

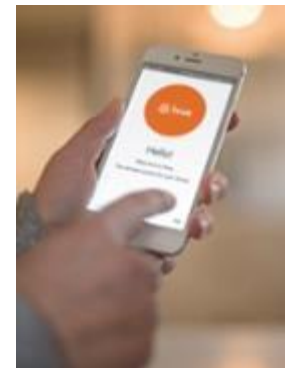
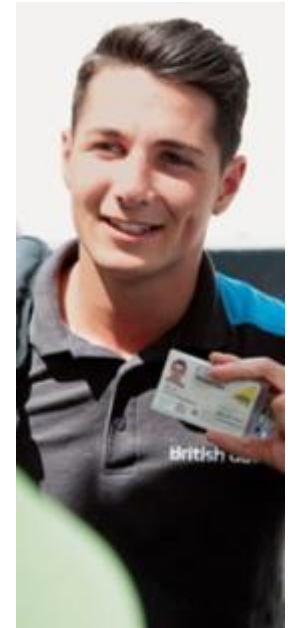
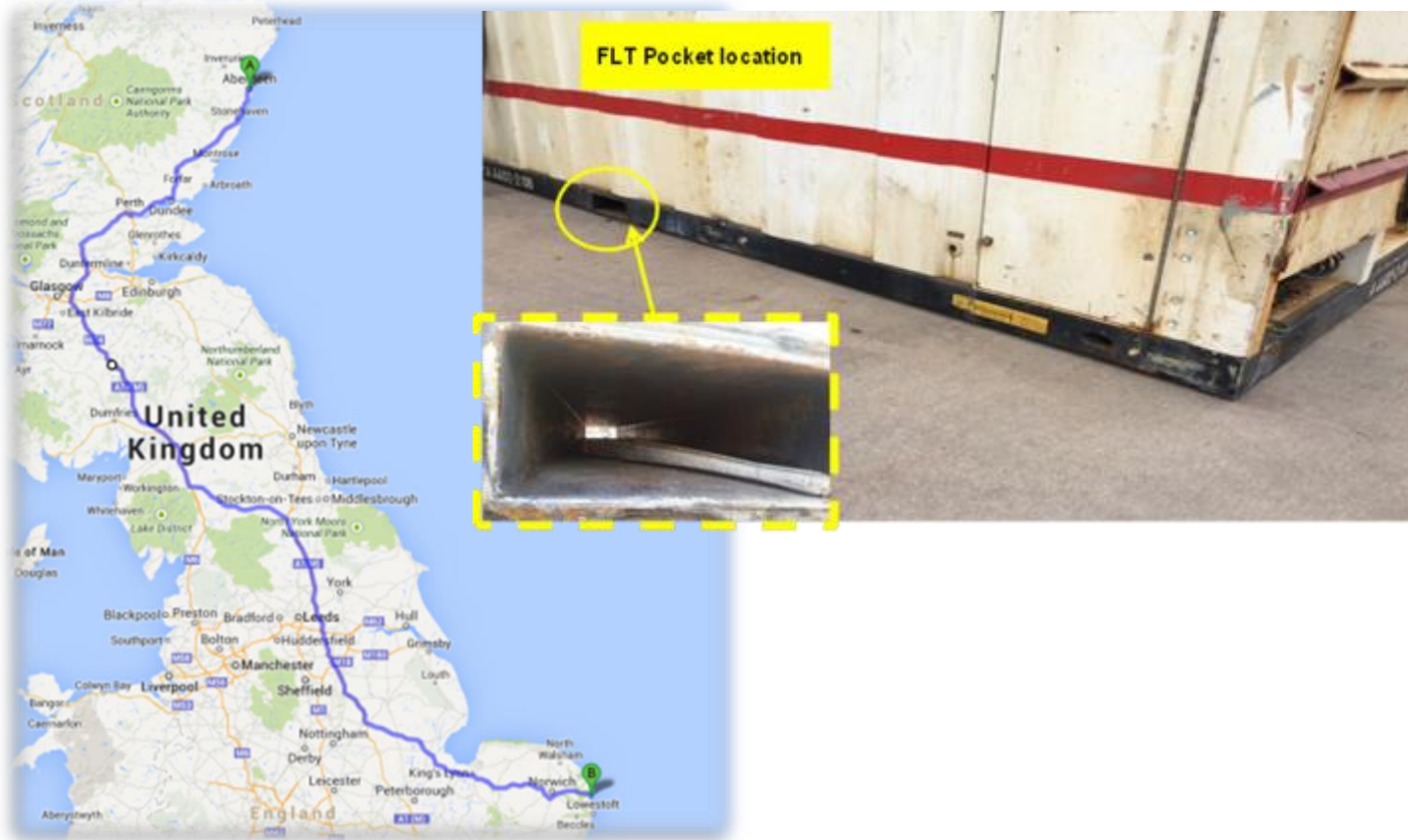
# HiPo Near Miss Potential Dropped Object

