

Lower Level Dropped Objects

Slide 1:

Opportunity to share findings/ learnings regarding Lower Level Dropped Object Potential

Not to detract in any way from the higher level Drops which as we know can have greater consequence but hopefully just to get the mind set thinking about the potential for dropped objects for any task.

Slide 2:

Within Transocean we have various Lifesaving Rules and Tools: which are non-negotiable and MUST be applied to our work

It will be no surprise that one of our key rules is in relation to Dropped Object Prevention

Go through and discuss each line item in turn

As I said, fairly standard set of rules, but if applied every time very effective

Slide 3:

- On review of our 2015 incidents in relation to Dropped Objects we had 25 incidents in the UK which involved a Dropped Object of one kind or another.
- ZERO Static Dropped Objects – think this is fairly representative of industry these days, we have in place *robust maintenance schedules, third party independent drops inspections*, we have all been through *various campaigns to remove redundant equipment* from our derricks and at height areas.
- Consider what 5mts looks like, is this a height that automatically springs to mind when we think about dropped objects or are we more inclined to think about something much higher? Why is that? – greater consequences perhaps, and rightly so. We have lots of controls in place for the higher level drops potential.

Ask for examples:

Tools at height, collision checklists for equipment, Secondary retention on equipment, use of drops netting.

- We had four injuries in 2015 as a result of dropped objects - all from under 2mtrs.

So do we always apply the same thought process to lower level type activities? Try to visualize 2 metres, would that be in your mind-set?

Slide 4:

Is 2 metres a height that automatically springs to mind when we think about dropped objects or are we more inclined to think about something much higher?

All four injuries last year as a result of dropped objects –all from under 2mtrs.

Food for thought but everyone a predictable surprise.....every one avoidable!

Slide 5:

Low level work platform/ scaffold set up so that interior panels inside a cement unit which had been identified as corroded could be changed out – positive thing to do to prevent them becoming a dropped object.

Go through slide:

Comments?

Even without all the information and pictures it is easy to see how a simple task can go wrong resulting in a dropped object.

Factors involved - Task Planning (ineffective hazard identification in relation to Drops),

Housekeeping, Being in the Line of Fire,

Restricted Access Zones, If you don't have to be there, don't be there.

Do you think the Dropped Object Lifesaving Rule was applied in this case? **“Assess every task for potential dropped”**

Avoidable?

Slide 6:

Go through slide contents

Comments?

Easy to see how a relatively simple task can go wrong resulting in a dropped object?

Factors involved - Task Planning (ineffective hazard identification), Housekeeping, Being in the Line of Fire, Assessment of task in relation to potential for dropped objects

Slide 7:

Comments?

Secondary retention?

Reduce amount of equipment required, use a different type of jack without the need for a spacer, means of securing the spacer?

Restricted access zones in place below and around the scaffold area but had not identified the exposure to a dropped object from being in such close proximity or from being in the Line of Fire.

Do you think the Dropped Object Lifesaving Rule was applied in this case?

Hazard identification was around can I fall from scaffold, not what can fall to the scaffold.

Avoidable?

Slide 8:

Comments?

Were the tripods placed far enough away from the walkway?

Do you think the potential for a dropped roller had been considered? Substitution test would you have considered this?

Where do you think the safest place for the roller to be in relation to the potential for dropped objects would have been on completion of the task?

Hazard identification (at height)?

Avoidable?

Slide 9:

While operating a tugger during Moonpool operations a 2mtr long guide roller weighing 45kg fell 1.5mtrs and hit the tugger operator on the hand.

New HVAC ventilation had been fitted in the moonpool, wire was now touching the ventilation, wire re-routed to an existing roller.

Comments?

Bear trap just waiting to hurt someone!

Failure to effectively Management the Change during installation of new equipment and modification to existing equipment when things did not go to plan

Failure to capture new or modified equipment in the maintenance system (work completed by a project team and modifications not highlighted to the rig crew)

Do you think the people who made the modifications were thinking about the Dropped Object Prevention Life Saving Rule?

End of a shipyard project, rush to get out, sound familiar?

Avoidable?

Slide 10:

A review of industry data revealed that out of around 1000 incidents between 2010 and 2016 over half were as a result of an under 5mtr dropped object, around a third were less than a metre.

The majority attributed to inadequate securing

So is there mileage in some focus on lower level potential dropped objects, absolutely there is!

Slide 11:

We know that effective hazard identification in most cases can and will prevent incidentsyes?.....

How could we get hazards associated with lower level equipment (Potential Dropped Objects) to be in the mind-set of our people.

We know that there is low hanging fruit that can be addressed relatively easily, there are potential lower level dropped objects everywhere, most of which admittedly are conditional.

So we asked our people to go look for the low hanging fruit. Things we asked them to consider:
Slides

Slide 12:

Here are **some of the results that we got back**. (apologies for picture quality, these came straight from the worksite)

Potential predictable surprises!

Slide 13 through 32:

Potential predictable surprises!

Slide 33:

If you really looked, are you seeing anything different from your worksites?

Would YOU have considered the potential for drops looking at these conditions, or do we just grow to accept them? BROKEN WINDOWS – before long you stop to notice and things deteriorate.

We feel by getting our people to go through this process that we have made inroads to changing the mind-set to the potential of Lower Level Dropped Objects and picking off some of the Lower Hanging Fruit.

If you take anything away from this and you see any low level bear traps in your worksites, own the results, do something about it!