

# 2010 APPEA Safety Conference

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## Beyond 2010 - Challenges and Opportunities for offshore safety

**Jane Cutler**  
**NOPSA CEO**  
**August 2010**



# 2002 MCMPR principles

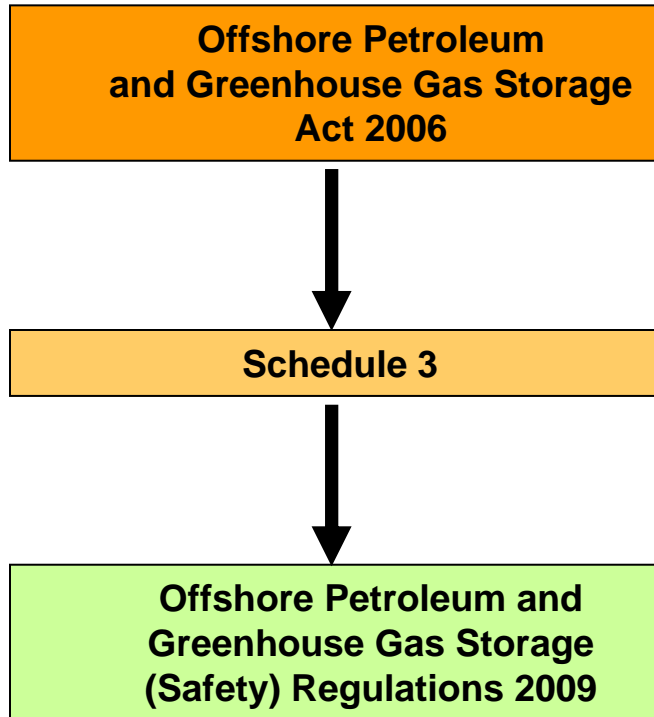
- Consistent national approach  
in both Commonwealth & State/NT waters
- Safety Case
- Legislative framework  
operators to discharge their responsibilities for safety
- Independent approach  
legislative responsibilities & dealings with industry
- Cost recovery

# NOPSA's functions



# Legislation amendments

## Australian Offshore OHS



- Schedule 3 to the Offshore Petroleum and Greenhouse Gas Storage Act (OPGGSA)
- Offshore Petroleum (Safety) Regulations 2009

Available at [www.comlaw.gov.au](http://www.comlaw.gov.au)

State waters arrangements may not be fully aligned with Commonwealth waters

## INDUSTRY

33 Operators  
170 Facilities

## 2009-10 Activities

## NOPSA

33 OHS Inspectors  
20 Support staff

180 Assessments

180 Assessments

366 Incidents

94 Inspections

38 Accidents

328 Dangerous Occurrences

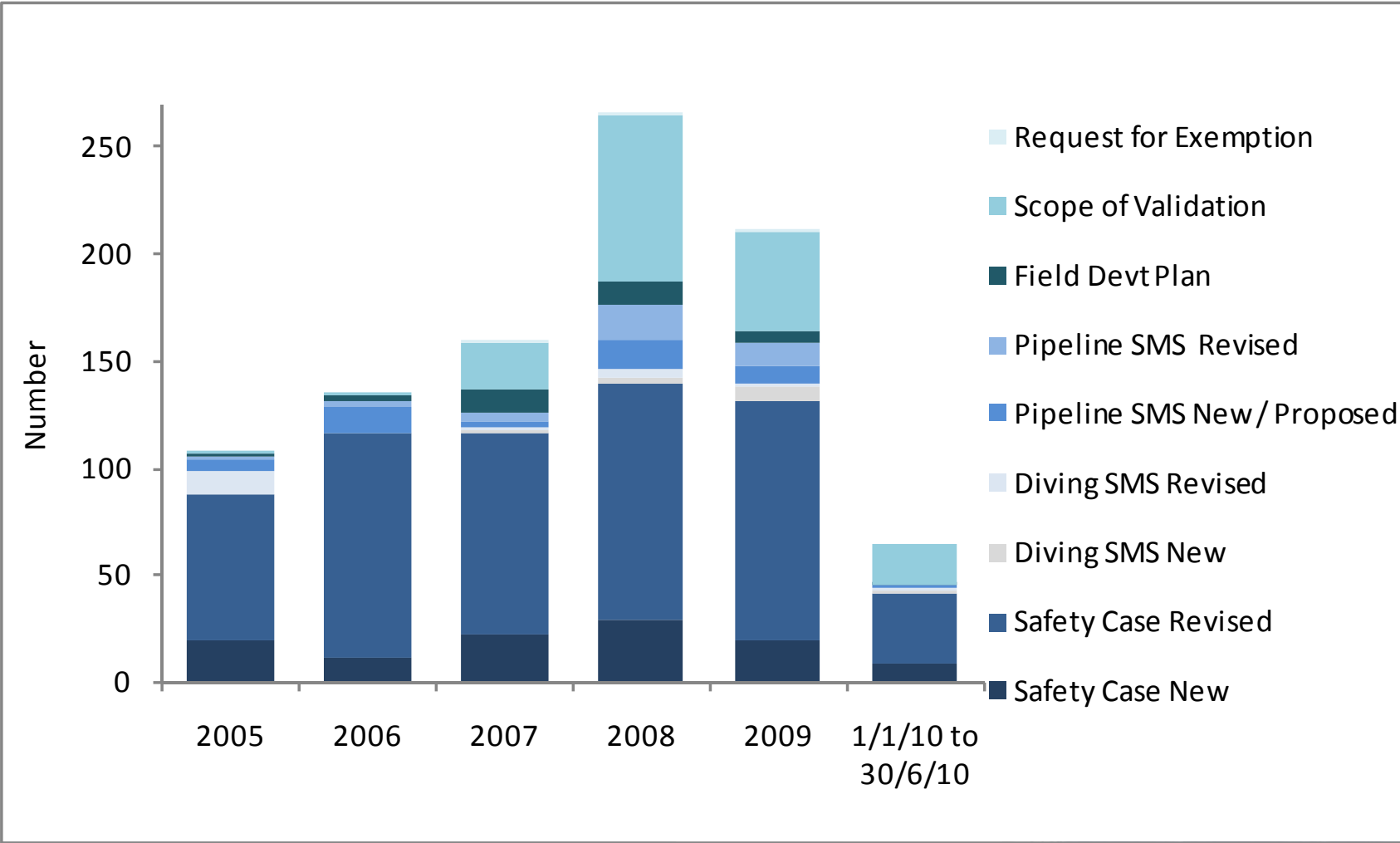
6 Major Investigations  
93 Minor Investigations  
267 Incident reviews

