SAPC HSE Working Group Introduction and Information Sharing

29th August 2019
Who are we?
The team:

- Wayne Bauer – Vantage Drilling
- Graham Robertson – Shelf Drilling
- Tom Andrews – Red Wing Shoes
- Iain Walker – Lamprell
- Aaron Mannion – Aban Drilling
- Paul Anderson – Seadrill
- Kenny Adams – KCA Deutag
- Rael Mallech – Stevens Supply International
- Kyle Kassen – Safar Oilfield Supplies.
What do we want to achieve?
SAPC HSE Working Group

Mission

• To deliver permanent and ‘second nature’ preventative HSE solutions to the Drilling and Associated industries.

Objectives

• Identifying best practice HSE strategies
• Communicating best practice HSE strategies
• Creating a series of guidance documents and tools which can be used to reduce the incident rates.
SAPC HSE Working Group

- Focus areas
  - Workgroup decides on an area of concern
  - Creates a set of deliverables
  - Reviews deliverables with SAPC Committee to obtain approval to proceed
  - Creates a strategy for creating the deliverables
  - Assigns team members to work on designated tasks
  - Sets regular review dates/meetings to measure task completion
  - Shares deliverables with IADC and Industry members.
• Hand Injuries accounted for approximately 43.4% of all injuries in the Drilling Industry in 2017 according to IADC data.

• Over the last 3 years the IADC Hand Injury statistics have shown an average of 508 people per year suffering a Hand or Finger injury.

• Individual companies have a significant number of great ideas on how to prevent Hand and Finger Injuries but as an industry we do not currently have a consistent approach on how to manage these types of incidents.

• There is a clear need to confer and provide some basic guidance on how way we do things within this industry.
Our deliverables are:

• Develop a Guidance document that provides generic advice for reducing/controlling hand and finger safety.

• Develop a standard communication platform to share our findings with the wider industry.
Hand Safe Deliverable

Our strategy to complete these deliverables is:

• Review industry incident data to determine where hand and finger injuries are occurring most frequently
• Analyse best practice initiatives being used to prevent these incidents from occurring
• Develop a list of suggested, minimum standard, Hand Safe initiatives for industry use.
Communication Strategy:

• SAPC Website – updated to include ‘working group’ tabs
• SAP Chapter meetings
• IADC Conferences
• HSE Working Group emails via mail out lists.
As Hand and Finger safety is our first deliverable we have prepared some short presentations to share some lessons learnt on this topic.
We are always on the look out for new members so if you are interested in joining our little team then contact me or one of our working group members for more details on the next meeting.
Incident Investigation

Injured Party Slipped and impacted his wrist
Incident Investigation
Description

After completing a cement job, the drill crew were tasked in conducting housekeeping around the rig floor before picking up BHA.

A Floorman (Injured Party) picked up a low torque valve and proceeded to carry it to the storage space behind the Draw works.

Whilst walking he slipped and lost his balance falling to the floor and not releasing the Low torque valve from his grip. On impact to the floor the low torque valve weight struck the injured party on the wrist.

The injured party was taken onshore for a precaution X ray, the X ray revealed a chipped bone to his wrist and was sent back to the rig on restricted duties.

He recovered well and is fully fit again
Incident Investigation
Pictorial Details

The question was asked did he know that the maximum lift manually was 25kgs? Answer was yes, we then realised that when we asked him how heavy the low torque was? He had no idea and only guessed 20kgs, in fact when we weighed the low torque valve it was 43.7kgs.

We then quickly identified that as a company we have failed to support the crew by not identifying weights on all equipment they handle. So we started a campaign on all of our rigs and found a large amount of equipment does not have its weight identified on it and is above 25kgs.
Example of Other items identified:

- X-Over & subs
- Electrical motors & jacking motors
- Bulk hoses
- BOP rams
- Power tongs
- Mud pump liners
- Mooring Ropes Choke and Kill hoses
- Metal plate/angle
- SCR Breakers
- Deck Hatch covers

We now ensure our rigs have a method of lifting items over 25kgs with a device that allows the crew to make the lift with more than 1 person.
Thank You

HSE Incident Investigation Summary
KSA 14.05.19 Lessons Learned

**Brief Description of incident**

After completion of wireline operations, the crew was tasked to rig down the wireline equipment.

