



# PREVENTION OF DROPPED OBJECTS

Shell's Experience

Olav M Skår

Well Delivery Manager

Qatar Shell



Presentation for DOIRC, Doha, 24<sup>th</sup> Nov 2010

# CONFIDENTIALITY AND DISCLAIMER STATEMENT

## Disclaimer

Royal Dutch Shell plc. (RDS) and the companies in which it directly or indirectly owns investments are separate and distinct entities. In this presentation, the collective expression 'Shell' may be used for convenience where reference is made in general to these companies. Like the other (interim) holding companies in the Shell Group, RDS is not directly involved in the operations of Shell companies. Shell companies are independent companies and are autonomously managed. Shell companies do not instruct each other, but are deemed to comply with those "Shell" policy rules that they have adopted themselves. If and to the extent this presentation contains forward-looking statements, these are based on current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in the presentation. Readers should not place undue reliance on forward-looking statements. This presentation is intended for general information purposes only. No representations or warranties, express or implied, are made by Shell concerning the applicability, suitability, accuracy or completeness of the information contained herein and Shell does not accept any responsibility whatsoever for the use of this information. Shell shall not be liable in any way for any liability, loss, cost or damage incurred as a result of the receipt or use of the information contained herein. Except to the extent otherwise indicated, this presentation presents information as of the date hereof. Finally, the delivery of this presentation shall not, under any circumstances, create any implication that there will be no change in the affairs of Shell after the date hereof, and Shell reserve the right to amend or replace this presentation at any time and undertakes no obligation to update any of the information contained in the presentation or to correct any inaccuracies that may become apparent.



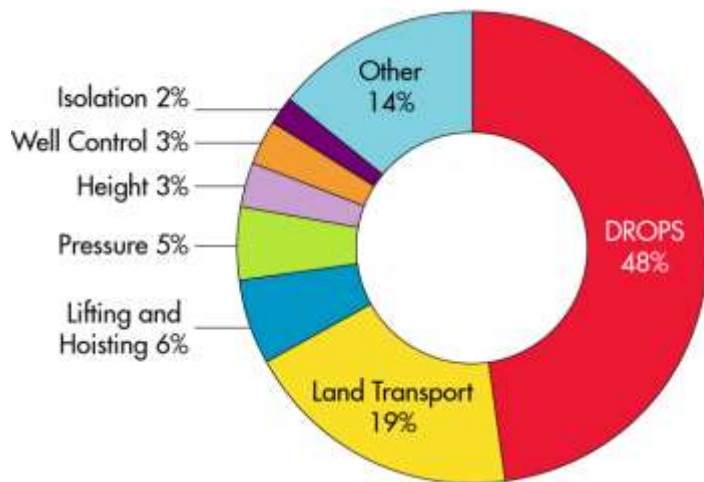
# CONTEXT

- Dropped objects have accounted for the great majority of potential and actual fatalities in Shell's well operations over the last few years.
- Within Shell's Wells community, dropped objects account for around 50% of High Potential (potentially fatal) incidents.



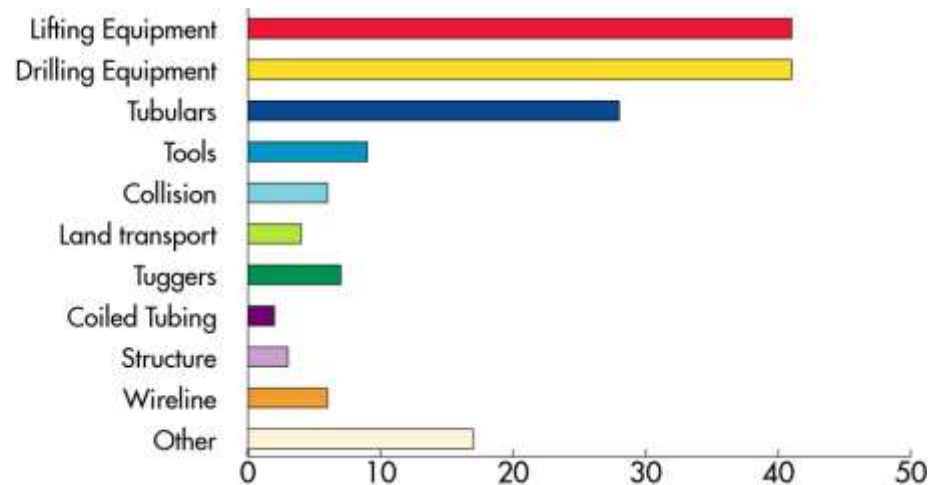
# HIGH POTENTIAL INCIDENT (HIPO) STATISTICS SHELL GLOBAL WELLS