28 Enforcement actions

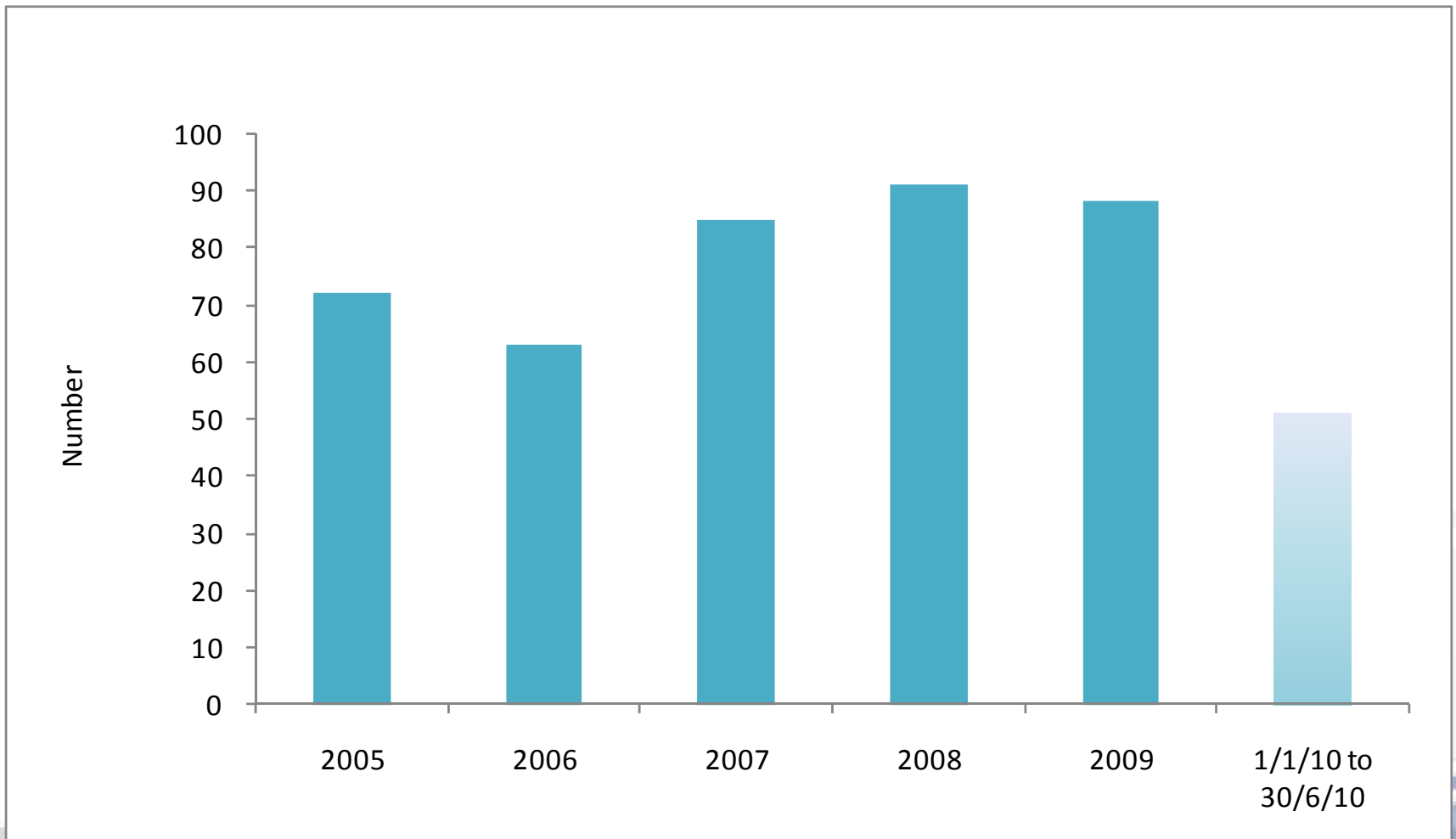
# Focus Areas

- Process Safety Culture
- Asset Integrity / Aging Facilities
- Maintenance management
- Emergency response
- Contractor management