December 2016



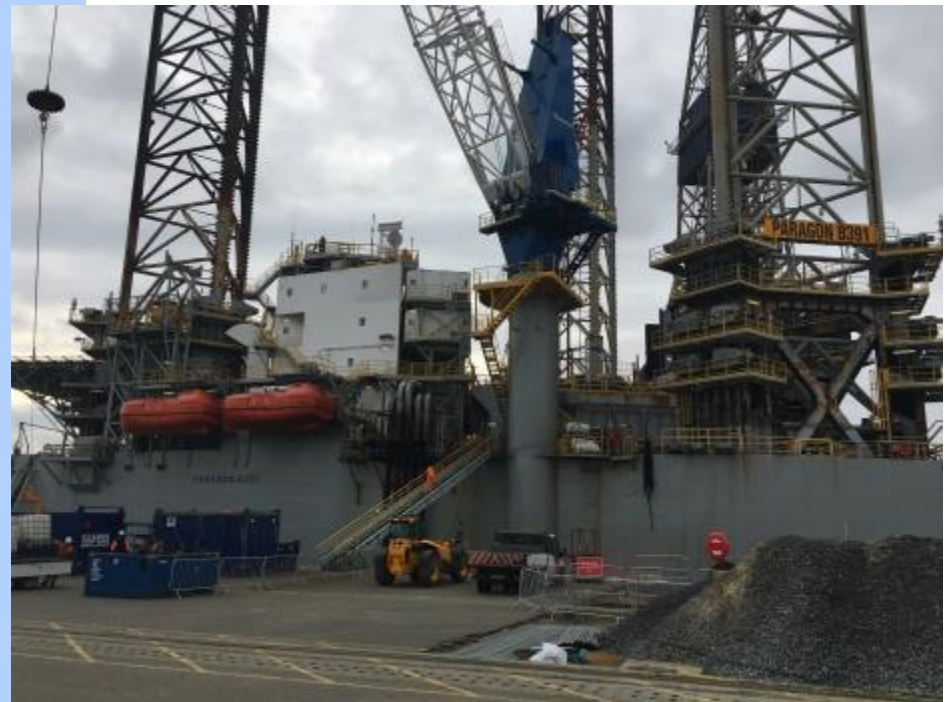
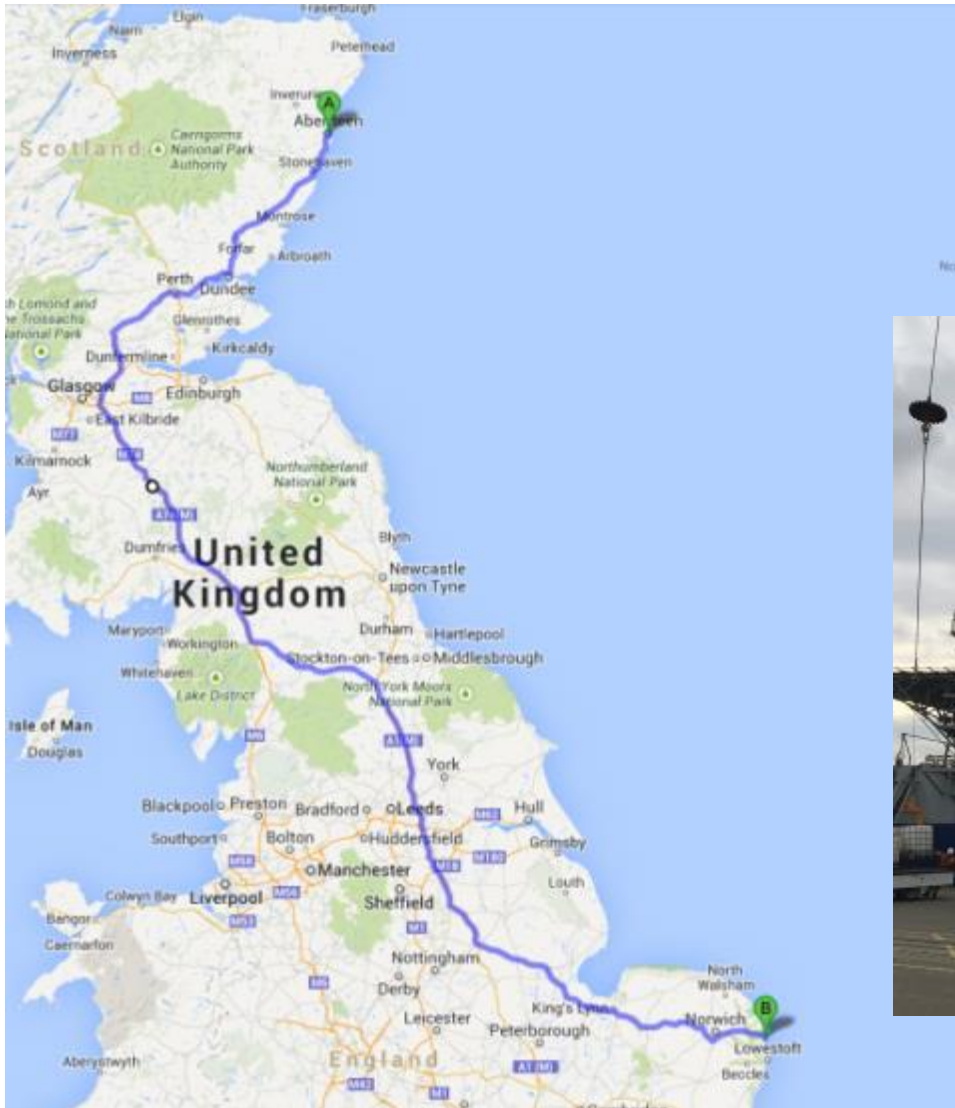
# What Happened

