



## Safety Breakthrough

### Positive Safety Initiative December Winner

| Location | Date          |
|----------|---------------|
| M&E      | December 2016 |

#### Description

During early stages of the project there was an issue around suitable cable rollers to pull the hundreds of kilometers of cables required for the project. Commercially available rollers are of a single roller design, because of this and the lengths of the cable runs up to 14 people would have been required for some of the cable pulls to ensure the cable did not come off the roller. There was also a hazard for the person stationed by the rollers of being struck by the cable if it did flick out of the roller.

Tee came up with an idea of using a 4 way roller system to keep the cables contained within the roller. These were not readily available so Tee started designing one himself, the first prototype was constructed from materials he had lying around his home, after the prototype was approved construction began of 300 sets using Unistrut for the housing, conduit for the rollers including sealed bearings and threaded rod for Axels. One of the threaded rods was easily removable to make taking the cable out and setting up for the next cable a quick process with no tools required. As they were constructed from Unistrut they were extremely adaptable and easy to mount to existing containment supports. It is estimated that the cost of these units saved the project \$30,000.00 over using commercially available products, these also saved many man hours by not needing as many people on the cable runs but best of all they made the cable pulling process safer. No manual handling injuries were sustained during the cable pulling process.

#### Photographs



4 Way Roller in Action

#### Safety Benefits

- Reduced number of workers required to conduct task
- Reduced likelihood of manual handling injuries
- Reduced likelihood of injuries to workers being struck by cable during installation
- Reduced likelihood of damage to cable during installation
- Increases efficiency of installation work

This Safety Initiative is to be posted on all Safety Notice Boards and discussed at tool box talks & relevant Committee Meetings



**For Further Information Please Contact**

|          |                       |
|----------|-----------------------|
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| Phone    |                       |

**Could this be implemented within your area of responsibility?**

(Tick one)

YES

NO