# Assessments

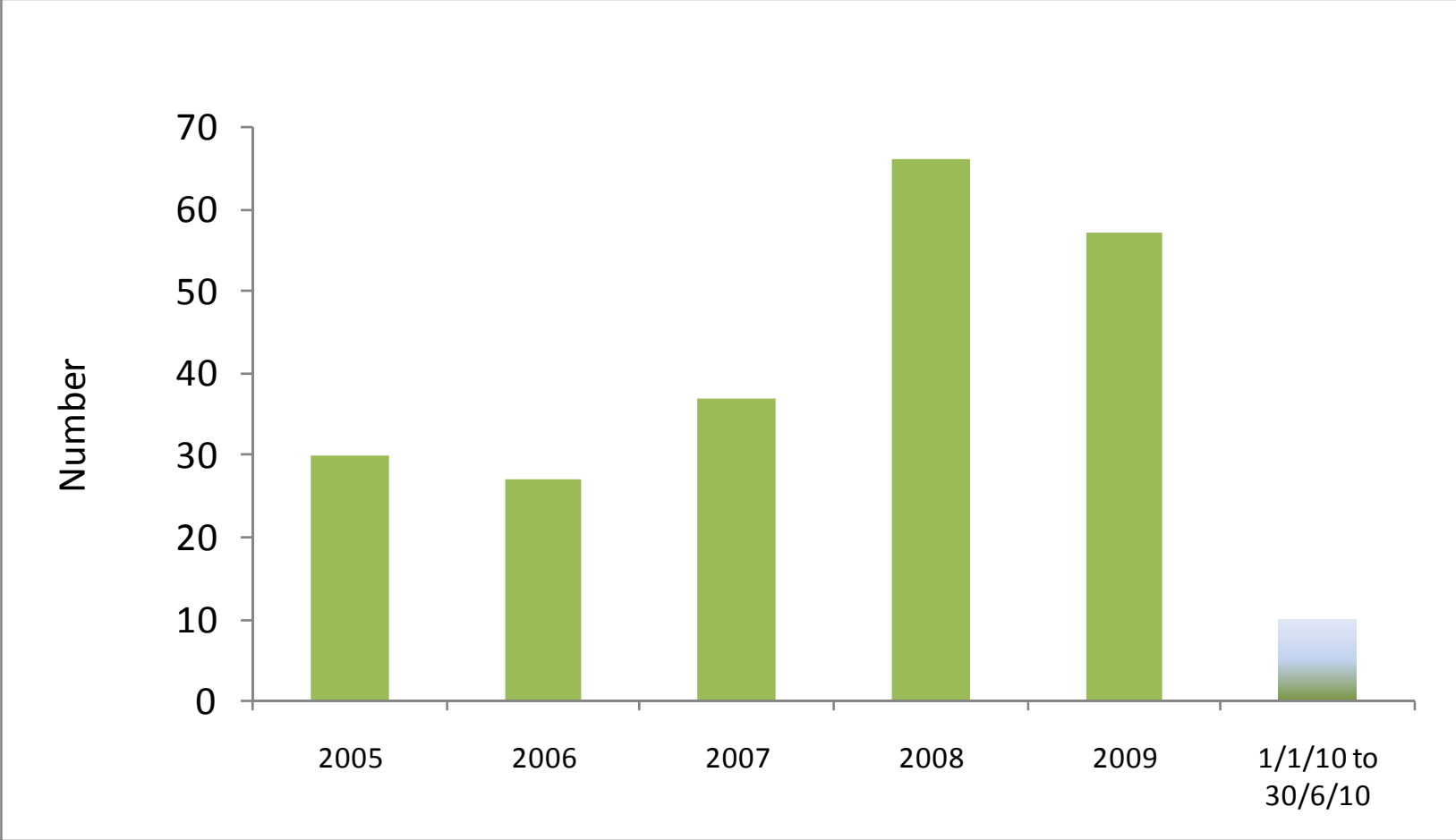


# Inspections

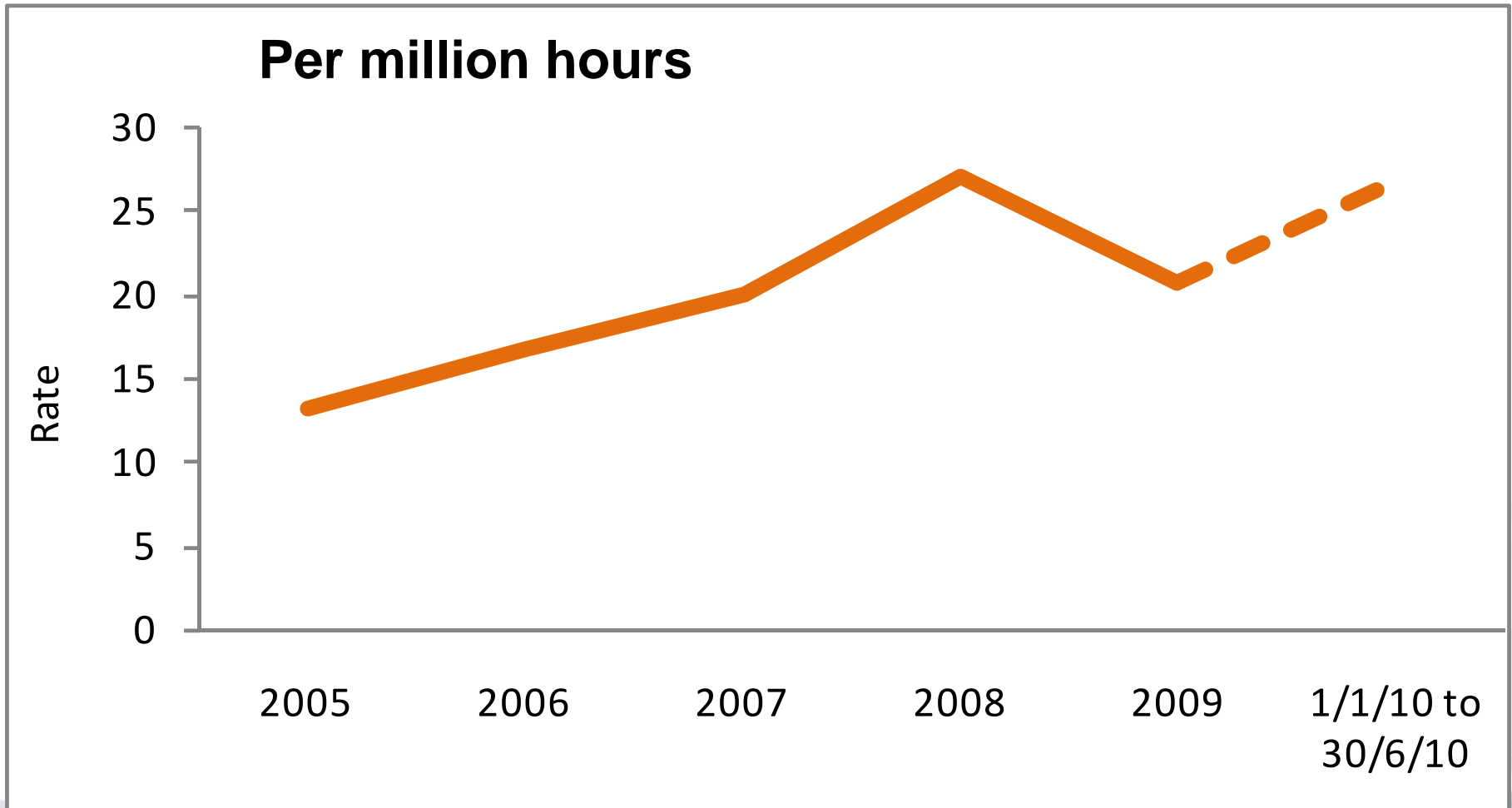




# Enforcements



# Dangerous Occurrences Rate

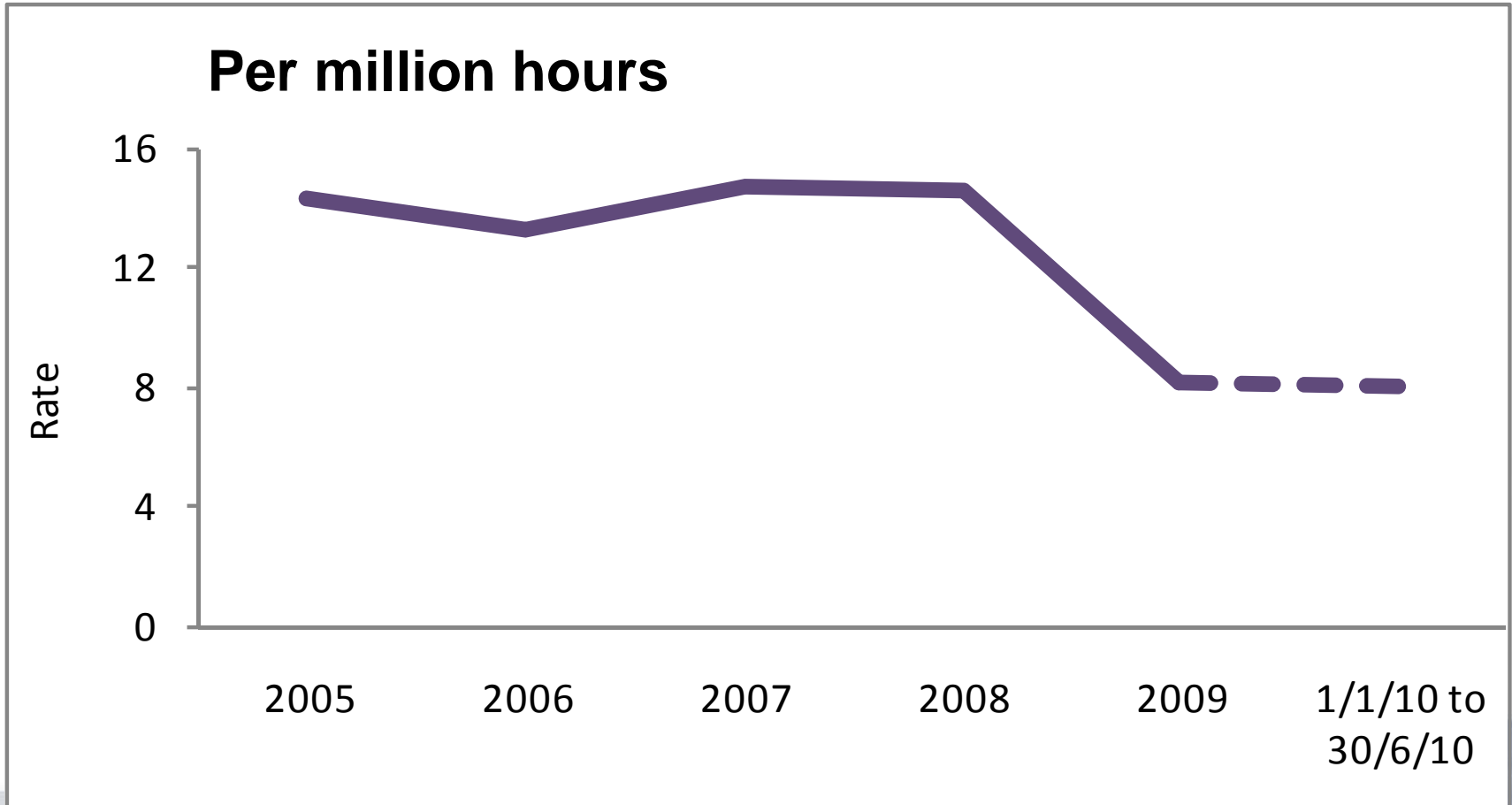


# Dangerous Occurrences

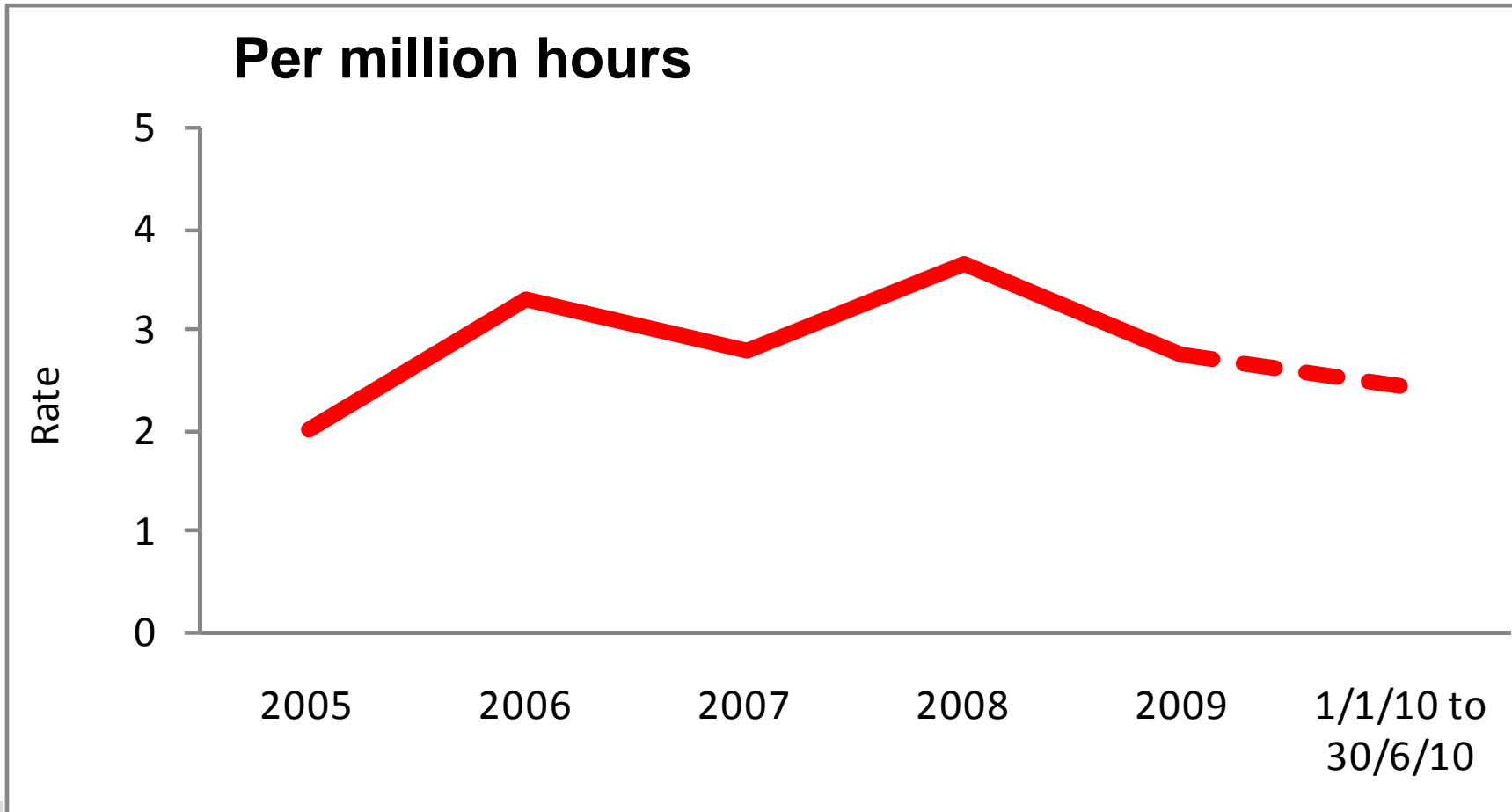
## Root Causes

2005	2006	2007	2008	2009	1/1/10 to 30/6/10
Procedures - Not Followed	Preventive Maintenance	Procedures - Not Followed	Preventive Maintenance	Procedures - Not Followed	Procedures - Not Followed
Preventive Maintenance	Mgmt System - SPAC	Preventive Maintenance	Procedures - Not Followed	Design Specs	Preventive Maintenance
Design Specs	Procedures - Not Followed	Design Specs	Training	Preventive Maintenance	Design Specs

