



DrillSafe

AUSTRALIA'S DRILLING INDUSTRY HEALTH SAFETY AND ENVIRONMENT FORUM

Regulatory Activity 2016

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NOPSEMA

nopsema.gov.au



- 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.

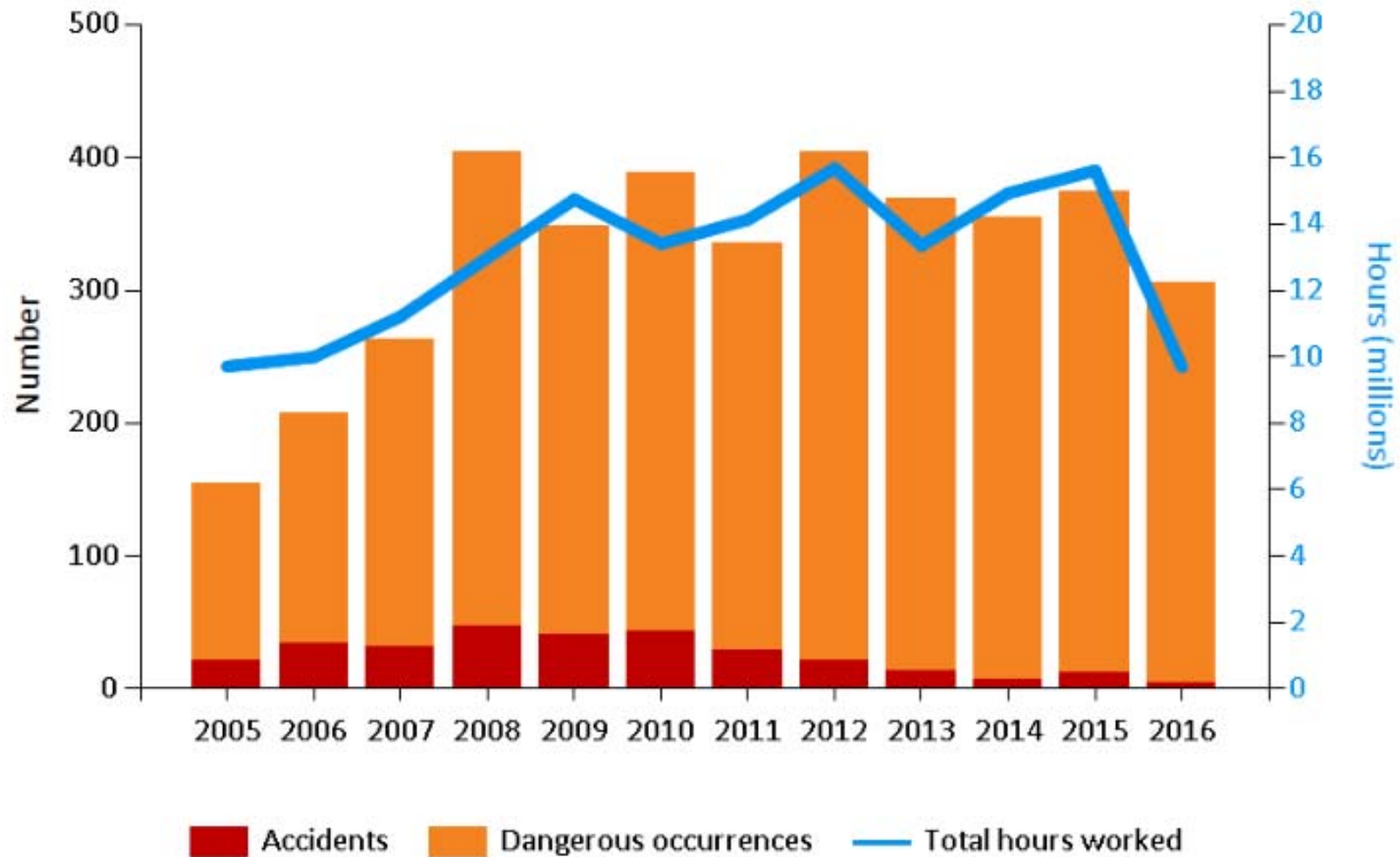


Facility Group	Industry TOTAL
Platforms – manned	17
Platforms – not normally manned	17
FPSOs	10
MODUs	8
Vessels	12
Pipelines	85
TOTAL	149 *

