

# The Harding derrick-inspection guide: Defying gravity!

Ian Shearer, Deutag UK Ltd

Bill McLellan, BP Amoco

THE DRILLFLOOR HAS long been recognised in the industry as a potentially hazardous area, a fact borne out by the comparatively high incidence of both serious and fatal accidents on

as a key target within their ongoing safety-awareness and risk-reduction programme. A Derrick Inspection Guide, intended as a means of controlling, inspecting and maintaining both permanent and temporary equipment located within the derrick and which could therefore present a dropped object hazard, was seen as the way forward. Simultaneously, Step

Change 2000, a pan-industry initiative established and coordinated by HSE, UKOOA and IADC with the intention of delivering a 50% improvement in offshore safety, had identified drillfloor safety as a primary target for improvement. With this in mind, the Harding Drilling Team committed to making their Derrick Inspection Guide work well on Harding, and also to make available to the industry at large all of the positive aspects of their initiative for the benefit of everyone.

The Harding Derrick Inspection Guide was implemented in advance of recently introduced UK legislation covering the use and maintenance of lifting equipment. This legislation imposes additional responsibility on employers with regard to the safety of personnel either involved or affected by lifting operations and equipment.

## INVOLVEMENT

Workforce involvement has long been recognised on Harding as a prerequisite to the success of any safety initiative. This is evidenced through the highly successful Employee Led Safety Initiative (ELSI) implemented by the Harding Drilling Team in early 1997<sup>1</sup>. The drillcrew, in conjunction with the management team, scoped out, planned and implemented the Derrick Inspection Guide project. Without doubt, their contribution to, and subsequent ownership of, the Derrick Inspection Guide, is crucial to its long term success.

## APPROACH

It was recognised early on that the main tangible outcome from the initiative would be a process in the form of a Derrick Inspection Guide. It was also recognised that several stages would have to be gone through in developing this guide and that if the guide was going to be used by the drillcrew it would have to be both concise and user friendly. An 8-step approach was developed to deliver the Derrick Inspection Guide, as outlined below:

- **Hazard identification:** A comprehensive review of all items in the derrick and sub-structure with the potential to become a dropped object. These items are inventoried and their method of securing recorded. On Harding 336 items were logged;
- **Identification of all derrick and substructure operations:** Based on a sequential review of all likely well operations to be carried out (drilling, casing, wirelining, etc.) a task analysis is conducted with each item of equipment required for each task being identified and its position within the derrick marked-up on derrick and sub-structure drawings;
- **Derrick inspection areas:** Sub-divide the derrick and sub-structure into manageable areas which have discrete physical boundaries. On Harding, 5 such areas were identified, as shown in Figure 1. These areas were further assigned a colour code to simplify and ensure check sheets were referenced easily to the appropriate areas;
- **Verification process:** Using the marked-up drawings and previously prepared inventory, a detailed inspection of the derrick



Figure 1: The Harding drilling team identified 336 potential "dropped objects" in the derrick and substructure as part of a comprehensive effort to eliminate the problem. The next step was to identify all derrick and substructure operations. Finally, the team sub-divided the derrick and substructure into 5 manageable derrick inspection areas. Colour codes were used to ensure check sheets were referenced to the appropriate area.

drillfloors worldwide. From IADC incident statistics<sup>2</sup>, about 45% of drilling related accidents occur on the drillfloor or derrick, with a significant proportion of these involving equipment falling from the derrick. Indeed, drillcrew have been one of the highest risk group of workers offshore, not by virtue of their exposure to the threat of blowout, but due to their exposure to injury and fatality from their immediate working environment.

It was against this background that the Harding Drilling team identified dropped objects within the derrick and substructure

# Harding Derrick Inspection Guide

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