zero incidents.

Energy Safety Canada is the national safety association for the oil and gas industry. We develop and support common industry safety standards, deliver effective learning systems, share data analysis and safety expertise with workers and employers, and advocate for worker health and safety. Our goal is the same as industry's – zero injuries,

Share and Collaborate / Energy Safety Canada works collaboratively with organizations to develop Safety Alerts that improve hazard awareness and injury prevention. Canada's leading oil and gas industry trade associations support the sharing of information to help companies of all sizes improve safe work performance.

Disclaimer / This document is intended to be flexible in application and provide guidance to users rather than act as a prescriptive solution. Recognizing that one solution is not appropriate for all users and situations, it presents accepted guidance that generally apply to all situations.

While Energy Safety Canada believes that the information contained herein is reliable under the conditions and subject to the limitations set out, Energy Safety Canada does not guarantee its accuracy. The use of this document or any information contained will be at the user's sole risk, regardless of any fault or negligence of Energy Safety Canada and the submitting organization.

Copyright/Right to Reproduce / Copyright for this document is held by Energy Safety Canada, 2019. All rights reserved. Energy Safety Canada encourages the copying, reproduction and distribution of this document to promote health and safety in the workplace, provided that Energy Safety Canada is acknowledged. However, no part of this publication may be copied, reproduced or distributed for profit or other commercial enterprise, nor may any part be incorporated into any other publication, without written permission of Energy Safety Canada.

Avoid the hazard of not knowing.

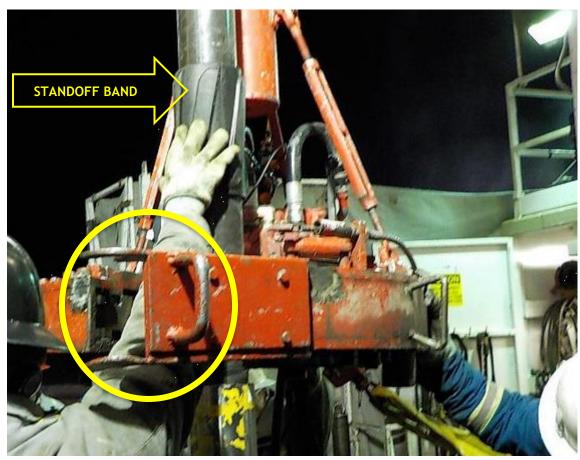
See a full list of subscription options at EnergySafetyCanada.com



WORKER INJURED BY TONGS

DESCRIPTION:

A worker was injured by tongs while working on a drill floor. Two workers and a power tong operator placed the power tongs onto the casing string. The power tong door was left wide open and the impacted workers forearm was directly in the bite while holding a istandoff band onto the pipe. As the worker began to retract his arm in order to close the power tong door, the controls were engaged and workers right forearm was caught in the main drive gear of the power tongs. The gear continued to move before the tong operator stopped the controls. The worker sustained a serious wound to the flesh, muscle and tendons of his forearm.



WORKERS BODY POSITION BY TONGS AND PIPE STANDOFF BAND LOCATION

CAUSE:

The worker held the standoff band by hand while positioned in the bite rather than using a hands-free alternative.

CONTRIBUTING FACTORS:

- Standoff band position above the workers heads.
- Tong operator did not have a clear view of worker positioned in the line fire.
- The worker was positioned in the bite of the power tongs with the door open.
- The rig and casing crews did not inspect or function test the power tongs prior to use.
- The power tong door interlock pin, cable, and hydraulic bypass system were not functional. The crew decided to use equipment that was in need of repair.
- The power tong controls would not isolate and disengage with the door open.

CORRECTIVE ACTIONS:

» Use hands free tool when applicable

- » Develop a "Standard Operating Procedure" for the use, inspection & maintenance of 3rd party equipment
- » Third Party equipment must not be operated unless crew members have been trained and deemed competent

¹ "A device used to keep a <u>tool string</u> in the center of the tubing, <u>casing</u> or wellbore. Tool centralization may be required for several reasons: to prevent the tool from hanging up on obstructions on the wellbore wall, to place fluid efficiently and to avoid excessive <u>standoff</u>." Reference: Schlumberger Oilfield Glossary