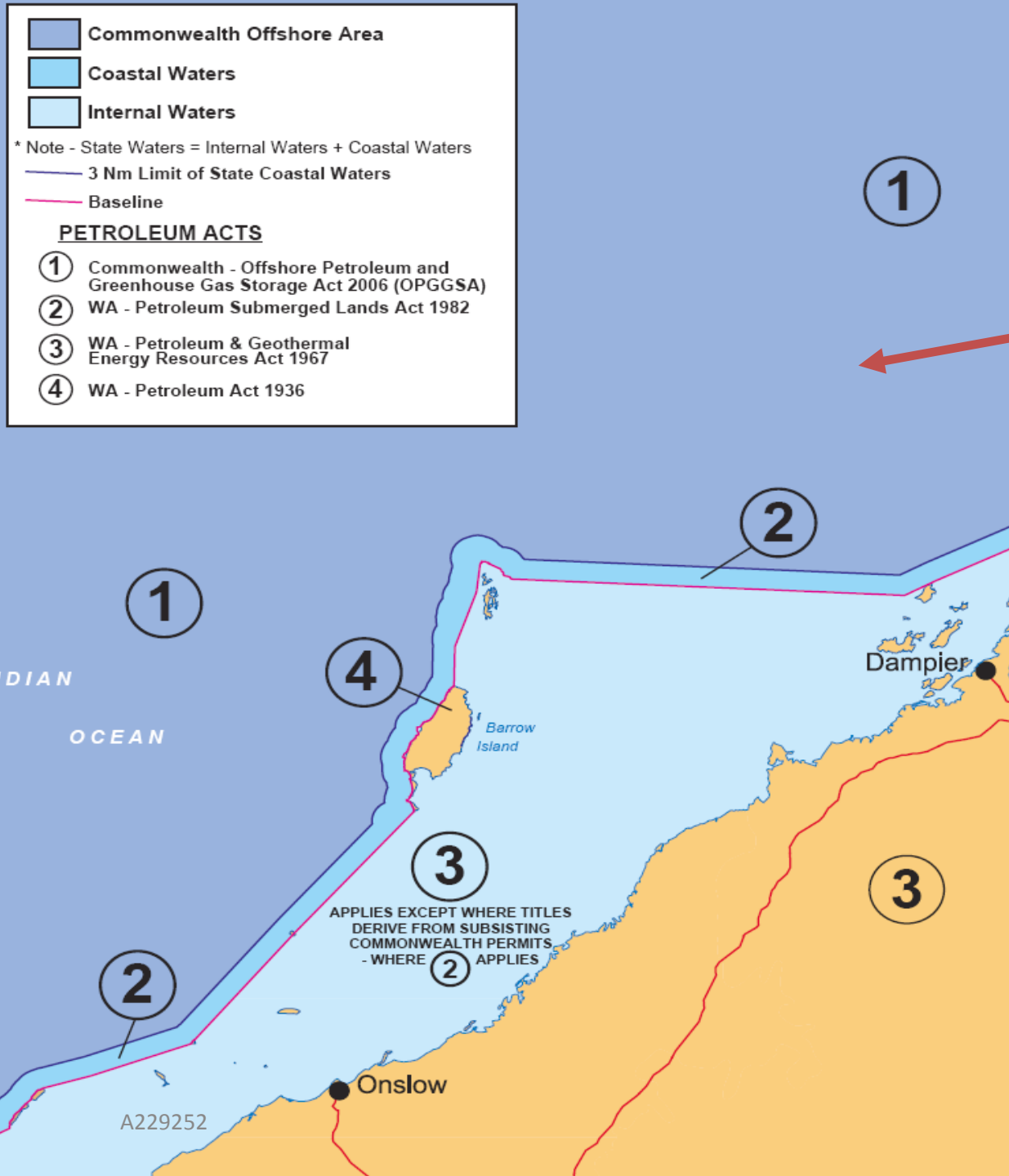
Baseline

PETROLEUM ACTS

- ① Commonwealth - Offshore Petroleum and Greenhouse Gas Storage Act 2006 (OPGGSA)
- ② WA - Petroleum Submerged Lands Act 1982
- ③ WA - Petroleum & Geothermal Energy Resources Act 1967
- ④ WA - Petroleum Act 1936

①

1. OPGGSA





NOPSEMA operates under legislated functions

Monitor & Enforce	Investigate
Promote	Advise
Co-operate	Report

Compliance

Improvement

Governance

- Performance, objective-based regime with some prescriptive elements
- An **independent** Safety and Environmental Management Authority, funded by levies on industry
- An operator's or title-holder's management plan, accepted by NOPSEMA, is required to commence activities:
 - Safety case (SC)
 - Well operations management plan (WOMP)
 - Environment plan (EP)

Assessment

- Sampled evaluation of an operator's plan (Safety Case, Environmental Plan & Well Operations Plan) against the regulations: "Are your plans appropriate?"