# Injuries (TRC) Rate



# Accidents Rate

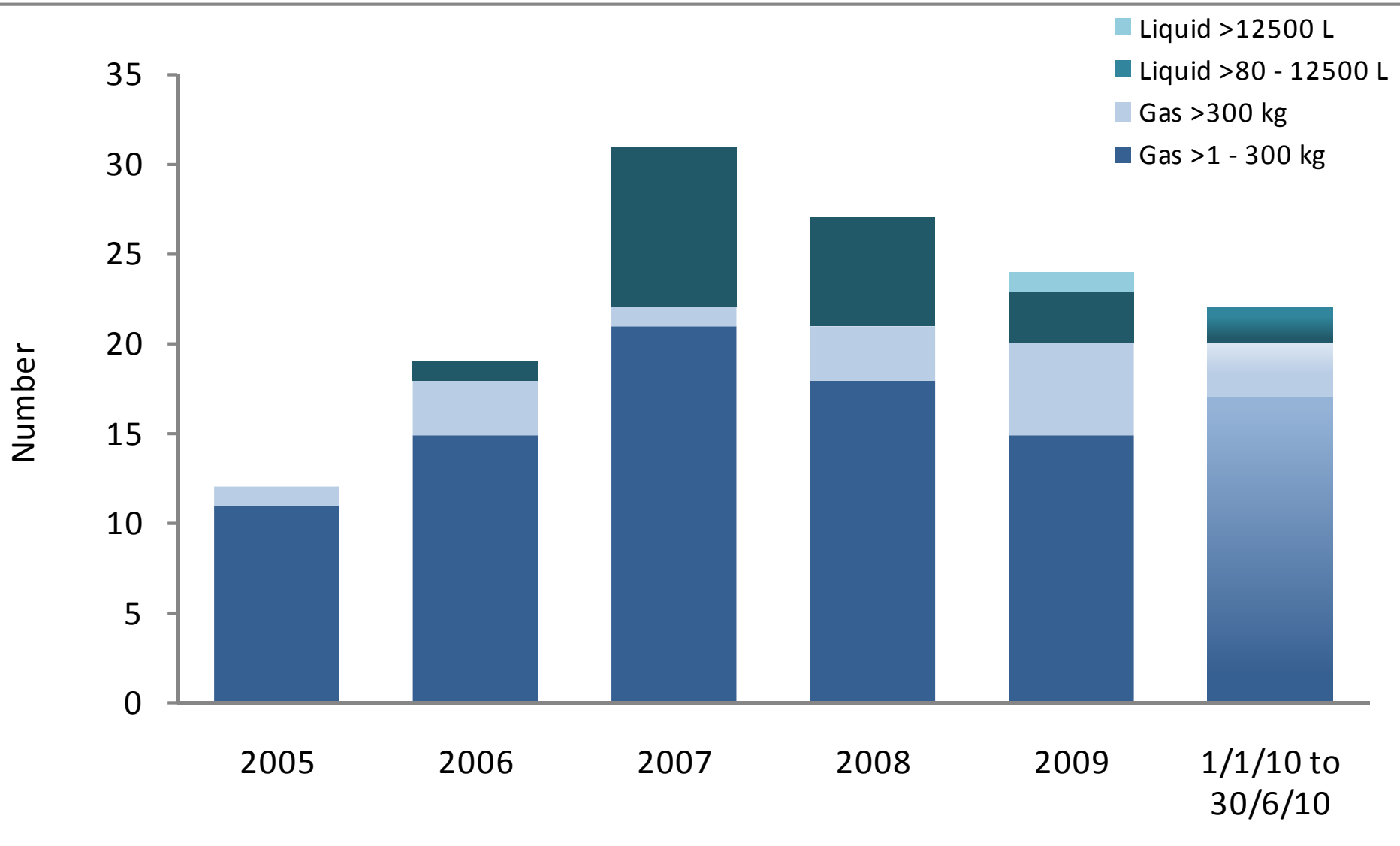


# Accidents

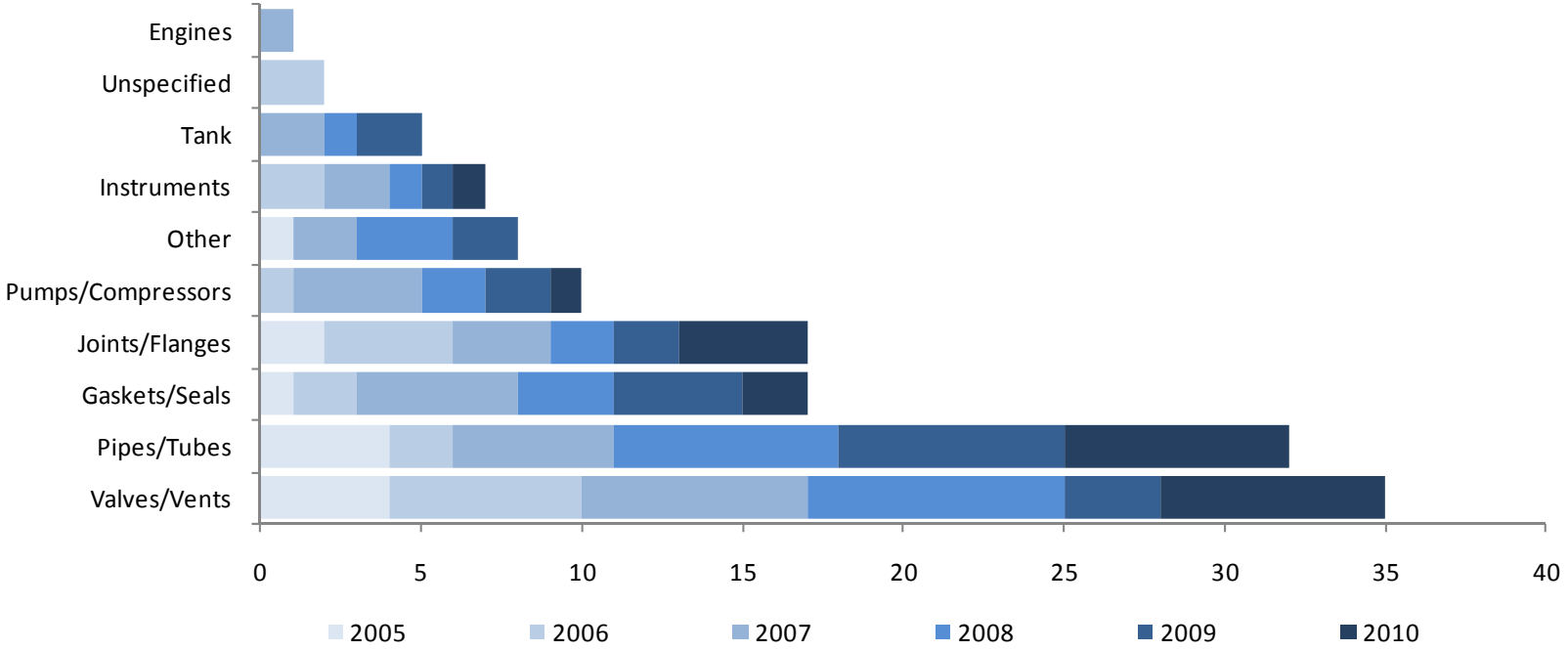
## Root Causes

2005	2006	2007	2008	2009	1/1/10 to 30/6/10
Work Direction - Preparation	Human Engineering	Procedures - Not Followed	Procedures - Not Followed	Procedures - Not Followed	Training - Understanding
Procedures - Not Followed	Training - Understanding	Training - None	Training - Understanding	Work Direction - Preparation	Procedures - Not Followed
Training - Understanding	Work Direction - Preparation	Human Engineering	Human Engineering	Human Engineering	Procedures - Wrong

