Regulatory Activity 2016

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Floating Production and Drilling
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• Industry Data 2016
• Facility Inspection Topics & Issues
• NOPSEMA’s industry performance datasets are generated from duty holder submissions

• The datasets and NOPSEMA’s analyses are made available to all stakeholders in multiple formats

• NOPSEMA regularly publishes a larger suite of charts alongside our quarterly and annual tables on our website.
Facilities in 2016

<table>
<thead>
<tr>
<th>Facility Group</th>
<th>Industry TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platforms – manned</td>
<td>17</td>
</tr>
<tr>
<td>Platforms – not normally manned</td>
<td>17</td>
</tr>
<tr>
<td>FPSOs</td>
<td>10</td>
</tr>
<tr>
<td>MODUs</td>
<td>8</td>
</tr>
<tr>
<td>Vessels</td>
<td>12</td>
</tr>
<tr>
<td>Pipelines</td>
<td>85</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>**149 ***</td>
</tr>
</tbody>
</table>

* Based on data at end 2016.
  * Numbers fluctuate slightly as facilities enter and leave the regime e.g. mobile facilities and inactive facilities
OHS Incidents

Number

Hours (millions)


Accidents  Dangerous occurrences  Total hours worked
## 2016 Incidents

<table>
<thead>
<tr>
<th>Incident Category</th>
<th>Industry Total</th>
<th>MODU Total</th>
<th>MODU %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Incapacitation &gt;= 3 days LTI</td>
<td>4</td>
<td>2</td>
<td>50%</td>
</tr>
<tr>
<td>2 Could have caused death or serious injury</td>
<td>17</td>
<td>5</td>
<td>30%</td>
</tr>
<tr>
<td>3 Fire or explosion</td>
<td>6</td>
<td>2</td>
<td>33%</td>
</tr>
<tr>
<td>4 Damage to safety-critical equipment</td>
<td>81</td>
<td>3</td>
<td>4%</td>
</tr>
<tr>
<td>5 Other kind needing immediate investigation</td>
<td>23</td>
<td>10</td>
<td>44%</td>
</tr>
</tbody>
</table>
Dangerous occurrence rates
Facility type comparison
Accident rates
Facility type comparison
Inspection Topics and Issues
• 12 MODU Inspections in 2016
  – Mooring
  – Maintenance – Well Test Equipment
  – Contractor Management
  – Dropped Objects
• Industry approach to mooring
  – APPEA launched Mooring in Australian Tropical Waters Guidelines
  – APPEA (DISC) group sharing implementation practices
  – Continuous improvement needs to recognize ongoing issues and turn them into opportunities
Principal Findings

- Mooring failures
  - Fibre rope failure is the single largest issue in MODU pre-laid mooring systems
  - 4 fibre rope failures notified in the last 18 months
Well Control/Well Testing

- Maintenance assurance
- 5 yearly inspections of pressure containing equipment
- General maintenance of in-situ fixed pressure containing equipment
• Stacked Rigs
  – Is the equipment fit for purpose?
  – Do records in the maintenance system reflect work done and future maintenance required?
Dropped Objects

• Procedures
  – Lack of adequate work instructions
  – JSAs with ineffective capture of all the hazards
  – No pre-checks for some routine tasks
  – No equipment maintenance routines for the equipment that failed (causing a drop)
  – Procedures not properly implemented or monitored by supervisors
  – Drops designed tools not properly controlled
Training and Competency

- Lack of appropriate training and competency assurance material covering safety critical equipment and operations
- No specific training for specialist lifting equipment
- Inadequate training in conducting Drops inspections
- Stop Work Authority had not been applied
## Offshore Medic Qualifications

<table>
<thead>
<tr>
<th>Facility type</th>
<th>Paramedic</th>
<th>Nurse</th>
<th>ACLS</th>
<th>PHTL</th>
<th>STCW Medical</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODU</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>MODU</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>MODU</td>
<td>*</td>
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<tr>
<td>MODU</td>
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<td>*</td>
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<tr>
<td>FPSO</td>
<td>*</td>
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<tr>
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Well Integrity Team

• New WOMPs submitted in 2016
  – New Wells Regulations (RMAR part 5) came into effect 1 January 2016
  – 45 new WOMPS were submitted under the revised Regs, and 1 under Victorian Regs
• Well Activities 2016
  – WOMP applications were received to drill 8 exploration/appraisal wells in 2016.
  – 60 suspended wells, previously not included in the commonwealth waters well count, are now considered active.
Well Integrity Team

• WOMP Decisions

  2 refusal to accept (both were subsequently resubmitted and accepted)

  Insufficient and contradictory information provided for:
  • monitoring of wells with integrity issues
  • blowout contingency plans for operating wells
  • performance standards for well barriers
  • how the wells’ parameters are kept within design envelopes
Well Integrity Team

• Well Integrity Inspections
  – Reduced from 12 in 2015 to 6 in 2016
  – Very little drilling activity
  – 5 currently being planned for 2017
Publications

www.nopsema.gov.au

• Annual Report (May 2017)
• Regulator’ e-publication
• Safety Alerts
• Guidance and Information Papers