Inspection

- Sampled inspection against the accepted SC, WOMP, EP and regulations: "Are you doing what you said you would do?"

Investigation

- Independent inspection to determine what went wrong and determine whether enforcement/prosecution is required: "What wasn't done? What can we learn?"

Enforcement

- Action within powers in the law to secure compliance

Offshore Petroleum and Greenhouse Gas Storage (Regulatory Levies) Act 2003:

- Safety case levy: annual levy payable by operator of facility with safety case in force
- Annual well levy: payable by titleholder for eligible wells (non-abandoned) plus well activity levy: submission of WOMP
- Environment plan levy: on submission of EP and payable by titleholder
- Values worked out in accordance with the Regulations

Functions Aspects	Environmental management	Safety	Wells	General administration
Scope	Petroleum activities	People at facilities	Well integrity	Petroleum exploration and recovery
Dutyholder	Operator of petroleum activities	Operator of facility	Titleholder	Titleholder
Permissioning document	Environment Plan (including OSCP)	Safety Case	Well Operations Management Plan	Titles & conditions
Compliance	Petroleum Project Inspectors	OHS Inspectors	OHS Inspectors	Petroleum Project Inspectors
Powers	Entry, information	OHS related entry, seizure, Notices	OHS related entry, seizure, Notices	Entry, information
Funding	Environment Plan Levy	Safety Levy	Well Levy	Reimbursement from NOPTA

Regulating safety

OPGGSA Schedule 3 contents:

1. Facility definition
2. General duties – Operator is the primary duty holder
3. Workplace arrangements, including HSRs
4. OHS inspections
5. Accident and Dangerous Occurrence reporting

Offshore Petroleum & Greenhouse Gas Storage (Safety) Regulations 2009

- Facility must have a registered operator
- A safety case must be in force (accepted by NOPSEMA) to conduct activities
- Validation:
 - independent confirmation that appropriate standards selected and applied for design, construction and installation
 - part of safety case assessment
- Work at a facility must not be contrary to the safety case in force for the facility

Regulating well integrity

Offshore Petroleum & Greenhouse Gas Storage (Resource Management & Administration) Regulations 2009 [Part 5 – Well Operations]

- NOPSEMA replaced the State Regulator for wells in Commonwealth waters from April 2011.
- NOPSEMA decides:
 - WOMP acceptance/rejection
 - individual well activities approval /rejection

Regulating environmental management

Offshore Petroleum & Greenhouse Gas Storage (Environment) Regulations 2009

- Required before activity commencement
- Must contain an oil spill contingency plan
- Specific objectives-based acceptability criteria:
 - Appropriate for nature and scale
 - Risks as low as reasonably practicable (ALARP)
 - Risks must be acceptable
 - Appropriate performance objectives and standards
 - Appropriate consultation

Scope - what requires an Environment Plan?

- Petroleum and greenhouse gas storage activities?