A 450mm long, 2Kg pipe wrench was found inside the forklift pocket of a workshop unit that had been back loaded from the our drilling rig in Gt Yarmouth to Aberdeen, A journey of nearly 600miles.



# Potential Consequences

- Dropped Object from height during multiple lifts on rig and quay side
- Injury to people from item coming loose during transit



# Immediate & Root Causes

## Identified Immediate Causes

- Pipe wrench was not observed during pre-lift checks – 3 parties
- Pipe wrench in the FLT pocket for an extended period – corrosion

## Identified Root Causes

- ***Error Inducing Conditions***
  - Unit is a workshop - wider than a standard CCU. Shadows created middle of pockets
  - Pipe wrench heavy corrosion - made observation difficult
    - Verified during mock up post event
- ***Inadequate Procedures***
  - No requirement for additional checks on units:
    - Onboard extended period of time
    - Wider than normal





FLT Pocket location

**FACTORY**

Pipe Wrench barely visible inside FLT Pocket



Mock Up photo with Pipe Wrench inside at middle location of FLT pocket. Photo taken under normal lighting conditions



**Mock up photo of pipe wrench inside FLT pocket, wrench is at the side of the pocket (Photo taken with additional lighting).**

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## CORRECTIVE ACTION

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Units on-board for an extended period of time (6 months) to have, Client Rep to witness/carry out independent checks – Action to be captured in future rig evaluations & interface documents

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Well Operations HSE interface document template to include requirements for inspection and tagging of non standard containers prior to shipment.

