

Focus Group – Maintenance & Inspection

Drops Forum 26 Feb 2015



What Is The Problem?

There are currently too many grey areas for the Maintenance and Inspection of secondary retention securing.

This leaves uncertainties on:

1. What should be inspected?
2. When should it be inspected?
3. To what standard/best practice should it be inspected?
4. Who is responsible and should be performing the inspection?

This is a frequent root cause of dropped objects!



What Is Our Solution?

A quick reference matrix formatted table to clearly overview (for both the owner and the inspection company) of what secondary securing is typically installed and a best practice for periodic inspection and routine maintenance.

This will clarify:

When: is it weekly, monthly, 3 monthly, 6 monthly, annually etc.

Why: LOLER, PUWER, API, Client, Best Practice, PM task etc

By Whom: Owner, Operator, 3rd Party



Example

| 1 | EQUIPMENT TYPE | MANUFACTURING CODES / STANDARDS | PRIOR TO FIT AFTER REPAIR / | ANNUAL QUARTERLY EVERY 5 YEARS | % | | EXCESS | | | SWL x 1.22 + 20 | SWL x 2.2 | SWL x 2.5 | DNV 2.22 & L.L.O. | OTHT | LOLI | LOLI | B | M | M | CERT. OF CONFC | DESTRUCTION | CALIBRATION | STRESS CALC | FULL FABRICATI | OTHT | |
|----|--|-----------------------------------|-----------------------------|--------------------------------|------|----|--------|-----|-----|-----------------|-----------|-----------|-------------------|------|------|------|---|---|---|----------------|-------------|-------------|-------------|----------------|------|---|
| | | | | | 10 | 25 | 50 | 100 | 300 | | | | | | | | | | | | | | | | | 3 |
| | | | | | MTHS | M | M | | | | | | | | | | | | | | | | | | | |
| 1 | CRANES (PEDESTAL / MOBILE) (UNDER 20t) | BS7121 / BS EN 13001 | ● | ● | ◇ | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 2 | CRANES (PEDESTAL / MOBILE) (20t-50t) | BS7121 / BS EN 13001 | ● | ● | ◇ | | | | | ● | | | | | ● | ● | | | | ● | | | | | | |
| 3 | CRANES (PEDESTAL / MOBILE) (OVER 50t) | BS7121 / BS EN 13001 | ● | ● | ◇ | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 4 | ELECTRIC OVERHEAD TRAVELLING CRANES | BS7121 / BS EN 13001 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 5 | MARINE LIFEBOAT DAVITS | BS MA41 / 15516 : 2006 | ● | ● | | ● | | | | | ▲ | | | | ● | ● | | | | ● | | | | | | |
| 6 | DAVIT BLOCKS & ASSOC. EQUIPMENT | BS MA41 | ● | ● | | | | | | | | ● | | | ● | ● | | | | ● | | | | | | |
| 7 | FORKLIFT TRUCKS | BS.ISO 5057 / BS EN 1726-1/2 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 8 | PALLET STACKERS | ISO 2295-4 / ISO 5766 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 9 | PALLET TRUCKS | BS ISO 509 (1996) | △ | △ | | | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 10 | PERSONNEL & GOODS LIFTS | BS2655 / BS5655 / BS5656 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 11 | SUSPENDED CRADLES | BS2830 / 5974 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 12 | POWERED HOISTS (ELECTRIC) | BS EN 13001 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 13 | POWERED HOISTS (PNEUMATIC) | DIN F.E.M. 9.751 | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |
| 14 | MANUAL HOISTS (CHAIN BLOCKS) | BS3243 / BS EN 13157 (see note 5) | ● | ● | | | ● | | | | | | | | ● | ● | | | | ● | | | | | | |
| 15 | LEVER HOISTS (PULLIFTS) | BS4898 / BS EN 13157 (see note 5) | ● | ● | | | ● | | | | | | | | ● | ● | | | | ● | | | | | | |
| 16 | WIRE ROPE HOISTS ("TIRFORS") | BS EN 13157 (see note 5) | ● | ● | | | ● | | | | | | | | ● | ● | | | | ● | | | | | | |
| 17 | WIRE ROPES FOR ABOVE | BS EN 302 / BS EN 12385 | ● | ● | | | | ● | | | | | | | ● | ● | | | | ● | | | | | | |
| 18 | BEAM TROLLEYS | BS EN 13157 (see note 5) | ● | ● | | ● | | | | | | | | | ● | ● | | | | ● | | | | | | |

Benefits & Risk Mitigation

Having a clear and easily accessible document to clarify these areas will:

1. Prevent any confusion
2. Ensure consistency
3. Ensure inspection and maintenance is carried out:
 - By the correct authority
 - Within the correct time frame
 - In the correct procedure/method

Preventing Dropped Objects!!!