As the equipment was rigged down, it was identified that one additional piece of Chicksan was required to complete the connection.

The driller instructed two floormen to retrieve the required Chicksan from the storage rack.

The floormen went to the storage rack and manually attempted to retrieve the Chicksan piece from its position at the top of the rack.

One floorman pushed his side of the Chicksan so that it was released from its storage pin.

At the opposite side; the second floorman failed to lift his side of the Chicksan far enough to clear the pin, consequently, the free end of the Chicksan swung downwards, pivoting on the opposite end, which was still located on the storage pin.

As the Chicksan swung, it made contact with a lower storage pin on the rack at the same point as where the Injured Party had placed his hand to steady himself whilst he lifted.
KSA 14.05.19 Lessons Learned

Outcome

Blunt trauma to the fingertip, resulting in amputation from the first knuckle.

What went well?

The rest of the rig up operation proceeded as per the TBT and without incident.
The emergency response plan was initiated and functioned as intended.

What went wrong?

The work party consciously made the decision to lift the Chicksan from the storage rack manually rather than wait for the crane.
Not all members of the work party were involved in the main task toolbox talk.
The task leader was not fulfilling a ‘hands off’ approach to the activities resulting in a failure to observe at risk behaviours.
There was no documented plan or risk assessment available for this specific element of the task.

Lessons Learned

Where appropriate, the hierarchy of control measures in respect of manual handling must be applied.
Active monitoring exercises must look past the superficial aspects of tasks and identify any potential for incident or injury, ensuring suitable controls are in place.
Review design of storage rack to permit safe handling of Chicksan
Revise field operations & HSE superintendents’ functions to focus on safety auditing during site visits
Hand Injury Prevention
Presented By: Iain Walker – VP HSESQ
Overall 85% reduction on hand injury incidents (2015 vs. 2019)
Hand injury while wire rope spooling (RWC – Level 3)

Description of Incident:
While transferring wire rope from a bundle to wire rope drum using a hydraulic rope spooler machine, IP’s hand caught in-between the spooler spindle and spooler body resulting in crush injury.

Note:
- IP had unintentionally positioned his hand in risk of impact situation while ensuring the proper alignment of spooled wire rope
- X-Ray and CT scan revealed fracture to left dorsal trapezoid bone
- IP has undergone wound debridement with K-wires fixation

Root Causes:
- Training – Inadequate practice / implementation of skill
- Risk Management and Evaluation – Inadequate guards or protective devices
- Behaviour Skills – Poor judgment / hazard perception
- Checklist – Inspection and pre-inspections checklists missing critical checks on guards and pinch point areas

Lessons Learned:
- Lack of consideration of safety factors on hiring equipment (such as inclusion of equipment or machinery guards) which makes the equipment not safe for use
- Improve inspection and pre-inspection checklists to include critical checks on guards and pinch point areas
- Lack of warning signage or stickers indicating ‘Pinch Points’ on plant and equipment
- Operational guidance and TRA's from suppliers should be provided to the users of the hired equipment
- Reinforce safety requirements in every task

The hydraulic wire rope spooler with no guard and caution signs posted Marked area where IP placed his hand when the drum was rotating at a speed 3 rpm
**LAMPRELL'S SUBCONTRACTOR AND SUPPLIER SAFETY ALERT**

