

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, zero incidents.

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, 2018. 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.

To view other safety alerts please visit EnergySafetyCanada.com.

# PERSONNEL BASKET ASSEMBLY SECUREMENT PIN FAILURE

#### **DESCRIPTION:**

The failure of a pin securing personnel (man) basket assembly on a knuckle boom crane. A worker was in the man basket and suffered bruising when the assembly pin sheared, and man basket fell to the ground.

The worker wore a separate personal fall arrest system (vertical lifeline) and was secured onto an anchor point on the boom.



CIRCLE HIGHLIGHTS SHEARED PIN LOCATED. SHEARED PIN ON TOP OF KNUCKLEBOOM.

## **CAUSE:**

The metal securement pin failed which caused the basket assembly to fall.

## **CONTRIBUTING FACTORS:**

Design of this personnel basket produces side loading conditions when in use, which may have contributed to excess strain on pin.

### **CORRECTIVE ACTIONS:**

- » The Employer created specific policy for anchoring this specific personnel basket
- » Employer confirmed that the personnel basket is designed to meet CAN/CSA Z150-98(R2004)<sup>1</sup>
- » Additionally, for the reader from the <u>Alberta OHS Act and Code</u>: any commercially manufactured suspended personnel basket that is erected, used, and operated must be maintained in accordance with the manufacturer's specifications or specifications certified by a professional engineer or,
- » A suspended personnel basket that is not commercially manufactured is designed and certified by a professional engineer
- » The personnel basket must be designed and built to some "generally accepted engineering principles". And it is expected that a "manufacturer" is able to provide drawings or sketches of the product that include an assessment of the product's strength, load-bearing capacity, etc. Another element is the availability of written manufacturer specifications.

<sup>&</sup>lt;sup>1</sup> Part 6: Cranes, Hoists and Lifting Devices