

QRC Pinch Point Injury

SAFETY ALERT

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Enform

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An Industry Product

This document was developed by industry for industry. Working collaboratively, Enform works with the submitting organization representative in developing these documents to improve the industry's hazard awareness. Canada's leading oil and gas industry trade associations support the use of shared information to help companies of all sizes improve performance.

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For more information on this event, please contact: safety@enform.ca

Description of Incident:

On October 9, 2013, two employees of a third party contractor were positioned on a lower work floor during snubbing unit pressure testing operations. These employees were in the process of installing safety slings onto a bleed-off line. Pressure testing operations were being conducted to test lower Primary BOP components. To gain leverage for his task, one of the employees placed his arm into the travel path of a QRC Ram BOP hydraulic operator. At the same time, the snubbing unit operator function tested the QRC BOP in preparation for additional pressure testing of the upper snubbing BOP's. The third party employee's forearm was pinched by the BOP hydraulic operator resulting in two bones being broken.



QRC Ram BOP hydraulic operator



QRC Ram BOP hydraulic operator covered with engineered guard

By industry, for industry

Corrective/Preventive Actions:

Investigation provided the following recommendations:

Engineering

- Manufacture guards to cover external hydraulic operating mechanism for QRC style Ram BOPs

Procedural

- Ensure that all attendees of the pre-job safety meeting understand the specific pinch point hazard associated with QRC style Ram BOP's
- Ensure that all pressure control components, including equalize and bleed-off lines are fully rigged in prior to beginning pressure testing operations.
- Ensure that third party employees are cleared from work floors prior to BOP function and pressure testing operations.
- Ensure both radio and verbal communication is used to alert workers prior to BOP function.