# Hydrocarbon Releases



# HC Releases - Equipment





# HC Release Root Causes

**2005-2010**

Significant	Major
Design	Design
Preventive Maintenance	Preventive Maintenance
Equipment Parts / Defects	Procedures

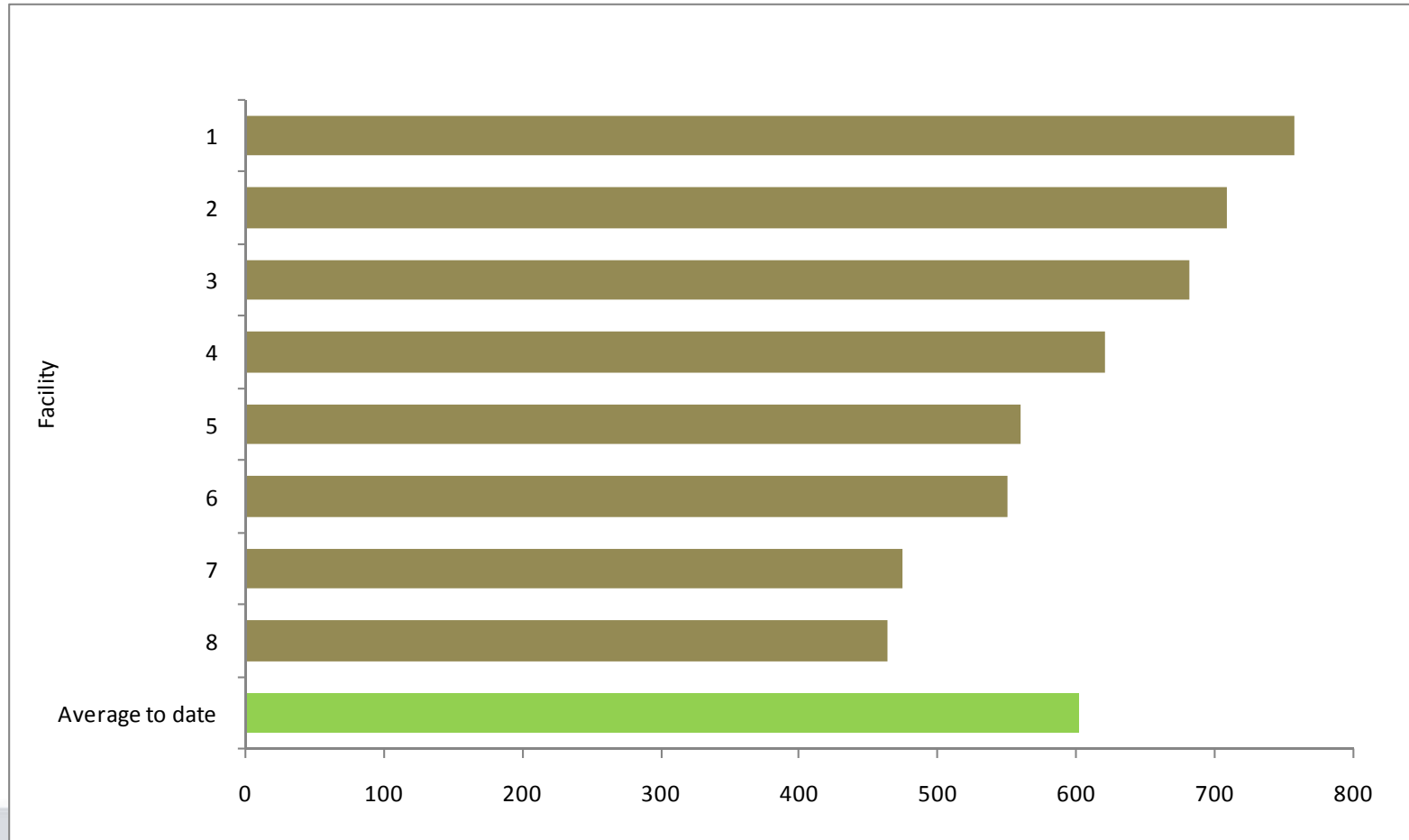
**2010**

Significant	Major
Quality Control	Preventive Maintenance
Preventive Maintenance	Procedures
Design	