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



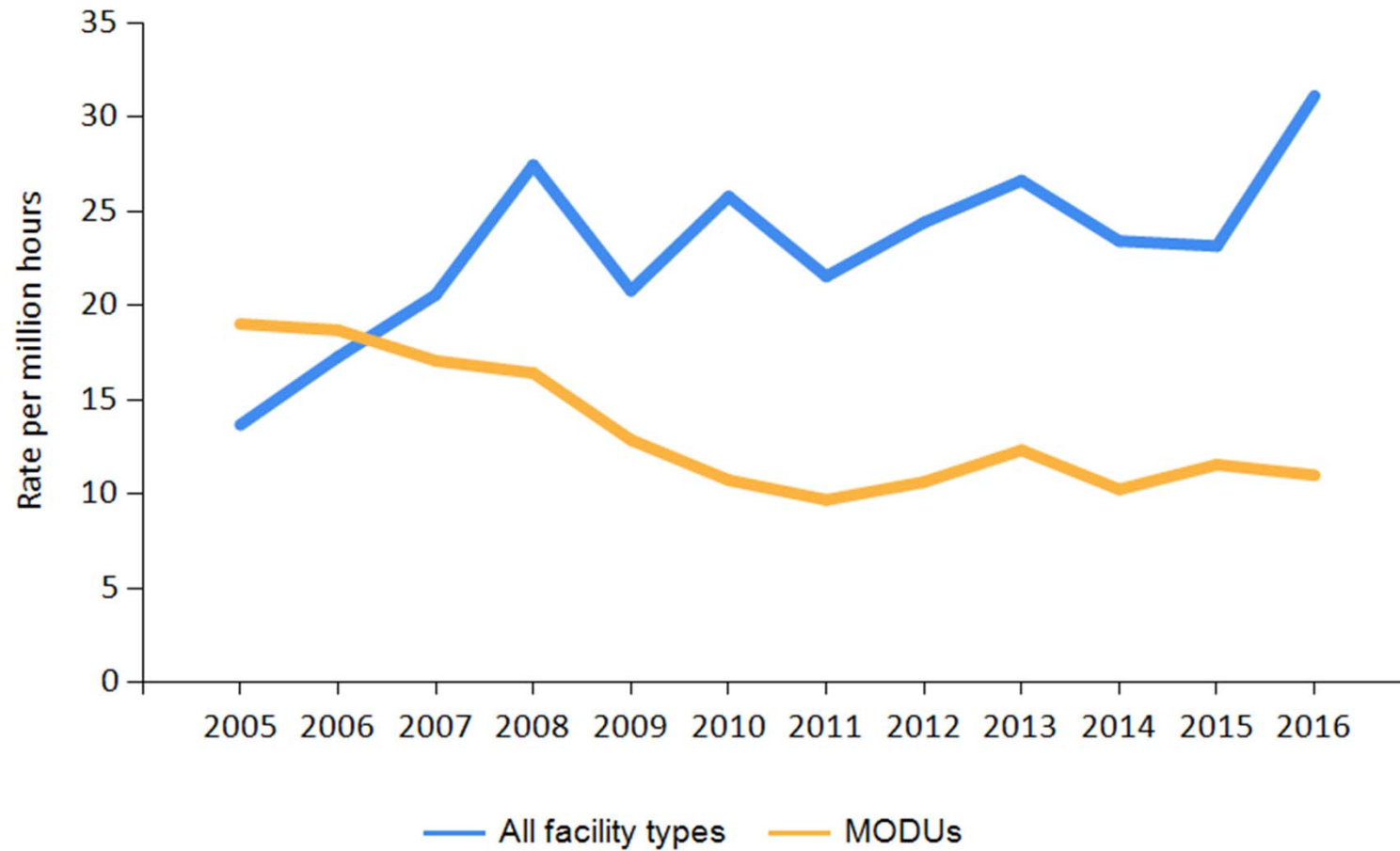


Incident Category		Industry Total	MODU Total	MODU %
1	Incapacitation >= 3 days LTI	4	2	50%
2	Could have caused death or serious injury	17	5	30%
3	Fire or explosion	6	2	33%
4	Damage to safety-critical equipment	81	3	4%
5	Other kind needing immediate investigation	23	10	44%