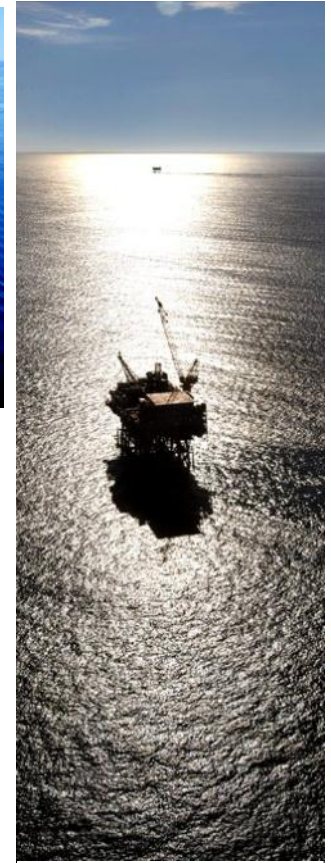
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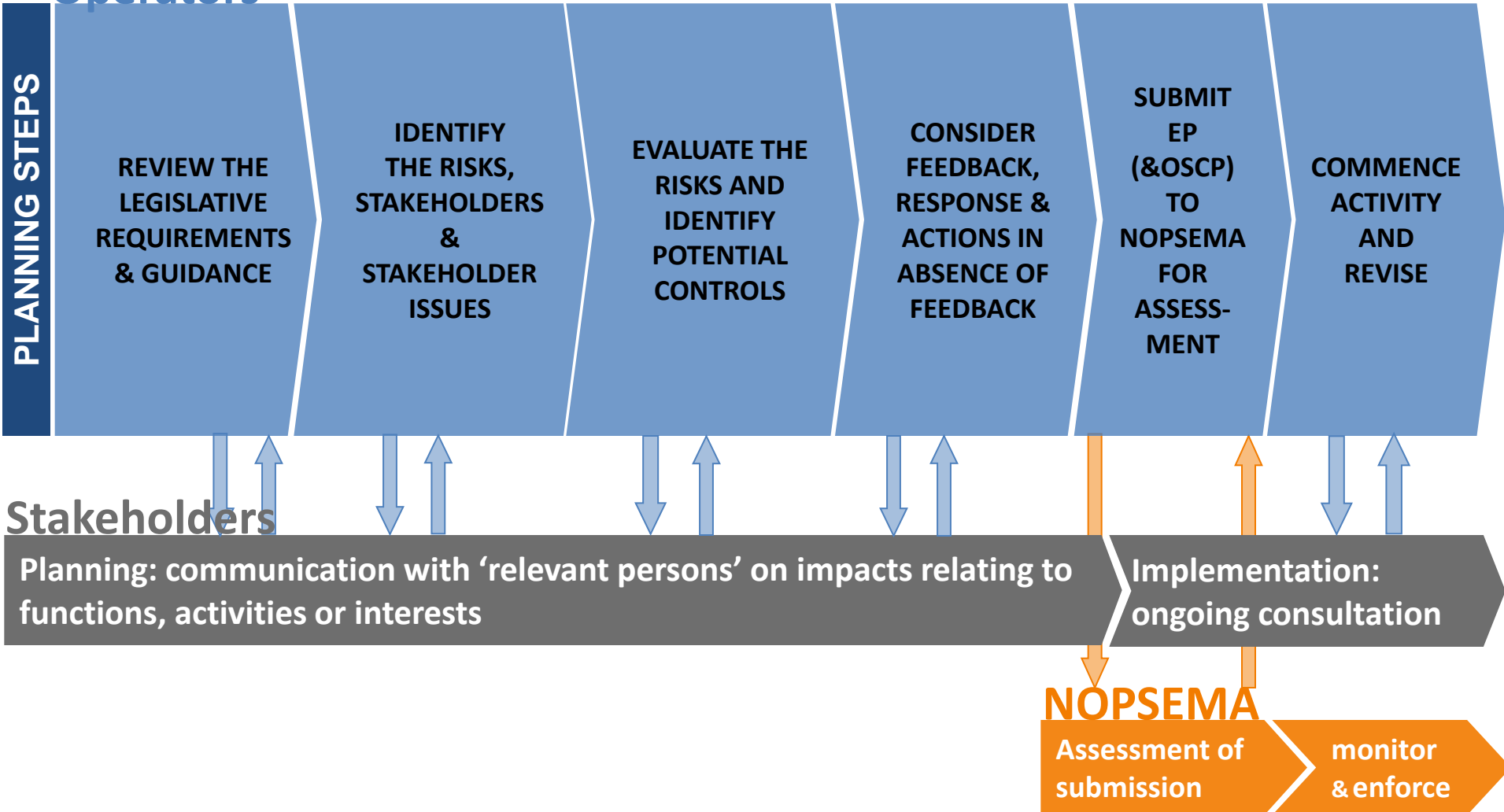
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Petroleum Activity includes:

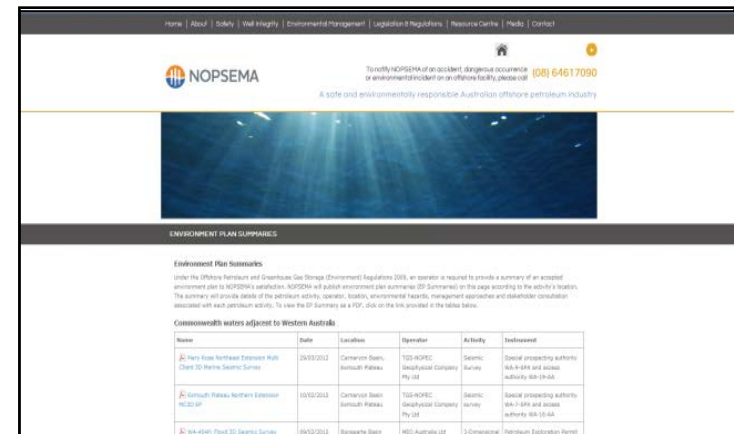
- Construction and installation of a pipeline;
- Operation of a pipeline; and
- Significant modification of a pipeline; and
- Decommissioning, dismantling or removing a petroleum pipeline.

