

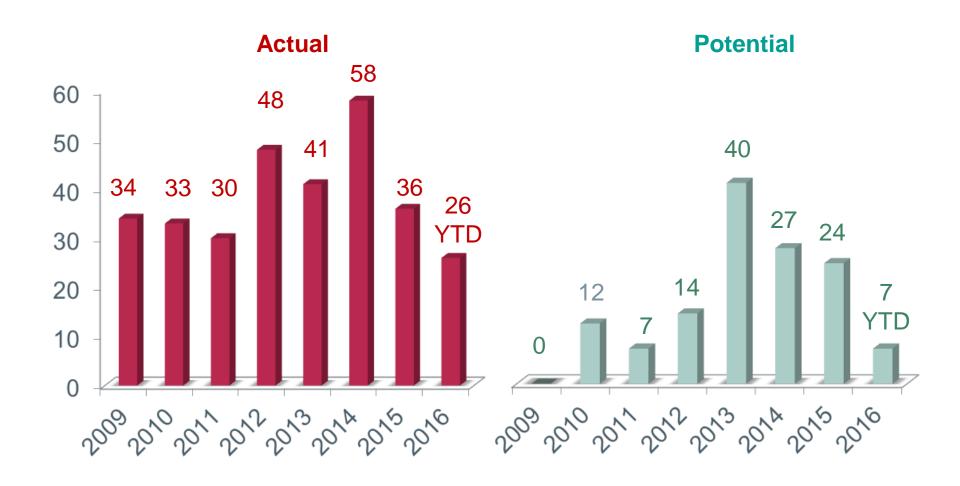
Prevention of Dropped Objects Crane Theme October 2016

By Lenny West



Overview of All Sites Dropped Objects Historical Incident Stats 2009 to 15th Sept 2016

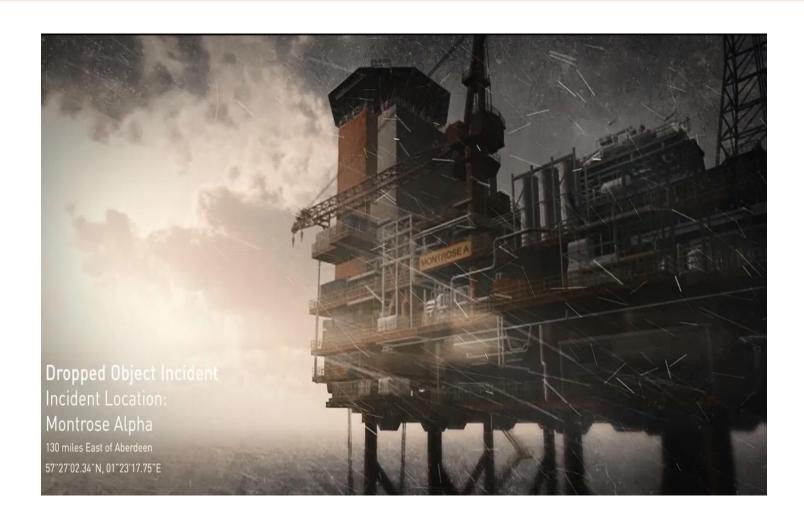




HPI Dropped Object Incident

Animation













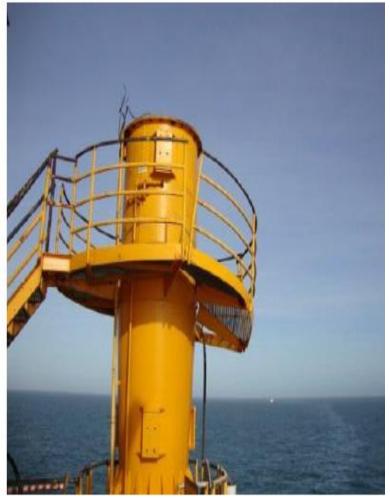










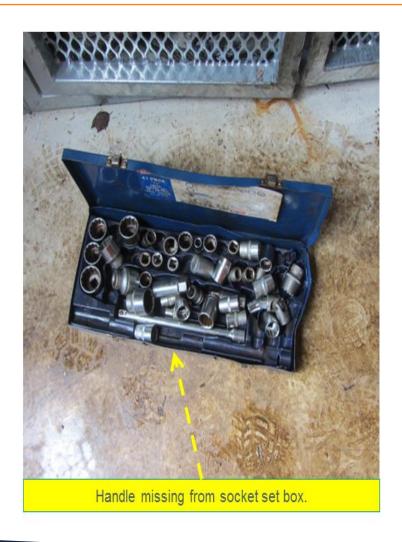






Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Socket Box)





