Worker Struck by Pile Pipe

SAFETY ALERT

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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Description of Incident:

On Friday, November 14th, two workers were operating a pile driving unit with a 45 tonne mobile crane. On this day, a piece of pile pipe was standing inside the leads. When the operator lifted the hammer, the edge of the pile cap caught the collar of the pile pipe which lifted the pipe slightly. When the operator saw the collar pick up, he immediately stopped lifting the hammer causing it to bounce. The collar released from the side of the hammer allowing it to drop slightly, causing it to kick out at the bottom, striking the rigger, who, at this time was standing at the base of the leads to guide the top of the pipe onto the hammer cap pin. The bottom of the pile pipe struck the rigger on the inside of the right thigh and pushed him backwards onto the ground. This resulted in a broken femur, a fractured hip socket and a bruised lung, caused by the impact of the rigger hitting the ground.

What Caused It:

As the hammer cap was being raised in the leads, it caught the collar on the top of the pile pipe. This was caused by the position of the pile pipe in the leads.

Corrective/Preventative Actions:

• The set up for pile driving procedures have been reviewed and revisions to these procedures have been made. These revisions will be implemented to prevent interference between the pile pipe and hammer when loading pipe into the leads.

- The rigger will be clear of the leads prior to the hammer being raised.
- A safety chain will be installed to contain the pile pipe within the pile driving leads.

• All operators will ensure that constant and clear communication is being made with the rigger during all pile driving processes.

• The revised pile driving procedure will be reviewed with all pile driving operators and riggers.

• The safety chain modification will be made to all pile driving units immediately, prior to continuing any pile driving work.

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