Consultation process in the offshore petroleum EP regime

Operators



- Publish information:
 - Environment plan submission data summary
 - Environment plan summary published after acceptance
- React to notifications by Operator:
 - Commencement/completion of activities
 - Reportable incidents notified to NOPSEMA
- Monitor & enforce compliance



Environment Plan Summaries

Under the Offshore Petroleum and Greenhouse Gas Storage (Environmental) Regulations 2016, an operator is required to provide a summary of an accepted environment plan to NOPSEMA in a publication. NOPSEMA will publish environment plan summaries on this page according to the activity's location. The summary will provide details of the petroleum activity, operator, location, environmental hazards, management approaches and stakeholder consultation associated with each petroleum activity. To view the EP Summaries as a PDF, click on the links provided in the table below.

Name	Date	Location	Operator	Activity	Instrument
New Kool northern Extension Well Cluster (2) (New Kool) Survey	26/03/2012	Carnarvon Basin, Perth Basin	TGS-APQC, Shell/Esso Company Pty Ltd	Seismic Survey	Social processing authority 966-1-06 and seismic authority 06-13-04
Koolath Plateau Northern Extension H202 (g)	05/05/2014	Carnarvon Basin, Perth Basin	TGS-APQC, Shell/Esso Company Pty Ltd	Seismic Survey	Social processing authority 966-1-06 and seismic authority 06-13-04
WA-04041-Field 2D Seismic Survey	05/05/2012	Barrowfield Basin	AGC Australia Ltd	> Operational	Petroleum Production Permit

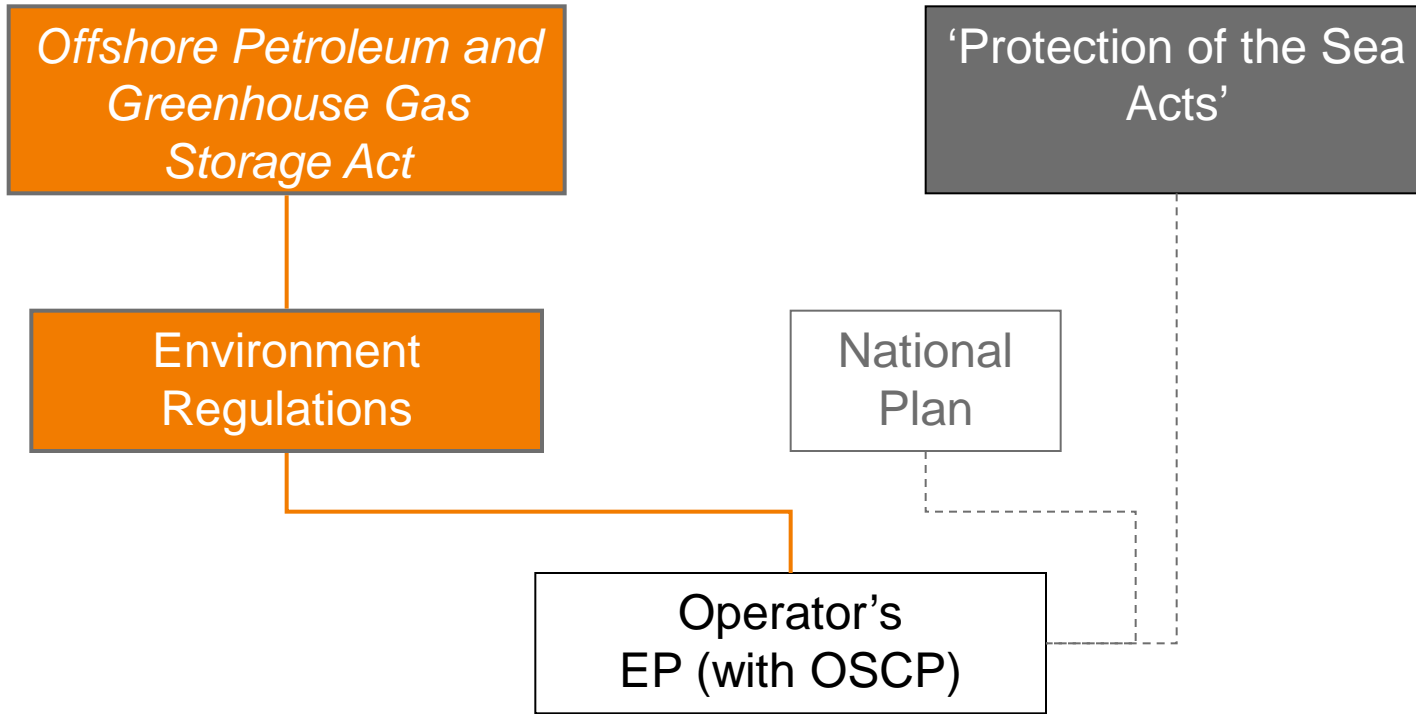
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Oil Spill Contingency Planning (OSCP) Framework