Socket set dimensions
45cm long
19cm deep
5cm high

Weight 6kg (box & contents)

The box opened on first impact, spilling the contents.

The box itself was the heaviest item at 1.6kg.

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Socket Box)

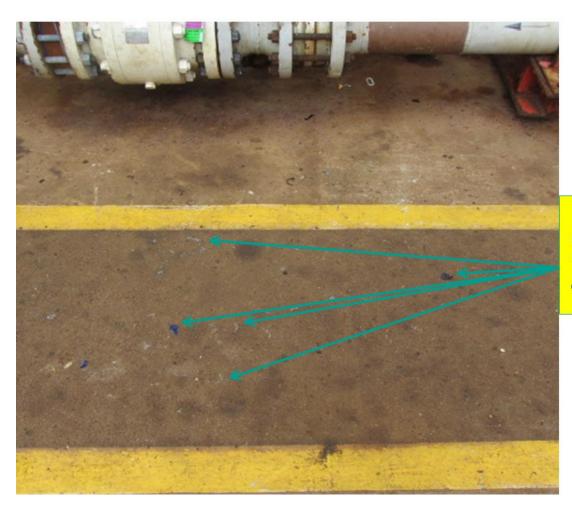




Final impact and resting place of socket set on the cellar deck walkway 7.5mtrs below where the toolbox impacted on its descent

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Socket Box)





Several half socket shaped impact marks and pieces of the blue plastic inner tray on the walkway of the cellar deck

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Floodlight)



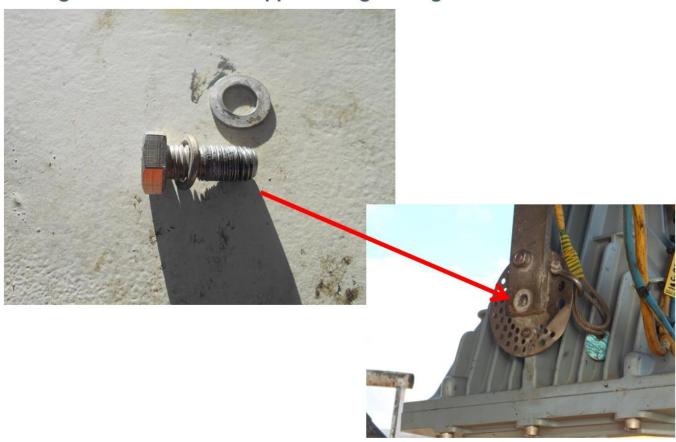
Position of floodlights fitted to AFT crane Boom tip



Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Floodlight)



Example of missing bolt, which was the same as from the adjacent floodlight which threads stripped on tightening.



Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Light



Fittina)

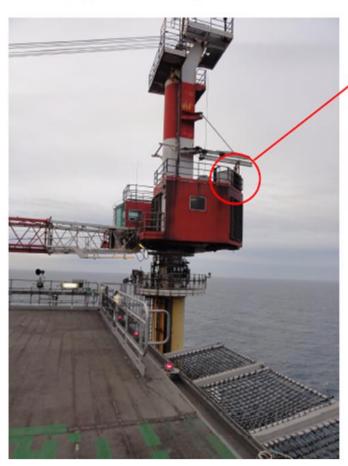


The light fitting became detached from one end and the weight caused the other bolt and earth strap to fail in a pendulum effect with the fitting coming to rest against the gantry below the fitting and suspended from the supply cable.