HIPO Categories (2010 End August)



48% of HIPOs are DROPS  
140 HIPOs, 68 Drops incidents

Drops Categories (Jan 2008 to August 2010)

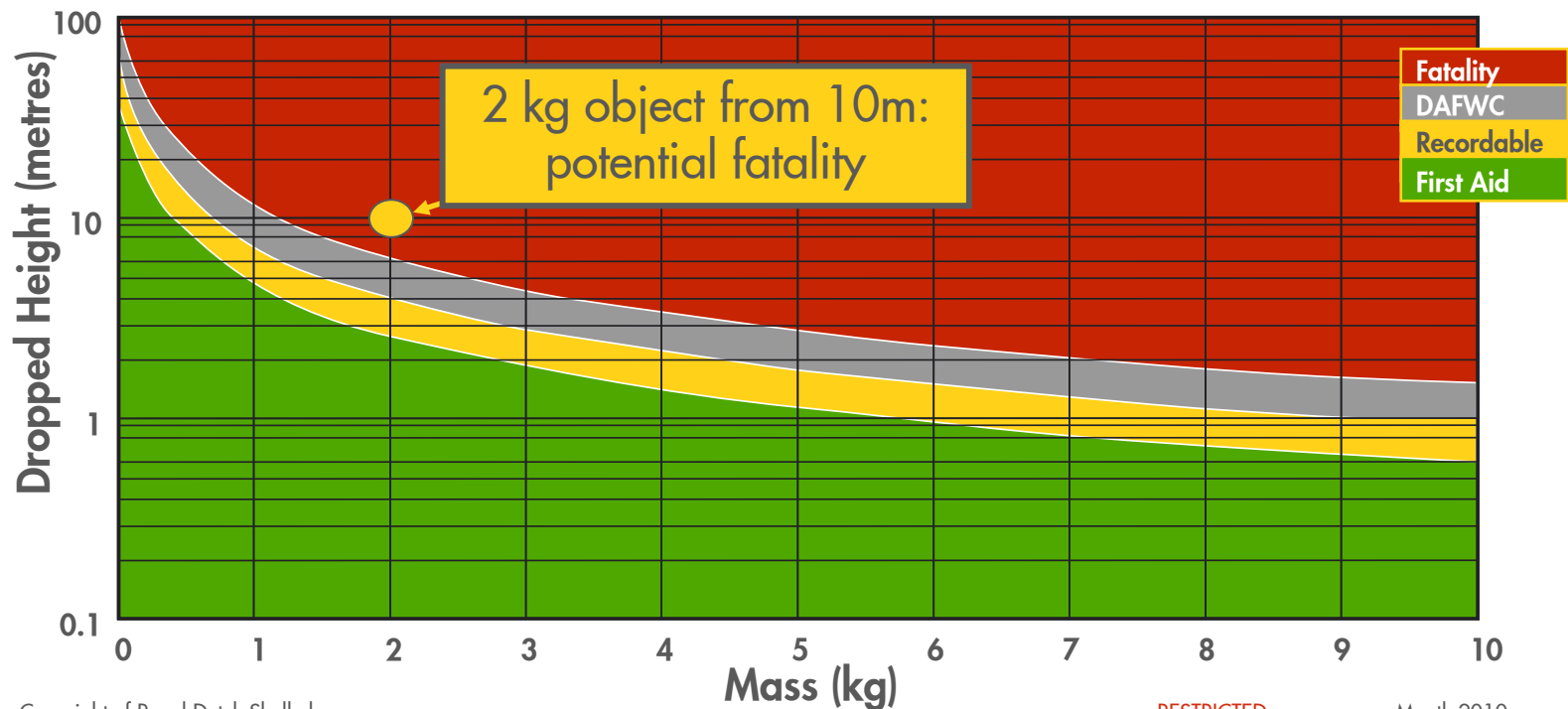


Lifting Equipment and  
Drilling Equipment are focus areas



# WELLS HIPO DEFINITION:

- An unplanned HSE event (incident or near miss) which has the potential severity to cause permanent disablement or death.
- The potential consequence of a DROPS incident can be assessed with the DROPS Calculator.
- HIPOs reviewed by senior Shell/Contractor leaders



