



Form Ref: HSI-10	Independent Health & Safety Inspection – Blue Star Item	Version: 3.0 Jan 2017
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	Awarded for Exceptional Performance or New Initiative not widely used on other sites
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Project	Principal Contractor (PC)	Date of Inspection
M6 J16-19	Carillion Kier JV (CKJV)	08/02/17
Site Contact	Email Address	Telephone Number
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Description of Blue Star Item	<p>1. Plant Person Interface. A gate system is used to stop / slow vehicles on the approach to work areas, using boards with interchangeable messages. The site also uses the 'Skipper' retractable tape system as an additional demarcation of exclusion zones, to warn pedestrians approaching work areas.</p> <p>2. The site has two new JCB Hydradig machines on site. A Hydradig operator spoken to was very impressed with the machine and found it much safer to use than a traditional machine.</p> <p>3. The CKJV has been working closely with Prolec and their sub-contractors to fit the Prolec Height and Slew restrictors to all plant on site. In addition the CKJV is also using 2 lorry mounted MEWPS fitted with slew restrictors to prevent the risk of them basket or boom swinging out over the live carriageway and coming into contact with MoP road users.</p>
Benefits of Blue Star Item	<p>1. By adopting a 'suite' of documented and pictorial methodology of where skipper units are positioned, the site can maintain consistent standards enabling everyone to recognise and understand the process.</p> <p>2. JCB Hydradigs have much improved visibility for the operator, with the ability to see all four wheels and a 1m perimeter around the machine at ground level. They also have improved stability, manoeuvrability, mobility and serviceability.</p> <p>3. This system helps prevent excavator booms/buckets. MEWP baskets/booms coming into proximity with vehicle barriers, MoP road users and site personnel</p>
Details and Cost of any Specific Product	This would have to be negotiated with the individual provider/supplier/hire company

Photograph



Stop boards and 'Skipper' tape on approach to work areas

Photograph

CKJV
18/19

Central Reservation Works

Scenario 1: How skipper units should be used with one excavator – for example an excavator excavating and loading

1. Access safety gates should be set up to define the overall works zone. The gate must be placed centrally within the closed lane.
2. All pedestrians, plant and vehicles must wait at the gate until the ganger authorises entry to the work zone.
3. Skipper units should be set up to define the machines/excavators work zone. The skipper tape must be extended across the full width of the central reserve – mid-lane to mid-lane.
4. The position of the skipper tape must be a minimum 3m away from the furthest reach of the machine/excavator. The access safety gate must be a minimum 3m beyond the skipper tape.
5. Machine works cannot begin until a designated machine work zone has been established.
6. Whilst the machine/excavator is working there should only be one person (the ganger) within the machine/excavator work zone. The ganger controls the excavator and must have complete control of who enters the machine/excavator work zone. The ganger must remain a minimum 3m away from the furthest reach of the machine/excavator whilst the machine is working.
7. Whilst the machine is working all other operatives will remain outside the machine/excavator work zone.
8. If operatives are required to enter the machine/excavator work zone then the ganger must stop all machine activity. The excavator driver will apply the 'deadman'. Once the area is safe the ganger will remove the skipper unit to allow the operatives to enter. Once the activity has been completed and the operatives have left the machine/excavator work zone then the ganger can replace the skipper unit and machine works can restart.
9. Small plant may need to access the machine/excavator work zone. Again the ganger will stop all machine activity and the driver will apply the 'deadman'. Once safe the ganger can remove the skipper unit to allow the small plant to access the area. In circumstances involving loading small plant then the driver of the small plant must dismount and exit the machine/excavator zone. Once the driver has exited the machine/excavator zone then the ganger can allow the excavator to begin loading.
10. If a vehicle needs to pass through the work zone they will be stopped at the access safety gate. The ganger will be informed of the vehicle by the gateman. Once it is appropriate to do so the ganger will stop all plant movement. Once safe the ganger can inform the gateman to remove the gate. The ganger must remove the skipper unit themselves. Once the vehicle has passed through the work zone then the skipper units can be replaced and the ganger can allow the excavator to continue works.

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18/19

Central Reservation Works

Scenario 1: Indicative sketch to show how skipper units should be used with one excavator – for example an excavator excavating and loading

All pedestrians, plant and vehicles must wait here until the ganger authorises entry

All pedestrians, plant and vehicles must wait here until the ganger authorises entry

Notes and Diagrams showing use of stop boards and skipper tape for different working scenarios

Photograph



New JCB Hydradig machine providing good all round visibility

Photograph



Prolec height and slew restrictor system fitted to plant