



Southern Shield

Good/ Best Practice feedback

Nature of works

Plant and equipment

Date of good practice note

4/08/2020

Use of Mobiflex 200 extraction when welding



Description of the good practice

During structural steelwork strengthening works to be carried out the underside of the parcel deck at Euston station, there was the requirement to weld a series of stiffeners and haunches to the existing station steelwork.

During the planning stages and site walk with Skanska Engineers/ KCSL site management there were some concerns raised on the fumes generated by the welding activities as these are hazardous to health and difficult to manage, particularly in a busy station environment with multiple stakeholders. Therefore, several control measures were considered including extraction or ventilation methods such as the use of air movers, fixed extraction systems or programming the works to nights.

After consulting suppliers, KCSL proposed to use a Lincoln Mobiflex 200 extraction system which is a versatile extraction/ filtration system which can be used instead of the more conventional methods

What are the benefits?

- Lightweight (essential for working on the tractor ramp due to weight restrictions)
- Compact and small enough to allow the ramp to be fully operational
- Removable and filtered fumes
- Allows works to be undertaken in locations where there is reduced access and reduces and most requirement for high risk works. (Scaffolding, Demolition of concrete wall and reinstatement of the wall)
- Easy to move (multiple columns to be carried out)
- Reduced need for fixing of extraction system and interface this may have with other works after works complete

- Low noise output
- 110v supply required comparable to other models 415v requirement
- 360 adjustable nozzle/ head to allow for flexible working locations.

Are there any drawbacks?

N/A

Supporting Information

- Supplied by KSL

Please send completed forms back to shield@networkrail.co.uk