**WE DELIVER WORLD CLASS SAFETY STANDARDS AND LEAVE NOTHING TO CHANCE SO EVERYONE GOES HOME SAFELY**

**OUR EXPECTATION**

TO DELIVER WORLD CLASS HSEQS AND QUALITY PERFORMANCE BASED ON A CULTURE OF OPENNESS, TEAMWORK AND SHARING

TO CREATE AN INJURY AND INCIDENT FREE WORKPLACE AND CONTINUALLY IMPROVE OUR SYSTEMS TO FURTHER ENHANCE OVERALL BUSINESS PERFORMANCE

TO WORK WITH SUPPLY CHAIN PARTNERS WHO ACTUALLY CONTRIBUTE TO THE DELIVERY OF THESE EXPECTATIONS

**YOUR OBLIGATIONS**

TO MEET YOUR CONTRACTUAL SAFETY OBLIGATIONS

USE YOUR STOP WORK AUTHORITY

ENSURE THAT ALL PERSONNEL WORKING WITHIN ALL LAMPRELL PREMISES HAVE THE ABILITY, EXPERIENCE, TRAINING AND KNOWLEDGE TO WORK SAFELY

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**PROPER HANDLING OF EQUIPMENT, MACHINERY AND HAZARDOUS SUBSTANCES**

At Lamprell, we ensure the safety of all personnel by promoting a culture of safety in the workplace and ensuring suitable control measures are in place depending on activities being undertaken. Wherever a trend relating to incidents involving flammable items has recently been identified and if makes safe actions are required:

- Lack of consideration of safety factors on hiring equipment (such as inclusion of equipment or machinery guards) which makes the equipment not safe for use.
- Inspections and pre-inspections not carried out on a regular basis by supplier, vendor and subcontractor, and inspection checklist missing critical checks on guards and other safety areas.
- Lack of warning signs or stickers indicating ‘Prohibited’ or ‘caution’ labels on plant and equipment.
- Lack of awareness provided to the users of the hired items.

This safety alert highlights the minimum requirements, rules and responsibilities to those providing or transferring, and handling machinery, equipment or substances at Lamprell workites.

**Supplier and Vendors**

- Items are appropriately designed, tested and inspected so as to be safe for their intended purpose.
- Items are appropriately packaged and labelled.
- Items come with appropriate instructions and information (such as a Material Safety Data Sheet (MSDS), applicable calibration instructions, certificates, etc.)
- Personal assigned to use the items are competent and aware of the risks that could pose negative impact on their health and safety.

**Subcontractors**

- Items are appropriately designed, tested and inspected as to be safe for their intended purpose.
- Items are appropriately packaged and labelled.
- Items come with appropriate instructions and information (such as a Material Safety Data Sheet (MSDS), applicable calibration instructions, certificates, etc.)
- Lamprell supervision is made aware that subcontractors will be using their own items in Lamprell workites.
- Personal assigned to use the items are competent and aware of the risks that could pose negative impact on their health and safety and of others.

Everyone working within Lamprell’s facilities has a responsibility to ensure the safety of themselves and those working around them. Lamprell tracks the safety performance of each subcontractor & supplier. Poor safety performance will affect a subcontractor or supplier ability to do business with Lamprell. Lamprell strives to deliver world class safety standards and leave nothing to chance so everyone goes home safely.

**Subcontractor / supplier is requested to acknowledge receipt of this communication and confirm that they have reviewed their internal system with regard to meeting the above minimum safety requirements. Responses are required by no later than 30th June 2019.**

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**FOR ANY COMMENTS OR SUGGESTIONS PLEASE CONTACT LAMPRELL SUPPLY CHAIN MANAGEMENT (SCM) DEPARTMENT**
Hand Injury Prevention Campaign

- HIP 'Meet & Greet' Session with yard workforce and distribution of bandanas
- Signing of HIP Commitment banners
- TBT on Hand Injury Prevention with Yard workforce and client

Our hands matter! Our commitment... Our handshake for hand safety
World Safety Day

Words of appreciation and encouragement from Client and Senior Management

Winning posters from ‘World Safety Day Poster’ competition

Games with yard workforce

Signing of safety pledge

Client, Senior Management and yard workforce engagement
Any Questions?