



Norske Shell - Dropped Object Project

DROPS – Where are we?



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Objectives

- Eliminate dropped objects by focusing on:
 - Human
 - Communication to raise awareness / understanding
 - Increase the competence and hands on training
 - Technology
 - Best practice, design and construction
 - New and improved equipment
 - Organisation
 - Continually focus and setting the standards



Responsibility

- Aker Barents
- West Navigator
- Shell Organisation
 - 3rd party companies
 - The Logistic chain

Aker Barents

- Training / People
 - DOM Group
 - Train the people / Dropped Objects awareness sessions
 - Increase the understanding
- Equipment / Technology ?
 - DOM Survey
 - Many of the actions has been there since design and construction.
 - Design / Re design of new generation rigs / New standard taking DROPS into consideration for new generation rigs?





Human, technology and organisation

- Human
 - DOM training the people
 - Dropped Objects awareness sessions
 - On site training
 - DOM hands on training

West Navigator

- DROPS GAP analyze performed together with Seadrill
- DOM Inspections
 - Results
 - Closing out actions - ongoing
- Lifting and hoisting audit
- Updated Seadrill procedure “Falling objects, physical securing of equipment and access restrictions”
- DOM Survey
 - DOM DROPS book update – ongoing



Human, technology and organisation

- DOM has performed training sessions with the people
- Dropped Objects awareness sessions
- On site training
 - DOM hands on training



DROPS Standard – what is it ?

- Prevention of Dropped Objects Manual
- What is it?
 - The manual specifies the requirements for the prevention of dropped objects and, if they do occur, how to mitigate the consequences.
 - Details the mandatory dropped object prevention requirements for drilling, completion and well intervention activities for Shell.
- Purpose
 - The purpose of this document is to set out the mandatory requirements to prevent harm to personnel and damage to equipment from dropped objects in the execution of Shell's drilling, completion and well intervention activities.
- Keywords
 - Mandatory requirements, dropped object prevention scheme, DROPS, equipment guidelines.



DROPS Campaign 2010 - Objectives

- To eliminate dropped object incidents by:
 - communicating the scale of the problem to everyone
 - training key personnel on how to avoid dropped object incidents
 - mobilising the workforce to play their part in eliminating the hazards
 - complying with the mandatory DROPS requirements on a day to day basis on all sites.



DROPS Campaign 2010

- Separate topics including:
 - tools at height
 - tubular handling
 - red zones and no-go zones
 - tool strings and lubricators
 - drilling equipment
 - job safety planning.



Learning format

- Learning delivered through:
 - Hands on training
 - Fault finding / What to look for
 - Discussed based / Engage people
 - Using the DROPS Campaign material
 - Following the DROPS Campaign plan

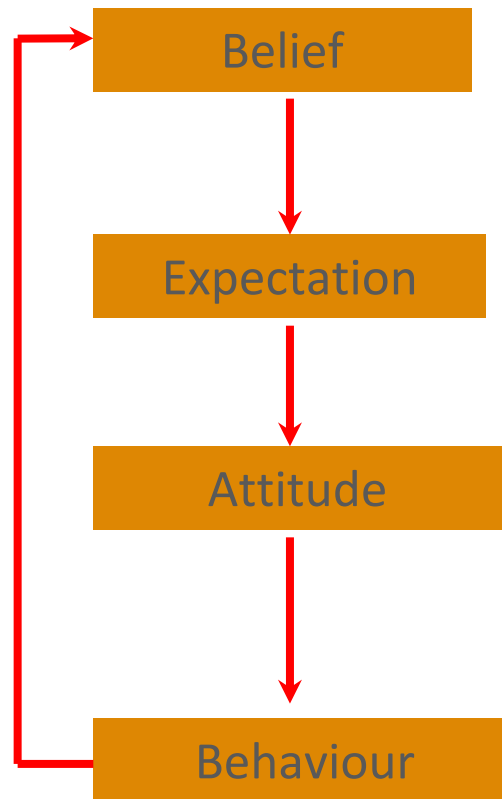
Follow up 2010

Develop communication plan and roll out DROPS standard to address all teams													
Principle: See one - do one - teach one													
Seadrill involvement													
DOM involvement													
3party involvement													
Campaigns ref Gordon Graham		Tools at Heights			Tubular Handling			Red Zones and No Go Zones			Tool Strings and Lubricators		Covered 2011: Drilling equipment. Job safety planning.
													2011
	February	March	April	May	June	July	August	September	October	November	December	January	
Train the trainers and Mats - Onshore		X											
Follow up training by the dedicated DROPS person offshore and Mats		X	X	X	X	X	X						
Follow up training Offshore by the trainers from DROPS team.					X			X				X	
Follow up Offshore from management/HSE during rig visits.		X	X	X	X	X	X	X	X	X	X	X	
DOM Group involvement.													
The different Crew will do inspections - DOM will come and to the exam													
Further training for newcomers. Done by the crew themselves.								X	X	X	X	X	

Additional work

- Shell Dropped Object manual introduction to 3rd party companies
 - Presented and rolled out in Baker, Halliburton, Schlumberger ++.
 - Positive feedback so far. GAP analysis between Shell manual regarding of documented compliance.
 - Followed up to establish the progress and the implementation of DROPS and how this is covered in their 2010 HSE plan.
- Logistic chain
 - tubular handling
 - drilling equipment

Change of Industry “Beliefs”



Drill stands always fall in the derrick!

When the drill stands fall our expectation and belief are confirmed

An attitude of “acceptance” ensures that nothing changes

Our behaviour is that we do “Nothing “because we belief, See top of page.....?”

