

Front Line Safety Challenge 2017 Finalists



Grease Pot Cradles (*Richard Urmston*)

Grease pots can weigh up to 90kg when full and are cylindrical with no handles. This means they are heavy and awkward to move. These cradles allow up to four people to carry one grease pot.



Level Crossing Barrier Pack Trolley (*Richard Urmston*)

Level crossing barrier packs can be awkward and heavy, and removing and replacing them has caused a number of incidents across the organisation. This trolley reduces manual handling and allows safe transportation of the pack.



Lifting Bars (*David Bentley and Dan Willcock*)

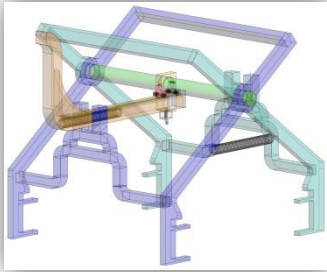
A lot of heavy plant - generators for example – currently need two people to move it, by standing side on and lifting with one hand. The lifting bars give the option to have 2-4 people lifting with both hands – reducing weight and strain to one side of the body.



Battery Bags (*Danny Oram*)

The current battery bags have slim handles that can sometimes snap and cause injury. This proposal is for a harness or stretcher to carry batteries safely, preventing uneven load and less chance of dropping.

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OLE Hoist (*David Garner*)

Currently stovepipes on the overhead lines are manoeuvred into position by hand, which can be slow and strenuous even for two people. The Hoist proposed will clamp to the boom and winch the stovepipes into place.



'Welsh Wheels' One Man Lift (*Dave Clements*)

Currently, it takes four members of staff to get a frog grinder into a welding van. Wales have created a new device – the “Welsh Wheels” - so this can now be done with only one person.



Amberg Trolley Amendments (*Philip Swinnerton*)

The existing Amberg Trolley is awkward to use and currently needs three people to operate. This proposal is for Amberg to make some changes to the trolley's handles to reduce manual handling.



Tie Bar Improvement (*Denis Buckby*)

The current adjustment bars used are difficult to remove and can spring off. Some changes have been made to the bars and a more suitable spanner created to make tie bar work safer and easier.

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13. Mobile Area Logistics Platform (*Richard Merrills*)

Rather than carrying tools and equipment down the track, this trolley fits onto the rails and can carry tools and equipment for you.



14. Manhole Remover (*Nico Defeo*)

This mechanical aid has been created to take the strain out of lifting manhole covers when carrying out maintenance within the catch pits. It reduces manual handling by winching the manhole cover out of the pit.



15. Steel Cage for a Crane (*Randal Davison*)

Currently large items of plant are being lifted manually by hand above head height directly onto trams. A cage for lifting plant directly onto the tram would greatly reduce the risk of injury.



16. Lighter Gas Bottles (*Philip Thomas*)

Existing gas bottles are heavy and not always easy to lift. By looking at the market, smaller bottles with more ergonomically effective handles were identified.