



BE FIRST



Lower Level Dropped Objects

Lifesaving Rule – Dropped Object Prevention



**DROPPED OBJECT
PREVENTION**

I must

- Assess every task for potential dropped objects
- Put preventative and mitigating controls in place
- Review collision checklists before operating moving equipment
- Secure all working at height tools and equipment
- Inspect all loads and lifts for potential dropped objects
- Report any secondary retention failures

Lower Level Dropped Objects

2015 Review

- 25 incidents involving a Dropped Object
- All incidents classified Dynamic
- 8 of 25 Under 5mtr Dropped Objects
- 4 of 25 resulted in injury
- All 4 were Under 2mtr Dropped Objects

Lower Level Dropped Objects

INCIDENT DESCRIPTION	HEIGHT	WEIGHT
Battery drill fell through a gap in scaffold and hit man in face	0.8mtr	1.6kg
Tugger/ winch wire deflection roller falls and hits man in hand	1.5mtr	45kg
Jack and spacer fall and hit man in head when removing a tensioner pin	0.7mtr	1.2kg
Guide roller falls from tripod and hits man on the foot	0.8mtr	63kg

Lower Level Dropped Objects

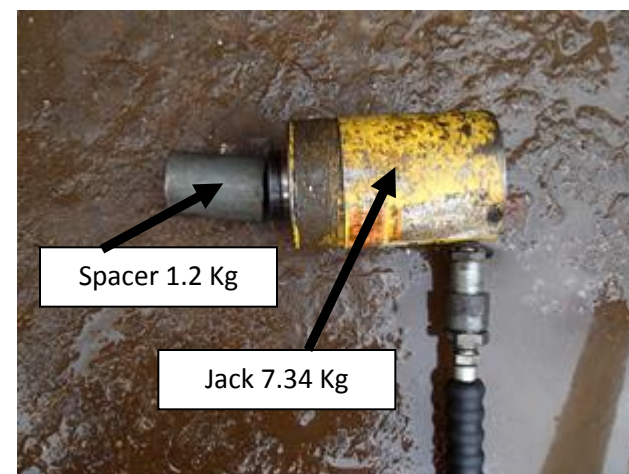
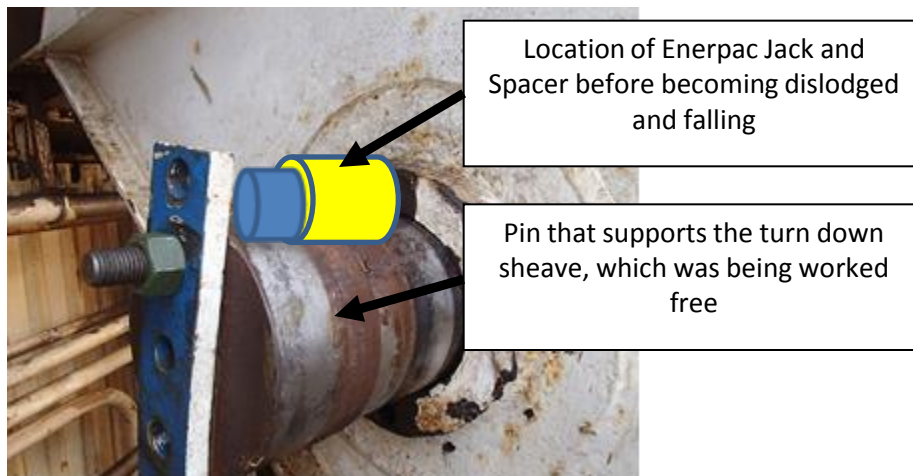
Installation of cladding in a cement unit:

- Passing a 2mtr x 1mtr stainless steel sheet from ground to 1st level of scaffold
- IP took cover under scaffold while sheet was pulled up
- Battery drill on floor of scaffold was kicked
- Drill fell through a gap in the Scaffold and hit man in the face
- **1.6kg, 0.8mtr to impact, total height of platform below 2mtrs.**

Lower Level Dropped Objects

Removal of pin from tensioner:

- Replacing bearings in turndown sheave
- Pin was required to be pulled out of the sheave
- Pin was moving freely with a puller and the jack/ spacer to assist.
- IP moved forward to remove a grinder that had been used previously, jack and spacer fell and the spacer hit the IP on the back of his head behind his ear.
- **1.2kg fell approximately 0.7mtrs.**



Lower Level Dropped Objects

Removal of pin from tensioner:



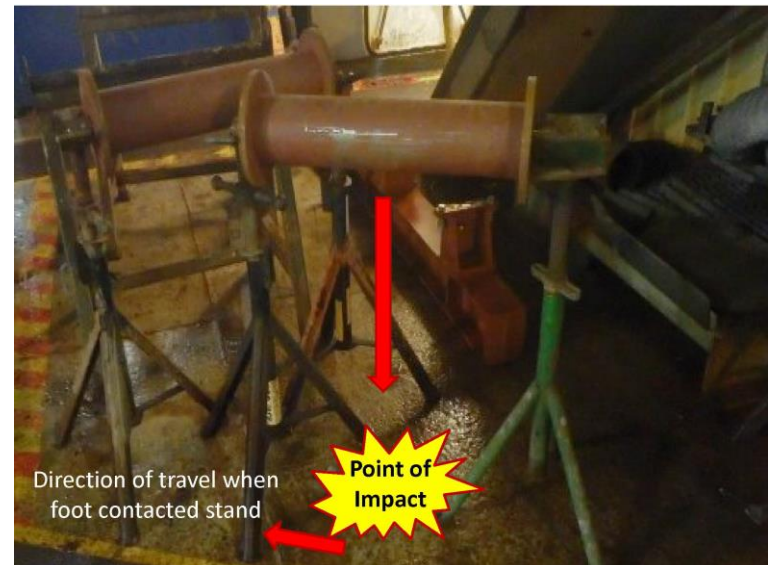
Position of IP when Spacer fell

**1.2kg fell approximately
0.7mtrs**

Lower Level Dropped Objects

Guide roller falls from stand:

- The guide rollers had been placed on tripods to enable personnel to work on them
- The tripods had been purposely positioned off of the walkway
- Work on the rollers had been completed
- Thought that the IP contacted the tripod with his foot as he walked past
- The roller fell from the tripod stand and landed on the man's foot
- **63kg fell 0.8mtr**

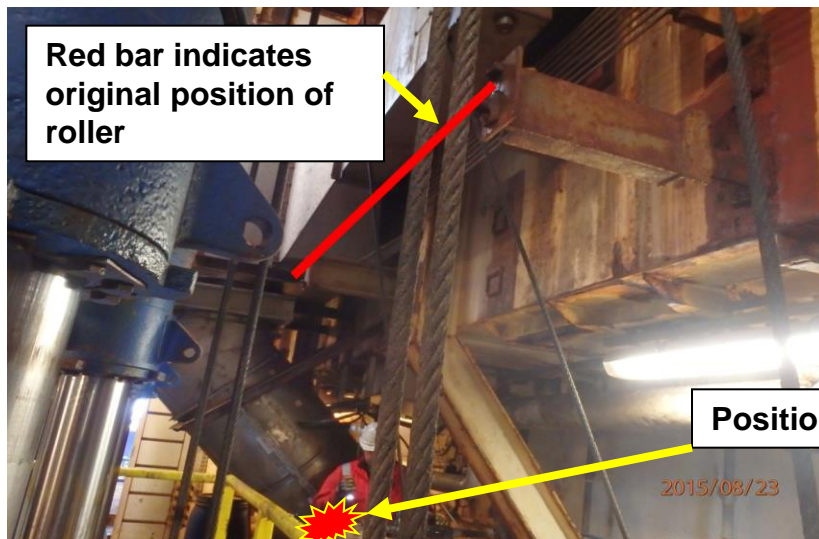


Lower Level Dropped Objects

Winch Wire Guide Roller Shears :

- Uneven tension applied to the roller bar by two wires
- 2 x tugger wires applying different forces to a single roller
- No maintenance schedule developed to document and record greasing or inspection (seized roller)
- No engineering design completed for modification to the original roller

45kg fell 1.5mtrs



Lower Level Dropped Objects

1000 incidents

565 under 5 mtrs

313 under 1 mtr

Inadequate Securing and Failed
Fixtures and Fittings

Lower Level Dropped Objects



Low Hanging Fruit:

- Equipment stored on walls – use of storage pegs
- What's the inspection criteria?
- Are they being overloaded?
- Have they been overloaded in the past, are they deformed?
- Have they been built to suit the object being stored?
- We asked our rig crews to conduct hazard hunts with potential low level dropped objects in mind.

Lower Level Dropped Objects

The Results



Lower Level Dropped Objects



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