Oil Pollution Preparedness, Response and Cooperation, 1990 (OPRC90)

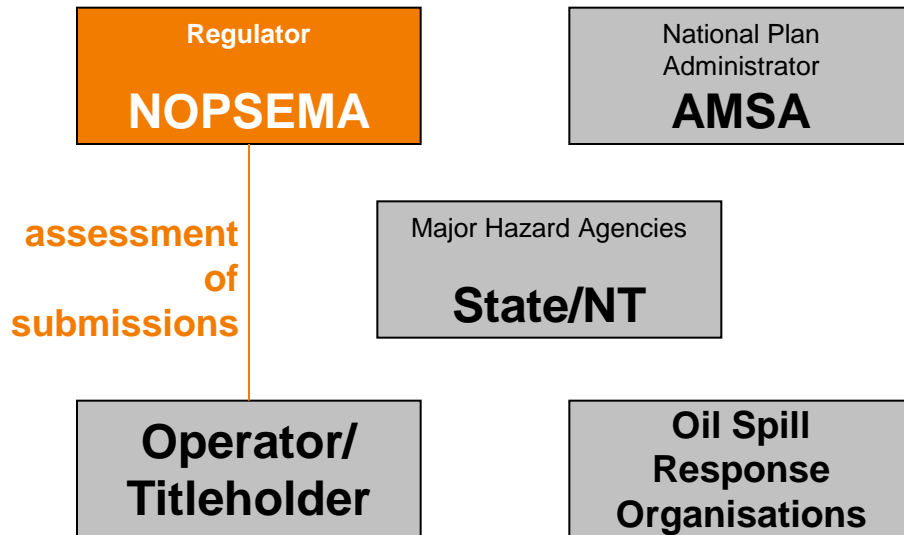
International

Australia

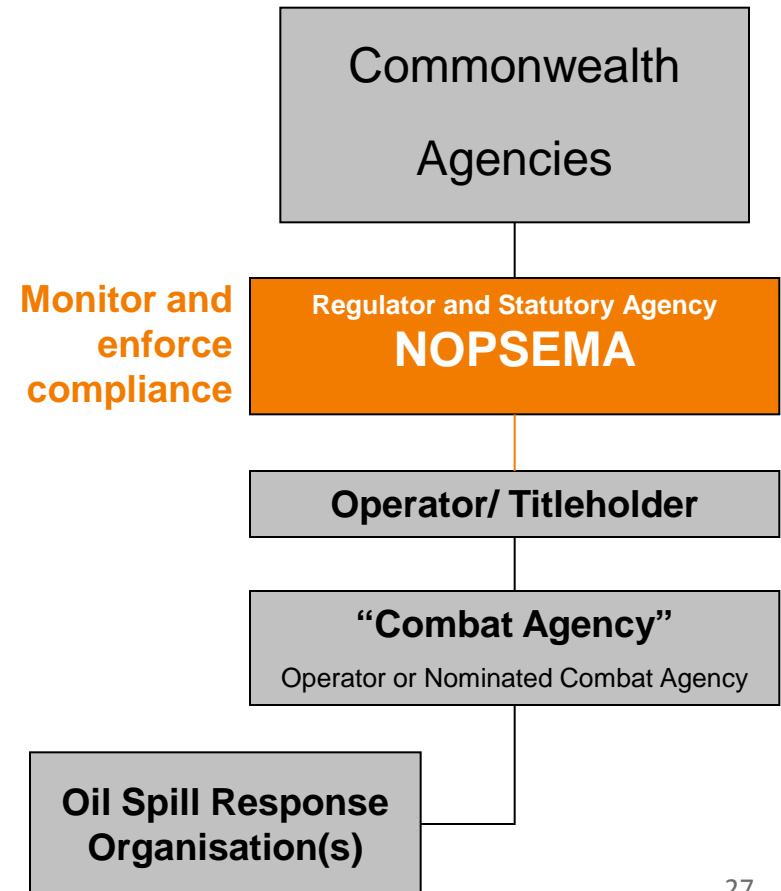


Organisational arrangements & NOPSEMA role (simplified)

Planning/Preparedness



Response



Thank you