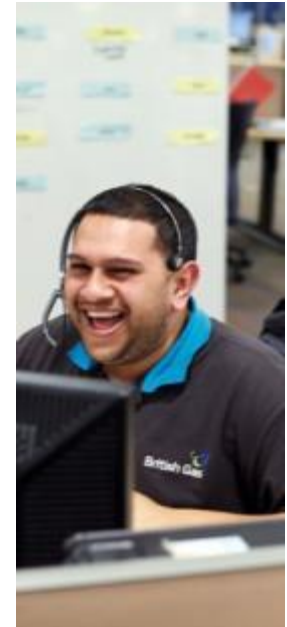
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DC Container checklists to be updated to include:

1. Requirement to check FLT pockets
  2. Containers wider than 2.4m to have FLT pockets checked from both sides with a torch.
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Update QC Inspection checklists for outbound goods to be updated to include additional checks on workshop type (non-CCU) units - photographs to be taken of FLT Pockets internals - ensure free from debris

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# DROPS Calculator

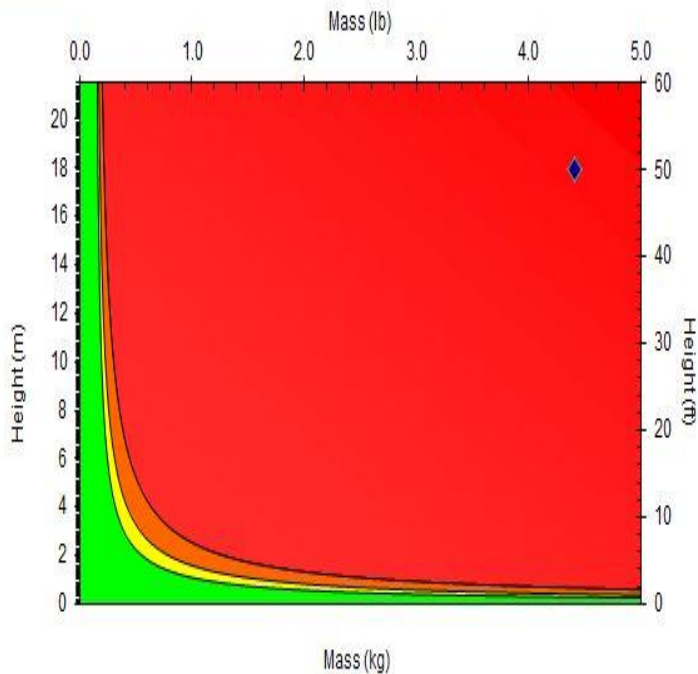


**Outcome Calculator**

Height:  m  Ft

Mass:  kg  Lbs

Outcome: Fatality



■ Fatality - (Major/Fundamental (5P))    
 ■ Major - (Important (3P) or Significant (4P))    
 ■ Minor - (Minor (2P))    
 ■ Slight - (Minor (2P))    
 ◆ incident

## Important information for Users

**GRAPH FUNCTIONALITY:** For full functionality, please Enable Content where prompted. For information, a single Macro is employed in this workbook to rescale the top Mass(lb) axis where applicable.

**CALCULATOR ASSUMPTIONS:** The Calculator assumes that full PPE is being worn and that the object is blunt (no sharp edges - outcome would be worse).

**CALCULATOR ACCURACY:** The DROPS Calculator is a guide only and is intended to give a general idea of the potential severity of a dropped object. A detailed and specific risk assessment will always deliver a more accurate calculation of potential severity.

Drops Category	Explanation	Centrica Event Severity Matrix
FATALITY	Death resulting from an injury or trauma.	Major/Fundamental (5P)
MAJOR	A Lost Time Incident (LTI). Non-fatal traumatic injury that causes any loss of time from work beyond the day or shift it occurred. Also referred to as Day Away From Work Case (DAFWC).	Important (3P) or significant (4P)
MINOR	A Recordable Incident. A Work-related injury that does not involve death, day(s) away from work, restricted work or job transfer, and where the employee receives medical treatment beyond first aid.	Minor (2P)
SLIGHT	A First Aid Case. Limited or no injury. Treatment may be limited to first aid.	Minor (2P)