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Air Intake



Louvre) Dropped Object





Engine air intake Louvre landed on the helideck

Missing Louvre

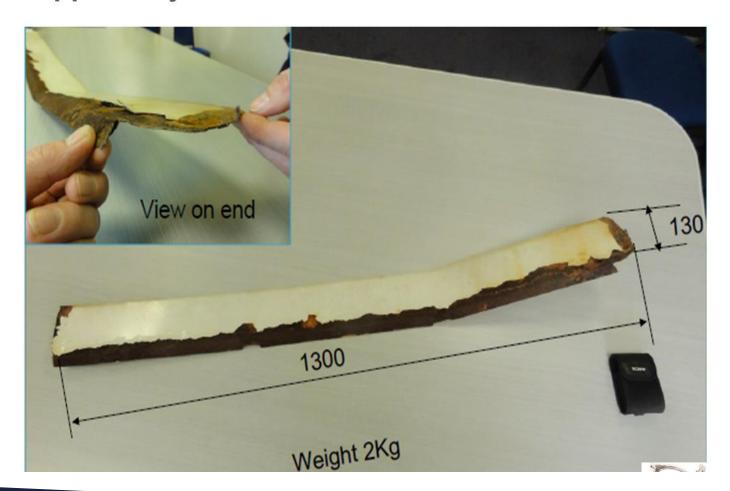


Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Air Intake



Louvre

Dropped Object



Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016





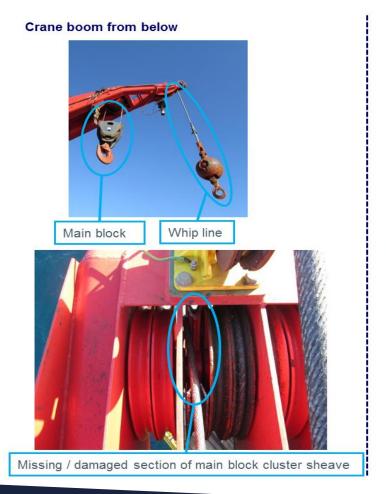
Inspection team removed loose area of plank as a short term measure. The plank is still supported in the centre and the opposite end and is secure in this condition.

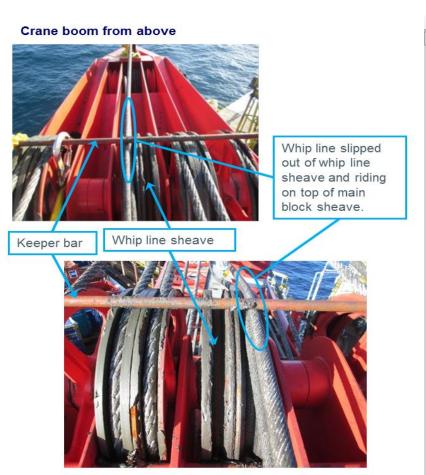
As found condition of the 4th Plank



Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Whip Line Sheave)

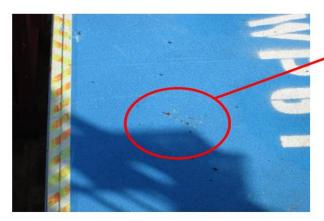






Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Whip Line Sheave)





Initial impact point on top of Optima workshop container (starboard aft main deck)



Dropped Object - Weight 1.9Kg, Size 38cm x 6cm x 5cm

Final resting place (starboard aft pipe deck walkway)

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016



Crane Boom Safety Wire and Bracket Assembly





Broken Bracket Weight 44.16 grams

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Inclinometer)





Final position of inclinometer on pipe deck



Sheared screwed rod as found on Pipe Deck

Dropped Object from Repsol Sinopec Resources Cranes 2013 -2016 (Inclinometer)





Inclinometer in position on West Crane, for reference



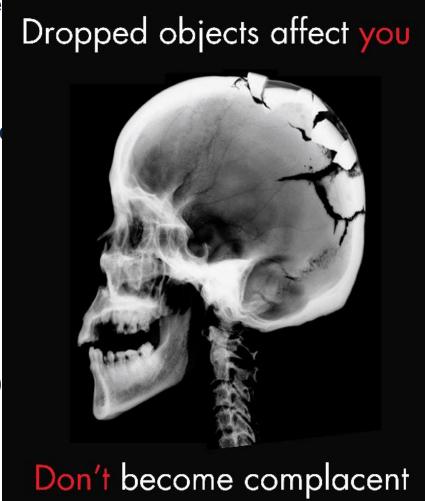
Inclinometer pointer and bracket East Crane, post incident

