



Prevention of Dropped Objects Drops Forum 19th Sept 2017 By Lenny West

Overview

To the end of Aug 2017 across our 12 Assets we have had 46 dropped objects =

3 reportable drops object incidents including 1 HPI dropped object incident, (no injuries)

Trends

- 8 Dropped Cable tray/Unistrut
- 4 Dropped Insulation Panels/Cladding



Dropped Cladding High winds Jan 2017

Panel weight 5 kg

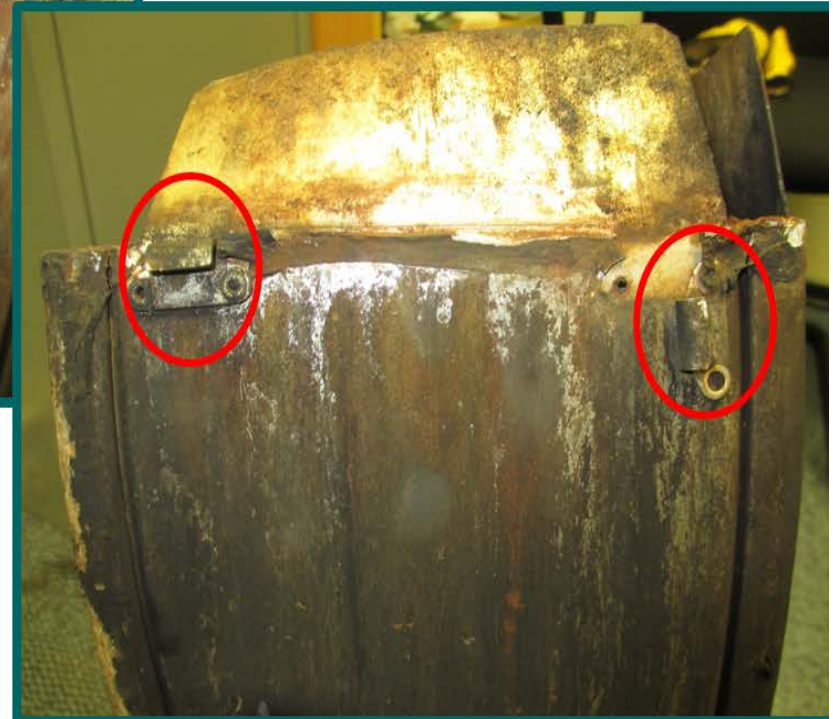


Emergency Generator exhaust ducting dropped 9mtrs to deck. HPI



Root Cause:

The insulation collar & clips have been in place for 20+ years. Also due to exposure regarding vibration during start-ups of the emergency generator, insulation being exposed to environmental elements e.g. wind, rain, and various temperatures this has been a root cause.



**Damaged securing fixings.
These four riveted clips alone
secured the two pieces of
ducting together**

High Potential Incident Dropped Cladding



Root Cause

- **Incorrect banding material used for cladding retention**
 - 304 grade material instead of 316 material
 - 304 not recommended in marine environments due to low resistance to chloride induced corrosion.
- Metallurgy testing
 - No manufacturing anomalies
 - Complete mechanical failure
 - Process of chloride pitting
- Accelerating factor
 - Wind direction and speed
 - 25 kts 138deg (southerly)



Examples of Cable tray/Unistrut drops

Both pieces of unistrut;
combined weight of
15 kgs



The top 5 causes of dropped objects at our Sites during 2017.

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



Summary

- Over the last couple of years our dropped objects are on the increase
- We have now a Drops Focus Group that meet monthly
Chaired by an Operations Manager, with members from Drilling, Integrity, HSE & Control of Work with the objective to support our Assets in all aspects of the prevention of dropped objects.
(e.g. Inspections, review drops incidents & potentials, worksites drops hazard management compliance to procedure).

We would like to share with you a 3 minute animation on a dropped object ESDV Plate



Link

Any questions on the presentation?
Thank you