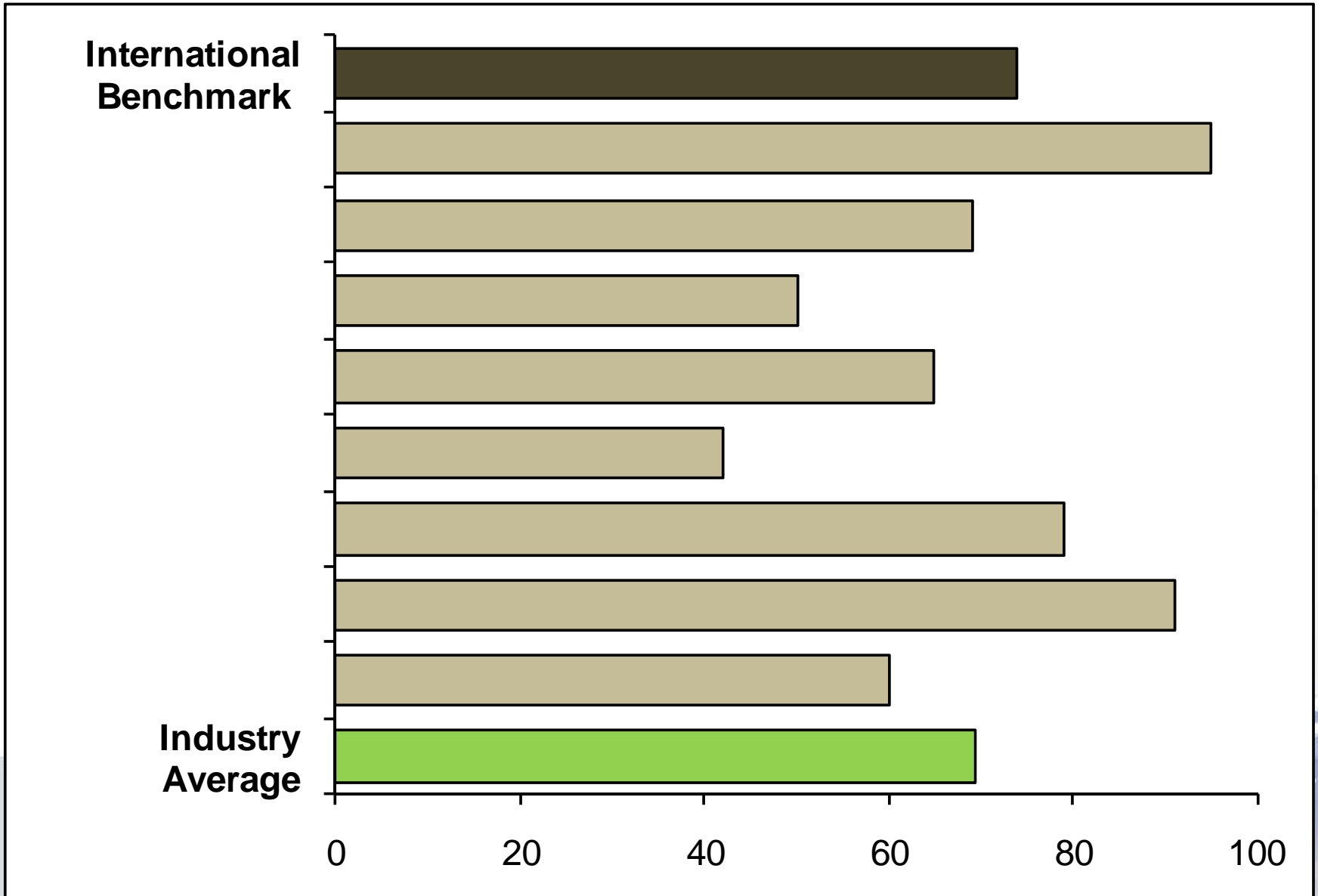
# Safety Culture

"Safety culture is how the night shift operates when it is alone without management watching".