Action required by all Sites



- Time for a health check on your Crane
- Winter is on it way lets check before the bad weather arrives.
- Get someone that is independent too the Crane Ops/Tech to go up and chee (Site HSEA to Delegate)
- Recorded findings in the Site DROPS register.
- Findings to be Risk Assessed.
- Relevant Work Orders to be Raised
- Synergi Case to be Raised
 As per requirements of the
 Drops Procedure HSE-PRO-TLM-080

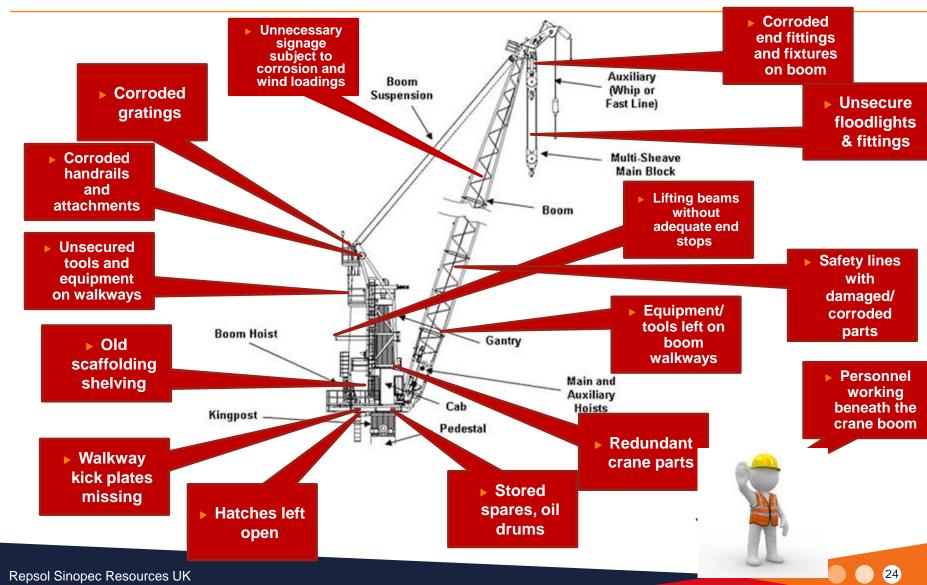
The next slide provides a good starting block for what to look for!



Pedestal Crane PDO



Potential hazards taken from Site cranes reports

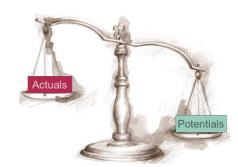


What are the top 5 causes of dropped objects at our Sites during 2016 YTD



- 1. Inadequate Securing
- 2. Poor Hazard ID and Risk Assessment
- 3. Inadequate Maintenance
- 4. Corrosion
- 5. Failed Fixtures & Fittings





Summary

Find it and secure it before it falls!



DROPPED OBJECTS FACT: Dropped objects are FACT: a common problem for Serious The DROPS evervone in FACT: The number injuries and scheme is the Oil & Gas and Marine of dropped fatalities occur a common all too regularly solution to industries objects within eliminating as a result our industry ingredient of dropped injury and is intolerably critical to the objects damage to success of people, DROPS structures is your and support and equipment commitment

Golden Rule #8

8 PREVENT DROPPED OBJECTS

We prevent dropped objects by:

- ensuring all tools, equipment and materials are secured:
- 2. taking measures to prevent dropped objects when working at height or over grating;
- erecting barriers over drop zones below worksites:
- 4. removing all tools, equipment and materials from the worksite on completion of work; and
- 5. inspecting structures and equipment at risk from falling.

Thank you Any Questions





Repsol Sinopec Resources UK