# PREVENTION OF DROPPED OBJECTS CAMPAIGN OBJECTIVES

- The Campaign was designed to:
  - Eliminate dropped objects from our business,
  - Prevent harm to people from dropped objects,
  - Prevent damage to equipment and assets from dropped objects,
- The Campaign targets everyone who works on drilling, completions and well interventions, including staff and contractors.



# Prevention of Dropped Objects Campaign

Q3 2009	<b>Published Prevention of Dropped Objects Manual</b>	<ul style="list-style-type: none"> <li>▪ Manual written with input from contractors</li> <li>▪ ABC Guide to Dropped Object Prevention</li> <li>▪ Gap Analysis template</li> <li>▪ Established central (internal) website</li> </ul>
Q4 2009	<b>Assigned and briefed DROPS leads</b>	<ul style="list-style-type: none"> <li>▪ Regional Drops Focal Points</li> <li>▪ Onsite Drops Leads</li> <li>▪ Performed initial Gap Analysis</li> </ul>
Q1 2010 to Q3 2011	<b>Run campaign</b>	<p>Address actions from Gap Analysis</p> <ul style="list-style-type: none"> <li>✓ Tools at height</li> <li>✓ Tubular handling</li> <li>✓ No-Go Zones and Red Zones</li> </ul> <ul style="list-style-type: none"> <li>▪ Handling Lubricators and Toolstrings</li> <li>▪ Drilling Equipment</li> <li>▪ Winches and Tuggers</li> <li>▪ JSA</li> </ul>
Ongoing	<b>Build Commitment</b>	<ul style="list-style-type: none"> <li>▪ Audit and review</li> <li>▪ Best practice sharing</li> <li>▪ Refresher training</li> </ul>



# THE FOUR PRINCIPLES: BASIS FOR THE PREVENTION OF DROPPED OBJECTS MANUAL

<b>Principle 1:</b>	Contractors providing equipment and personnel on Shell well sites shall have a Dropped Object Prevention Scheme
<b>Principle 2:</b>	A systematic dropped object inspection programme shall be in place.
<b>Principle 3:</b>	Worksite Hazard management for dropped objects shall be in place.
<b>Principle 4:</b>	Audits to check for compliance with the Dropped Object Prevention Scheme shall be in place.

- Each principle has a series of mandatory requirements



# KEY STAKEHOLDERS

- Line Management – commitment from Shell and Contractors
- Regional Drops Focal Points – centre of campaign in the region
- Worksite Drops Lead – driving the campaign on site
- Front end workers – understanding and develop a desire to comply
- Suppliers – campaign materials, equipment providers  
(e.g. tethered tools)



# BUILDING COMMITMENT

- Positive changes can soon disappear if not reinforced by:
  - Management commitment
  - Reward and recognition
  - Clear Expectations e.g. in staff tasks and targets
  - Audit and review process
  - Continuous refresher training
  - Newsletter articles, posters



# ONGOING CAMPAIGN

- Audit compliance against the requirements of the Prevention of Dropped Objects Manual through:
  - Wells Shell/Contractor - Joint X-Site Inspection Visits.
  - Annual contractor facility audits.
  - Local area compliance audits.
- Train field staff in certain specific topics
  - use of animated (language free) videos
  - learning packs to stress the key points from videos
- Continue HIPO Serious Incident Reviews with Senior Leaders in Shell and Contractor organisations