Dangerous occurrence rates

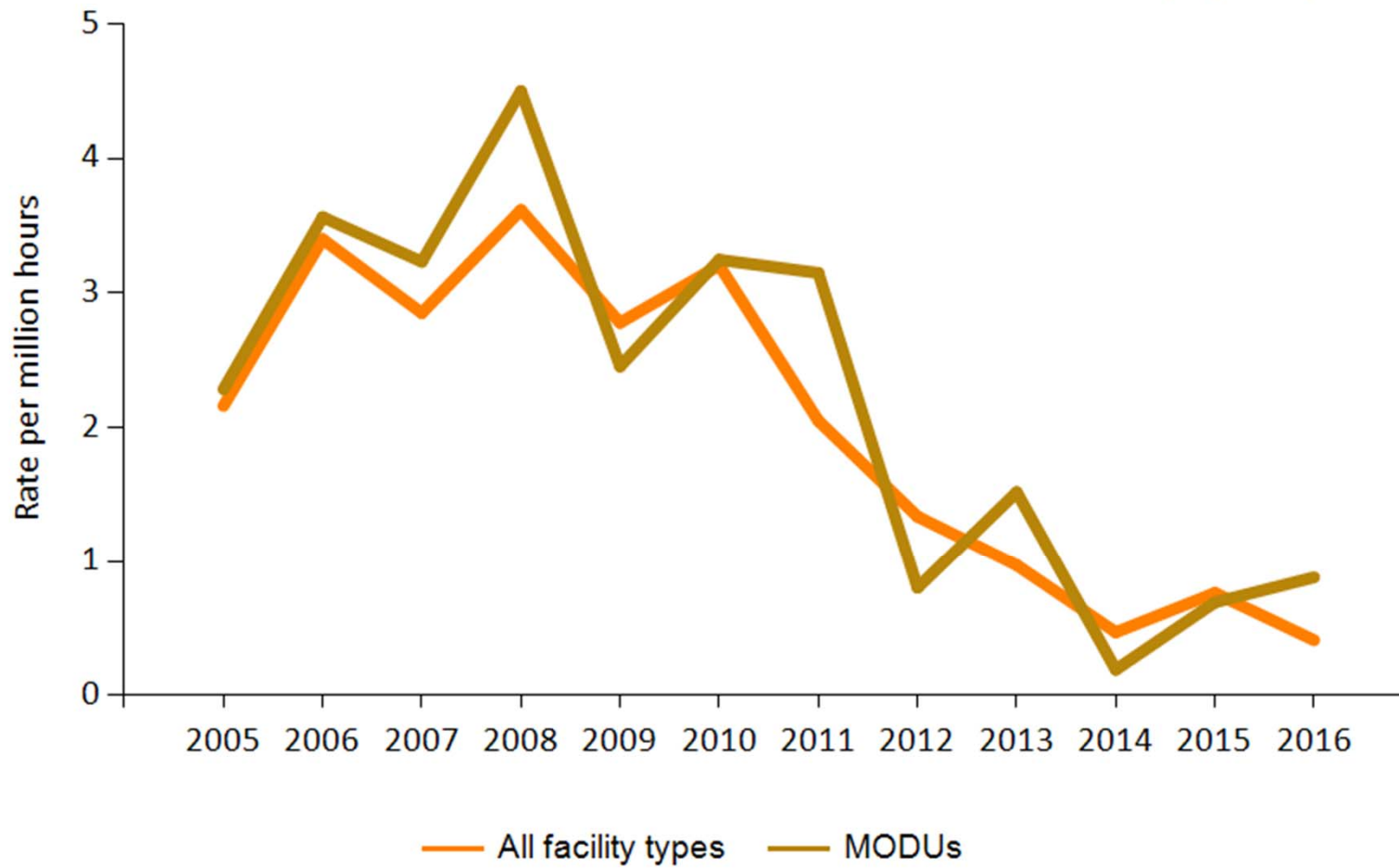
Facility type comparison





Accident rates

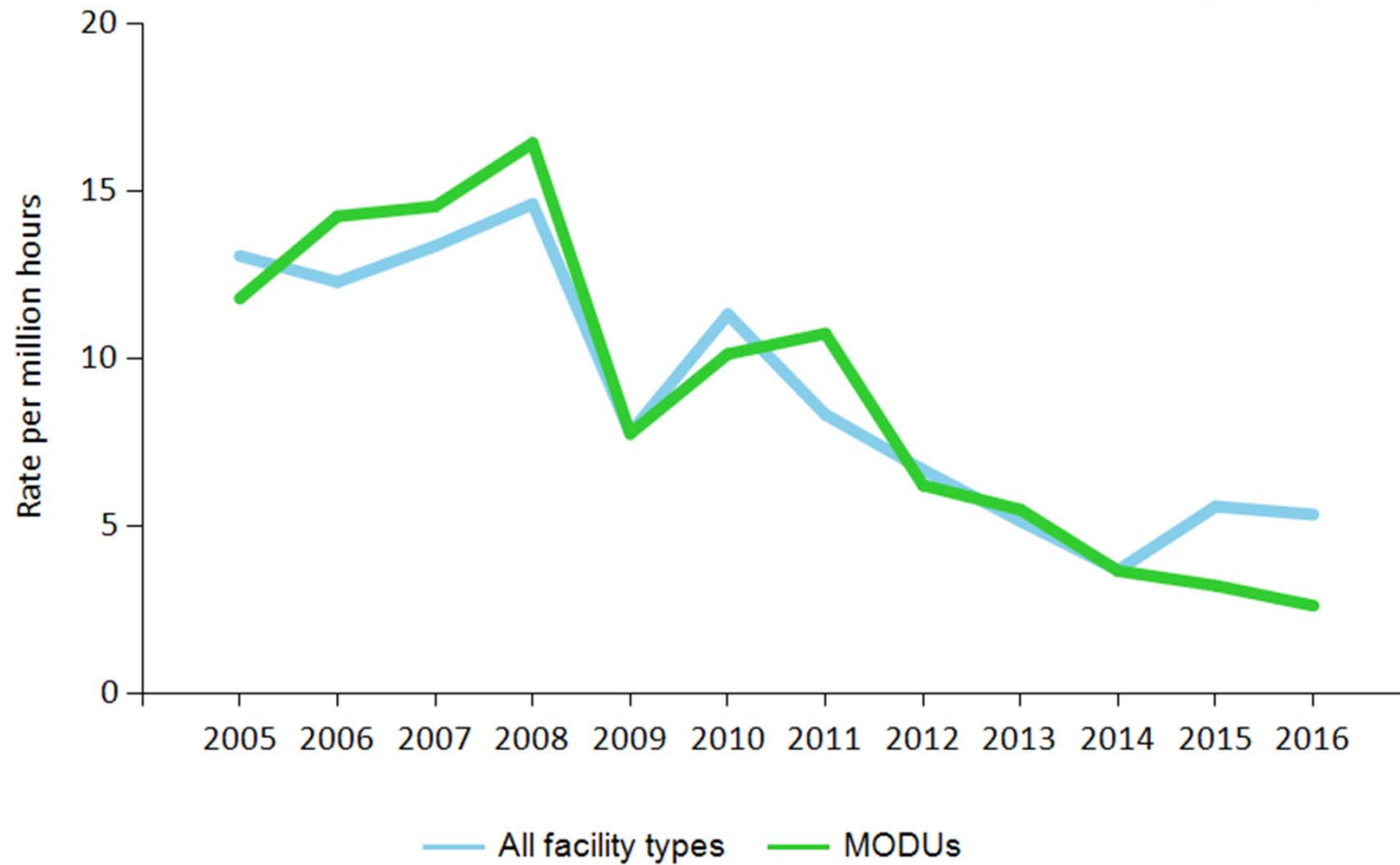
Facility type comparison





Injury rates

Facility type comparison





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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

- 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

Dropped Objects 2

- 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

Facility type	Paramedic	Nurse	ACLS	PHTL	STCW Medical
MODU	*	*	*	*	
MODU	*		*	*	
MODU	*		*	*	
MODU	*				
FPSO		*	*	*	
FPSO		*	*	*	
FPSO		*	*		
FPSO	*	*	*	*	
FPSO	*		*		
FPSO					*
FPSO					*
FPSO		*	*	*	

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 Integrity Team

- 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

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