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Ferrule





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What do you do if you find a barb
(broken Strand) on a crane stinger





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We know we have to remove a single barb from a pennant or sling as it does pose a realistic hazard, yet we accept over 50 at the ferrule end of the sling



Although this is very common in most scenarios the puncture will probably result in a first aid treatment being applied

So what's the concern?

There is the potential for "Blood poisoning" - A condition where bacteria enters the blood through a wound or infection. Signs and symptoms of bacteremia may include: Sudden, high fever – Chills - Rapid heart rate - Nausea, vomiting or abdominal pain - Appearing or feeling seriously ill.

A diagnosis of bacteremia is usually confirmed by a blood culture. Bacteremia is a serious illness that requires prompt medical attention. Treatment requires hospitalization and includes intravenous antibiotics. Without prompt treatment, bacteremia can quickly progress to severe sepsis, which is a life-threatening condition

Possible but highly unlikely to occur

The real concern being if we do not attempt to control a known hazard we are accepting first aid cases.



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 Transocean
Legend
19-May-27

 Transocean
Legend
LGD-2000

We recently experienced 2 members of the team needing first aid treatment after contact with wires protruding from the end section of the ferrule. Both cases were fortunate not to escalate into something more severe.



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A roustabout was part of the team moving tubulars on the main deck. As he picked up the sling the section protruding from the ferrule made contact with his finger resulting in a puncture wound.



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Case 1





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Case 1





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Case 1





The drill crew were making up 5 inch pipe running in the hole. As the makeup tong was latched the bite on the breakout tong was released. The floor-man moved forward to assist with making the tong bite in doing so contact was made with the wire protruding from the ferrule on the snub line.

This resulted in a tear to the coveralls and a 6 inch cut to the thigh.



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Case 2





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Case 2





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Case 2





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Safety Alert

From the International Association of Drilling Contractors

WHAT HAPPENED:

A Supply Vessel was discharging cargo alongside a MODU. The main block was being used in conjunction with a heavy lift pendant line. During the operation the Deckhand, in his normal course of operation, handled the pendant line to disconnect / attach the hook. In carrying out this activity he sustained deep cuts to his left hand and thumb. The vessel ceased operations and returned to harbor to get the IP to hospital. Following medical treatment the IP was discharged from hospital but will be unfit for work for an extended period. This has been classified as a Days Away From Work Case (DAFWC).



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WHAT CAUSED IT:

The crane wire termination is a standard aluminum ferrule which is widely used in the industry. Investigations revealed that there were a number of wires protruding from the top of the heavy lift pendant ferrule. The wire tail has to be present to ensure full wire penetration and although they can be trimmed it is very difficult and carries a high risk of cutting the standing part of the wire.

The IP was wearing standard PVC gloves with elastic cuffs which keep the hands dry, warm and allows full mobility but it has the lowest rating for protection against tearing and puncture. Gloves are given ratings for various hazards e.g. Abrasion, Blade Cut, Tear and Puncture.

From evidence it is clear that the IP's hand came into contact with the wires that were protruding the ferrule. Despite the IP wearing gloves, they were not of a satisfactory rating for the job; the wires were sharp enough to penetrate his glove and cause the deep cuts.

The condition of the wires protruding the ferrule created a clear hazard to personnel. Following discussions with operators it has been noted this condition is common.



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CORRECTIVE ACTIONS: To address this incident, this company issued the following:

It is recommended that all operators inspect their lifting equipment for similar type of deficiencies.

In the long term these types of terminations require to be re-assessed, consideration should be given to terminations that do not create such hazards.

- A recommended solution is to utilize crane pendants for offloading / back loading supply vessels which are fitted with a Flemish or 'Super Loop' type of termination (pictured). The sleeve has a tapered top which encompasses the wire ends.
- It is suggested that they would only be required on crane pendants and not normal wire slings. It is further recommended that Companies ensure that operatives wear the most suitable glove for the task.





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The logo for DrillSafe, featuring the word "Drill" in white and "Safe" in green, set against a dark brown background.

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Part of the pre use inspection of a wire rope sling includes checking for movement from the ferrule connection. To cover the tail end with conventional ferrule would not allow this inspection.

The DIN 3093 ferrule has 2 view holes that once installed still allow the correct pre use inspection. The ferrules comply with the Australian standards and are available in sizes from 10mm – 32 mm

From January 1st 2010 all slings ordered for Transocean from the local vendor will have this style ferrule. Although a slight increase in cost we have installed a control that will adequately protect personnel from this type of hazard.



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As of 1st January 2010 as an additional initiative to help prevent hand and finger injuries all crane pennants ordered will have the Nautilus hook attached



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QUESTIONS?

