

## #9: Pinned under Metal Concrete Form

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In mid-2008 a thirty year old carpenter was struck and pinned by a metal concrete form while he was working to get it ready for stripping. The carpenter was attached to and on the concrete form when it separated from the concrete wall and tipped onto the worker. The victim sustained a fractured pelvis bone and injuries to his collar bone and knee.



The victim was attached to the metal concrete form by way of his personal fall arrest gear; and he was properly trained through safety orientation training, fall protection training and weekly foreman safety talks.

The investigation determined that the metal concrete form was not effectively secured from displacement. The form ties and braces were removed before the form was attached to a crane hook, and it is believed that the victim leaned away from the metal concrete form causing the form to tip over in the direction of his lean.

Citations were issued totaling \$2,125.

### Recommendations:

1. Review and revise the principle steps of the Activity Hazards Analysis (AHA) for installing and stripping metal concrete forms procedures.
2. Train and document all training of employees in the improved AHA.
3. Ensure that employees inspect and confirm that the form ties, form braces, tie back (rebar) wires, or other means of securing the metal concrete form to the wall are in place and are in good condition before beginning work on the form.
4. Train workers not to tie-off to the metal concrete form when tie-off can be safely done by connecting to the vertical rebars of the concrete wall.