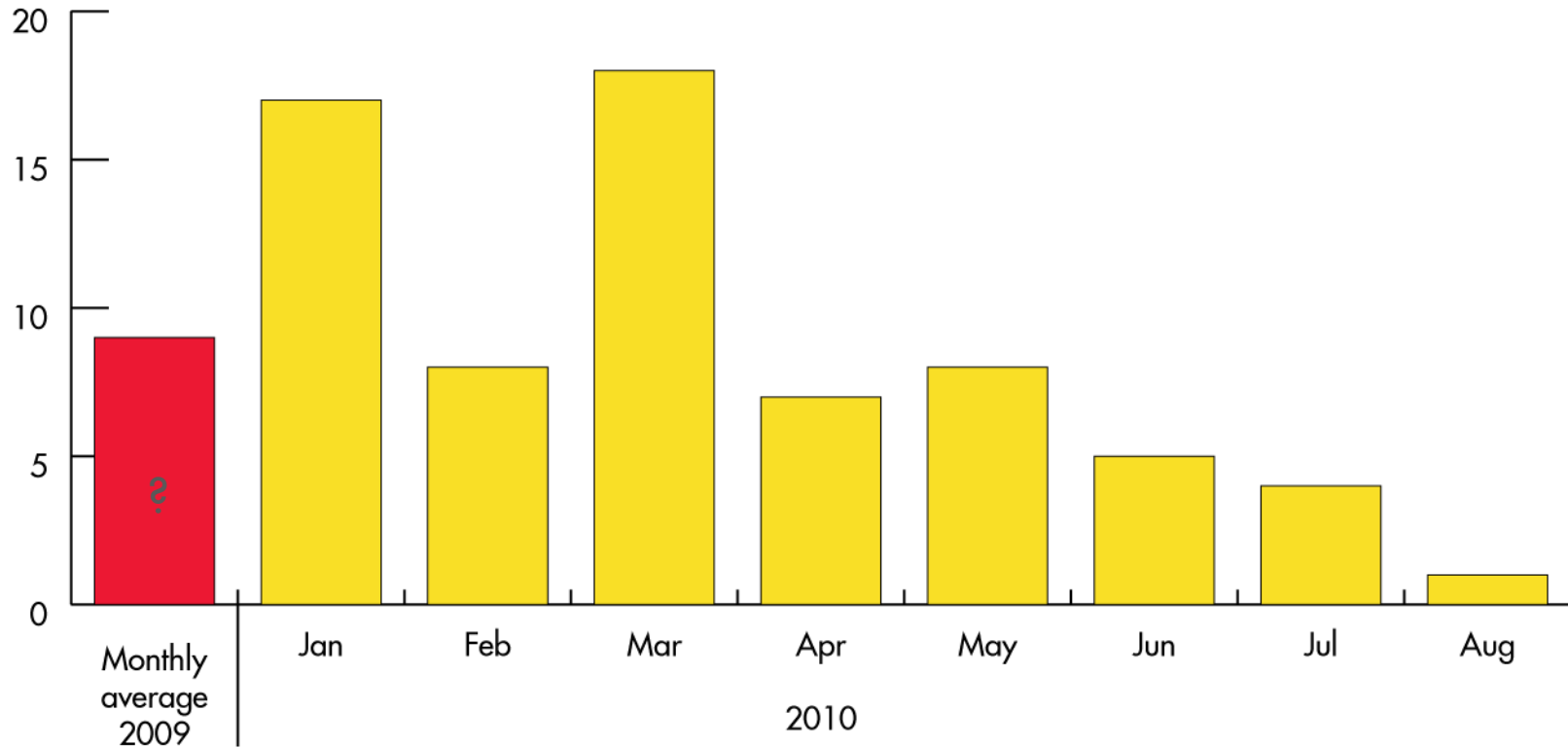
# VIDEO AND LEARNING PACK TOPICS

- Tools at height – issued March 2010
- Tubular handling – issued July 2010
- No-Go Zones and Red Zones – issue due October 2010
- Handling lubricators and tool strings
- Drilling equipment
- Winches and tuggers
- Job safety analysis



# HIGH POTENTIAL INCIDENT (HIPO) STATISTICS – RESULTS TO DATE

Dropped Object incidents in 2009 – 2010 (end August)



# What can we do in Qatar?

- Discussion/feedback?