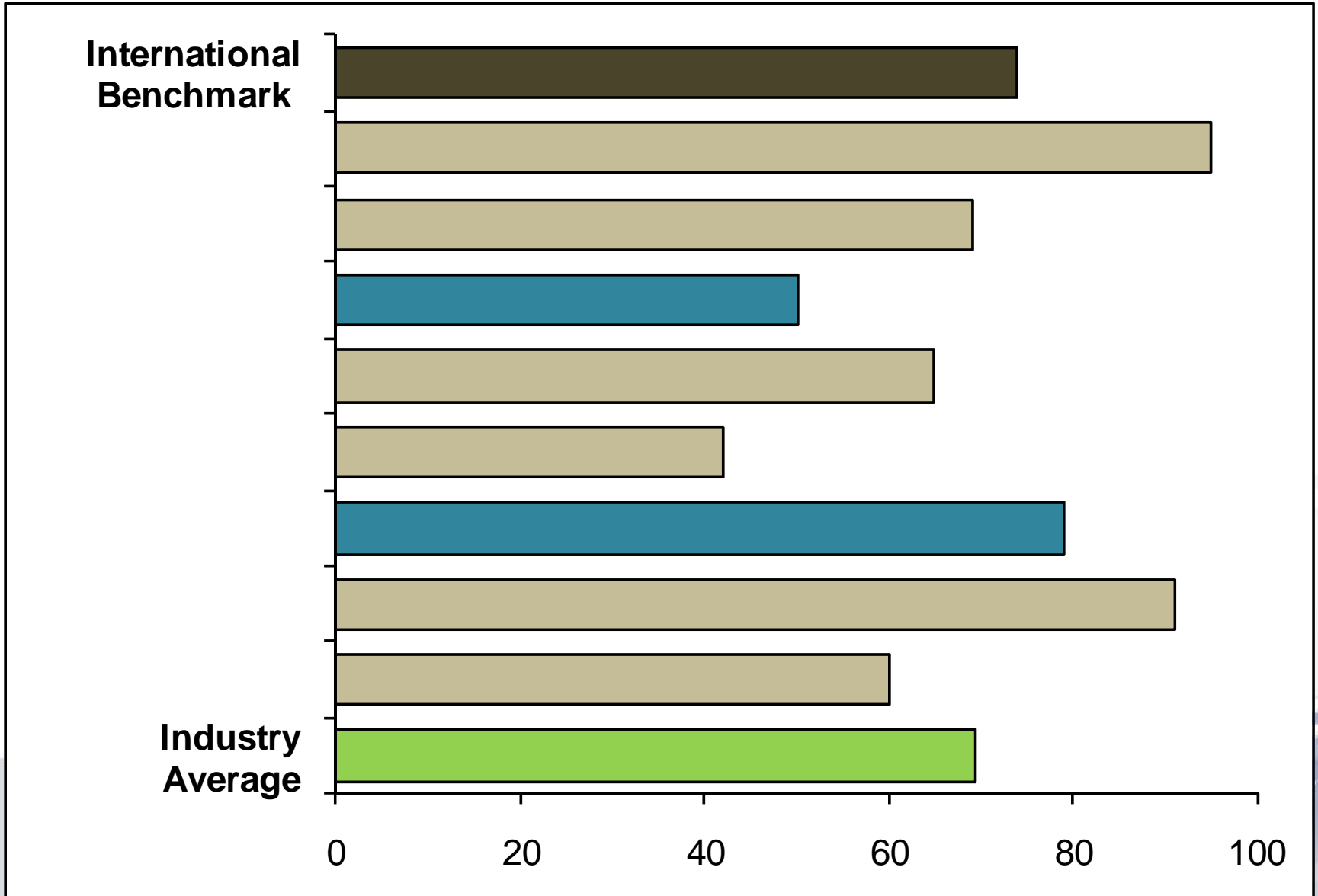
# Safety Culture Facility Score



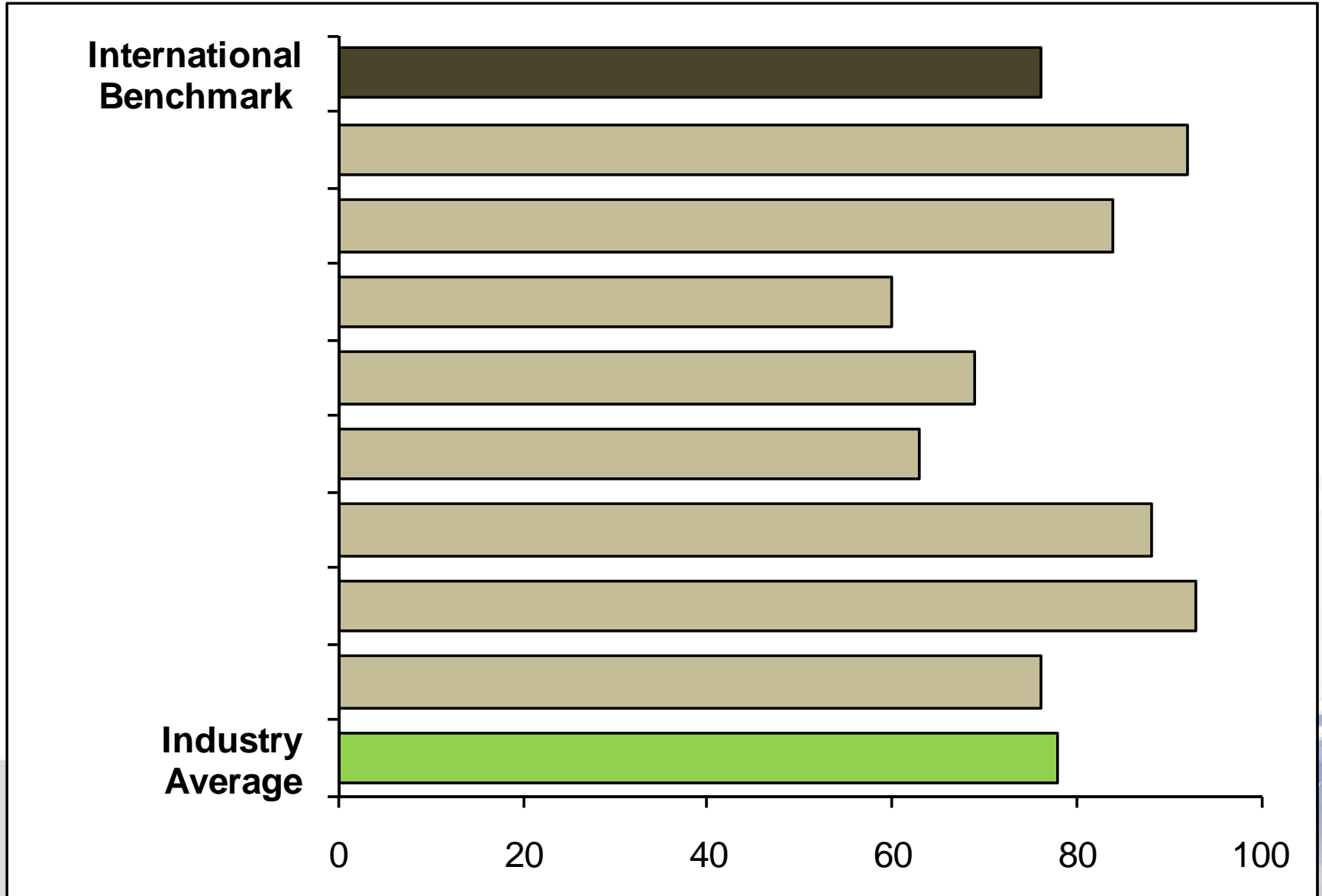
# Safety Culture - Training



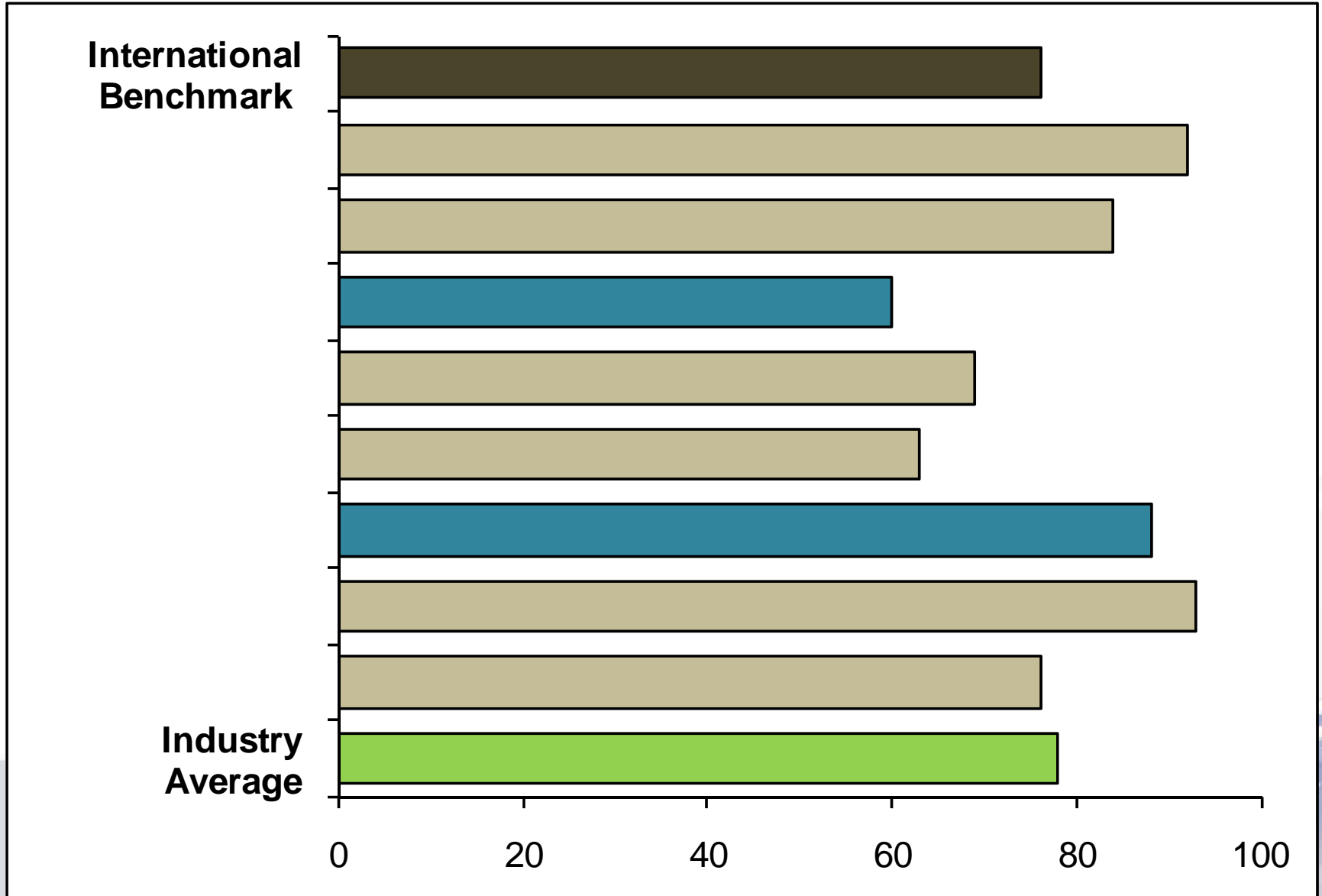
# Safety Culture - Training



# Safety Culture - Reporting



# Safety Culture - Reporting



# Safety Improvement Opportunities

▲ Maintenance ▼ Gas releases

▲ Procedures ▼ Accidents

▲ Training ▲ Safety Culture



# Montara



# Montara Gas Release Issues

- Primary cementing
- Inadequate barriers
- Management System failures
  - Risk Assessment
  - Communications
  - Records Management
  - Executive oversight
- Drilling Contractor-Leaseholder Interface

**Macondo**



22 14:51

# Potential implications

- **For industry**

Loss of community trust

Insurance & liability

Ability of smaller companies & minor partners to pay & survive

Which entity is ultimately responsible for safety ???

- **For government & regulators**

Independence of safety regulator

Regulatory capture

Performance based vs prescriptive requirements

Quality of staff / challenge / inspection



**Montara WHP Gas Release - A brief of evidence has been referred to the Commonwealth Director of Public Prosecutions (CDPP)**

