

CHANGING CONVEYANCES FROM HOISTING MEN TO HOISTING ROCK AND VICE VERSA

Men are normally hoisted in cages but may also be transported in skips. If the winder has been hoisting men and it is now required to hoist rock, the conveyances must be changed. There are 2 methods used to change conveyances in a vertical shaft and they are explained below: -

VERTICAL SHAFT

The bridle is an integral part of the conveyance.

In this method the onsetter assist the banksman on the bank.

The driver must: -

Receive a special signal or an entry will be made in the driver logbook by the banksman.

Receive the signal 4-2 from the banksman.

Lower the cage slowly.

Stop the cage when signalled 1 by the banksman.

Reply the signal 7 to the banksman.

The onsetter and his helpers will unlatch the swing guides and move them to the open position. The traverse is moved into position by the banksman.

The driver must: -

Receive the signal 4-1 from the banksman.

Stop the conveyance when signalled 1 by the banksman.

Acknowledge the signal 1 to banksman.

The cage is now in position to be secured to the slings suspended from the traverse.

The driver must: -

Receive the signal 4-2 from the banksman.

Stop the cage when signalled 1 by the banksman.

Acknowledge the signal 1 to the banksman.

The onsetter clamps the winding rope in the headgear to prevent rope spin.

The onsetter detaches the humble hook from the conveyance (split pin, bolt and nut).

The onsetter and his helpers will swing the cage out of the way and move the skip into position.

The onsetter secures the humble hook to the skip (bolt, nut and split-pin). The onsetter removes the clamp from the rope.

The driver must: -

Receive the signal 4-1 from the banksman.

Raise the skip slowly.

Stop when signalled 1 by the banksman.

Acknowledge the signal 1 to the banksman.

Receive the signal 4-2 from the banksman.

The banksman and his helpers guide the skip into the shaft guides while the skip is being lowered.

The driver must: -

Stop the skip when signalled 1 by the banksman.

Acknowledge the signal 1 to the banksman.

The Banksman will stop the driver when the top of the skip is level with the bank. The onsetter and his helpers will latch the swing guides in the closed position and insert the safety pins.

The driver must: -

Acknowledge the signal 7-7 to the banksman.

Receive the call over and clear signal from the banksman.

Position the other conveyance at the bank.

The same procedure will be followed to change the other conveyance.

(ii) VERTICAL SHAFT

(a) The conveyance is removed from the bridle.

The onsetter does not assist the banksman in this procedure.

The driver must: -

Be informed by the banksman that changing from cages to skips will take place, e.g. a special signal or an entry will be made in the driver logbook.

Receive the clear signal 2-2 from the onsetter.

Reply the signal 7 to the banksman.

Receive the signal 4-1 from the banksman. The banksman will remove the securing pins from the cage and secure a special sling to the bottom of the cage.

The driver must: -

Receive the signal 4-1 from the banksman.

Raise the cage slowly.

Stop the winder when signalled 1 by the banksman.

Acknowledge the signal 1 to the banksman.

The banksman will stop the cage when it is in such a position that the other end of the special sling can be secured to a shackle connected on to the bank.

The driver must: -

Receive the signal 4-2 from the banksman.

Lower the cage slowly.

Stop the conveyance when signalled 1 by the banksman.

The banksman and his helpers guide the cage onto a flat car while it is being lowered. The cage is then moved away and the skip moved into position in the bridle.

The banksman will remove the special sling from the bottom of the cage and secure it to the bottom of the skip.

The driver must: -

Receive the signal 4-1 from the banksman.

Raise the skip slowly.

Stop when signalled 1 by the banksman.

Reply the signal 1 to the banksman.

The banksman will disconnect the sling from the shackle on the bank.

The driver must: -

Receive the signal 4-2 from the banksman.

Lower the skip slowly.

Stop the conveyance when signalled 1 by the banksman.

Reply the signal 1 to the banksman.

The banksman remove the end of the special sling from the bottom of the skip and secure the safety pins on the skip.

The driver must: -

Acknowledge the signal 7-7 to the banksman.

Receive the call over and clear signal from the banksman.

Raise the other conveyance to the bank.

Follow the same procedure to change the other conveyance.

(INCLINE SHAFTS

To change conveyances in an incline shaft,

The driver must: -

Be notified that the conveyances are about to be changed, e.g. special signal or he will make an entry in the driver logbook.

Receive a clear signal 2-2 from the onsetter.

Receive the signal 4-1 from the banksman.

Raise the giraffe slowly. (The giraffe will be in a position above the drop sets).
Stop when signalled 1 by the banksman.
Acknowledge the signal 6-6 from the banksman.
The banksman will lower the drop sets into the shaft.

The driver must: -

Acknowledge the signal 6-6-6 from the banksman.
Receive the signal 4-2 from the banksman. (The driver will ensure himself by means of pilot lights on the footplate the position of the drop sets whether it is in or clear of the shaft).
Lower the giraffe slowly on to the bank.
Stop the giraffe when signalled 1 by the banksman.
Reply the signal 7 from the banksman.

The banksman will clamp the winding rope to a chain sling shackled on the bank and disconnect the rope from the giraffe, connect the skip to the rope and remove the clamps from the winding rope.

The driver must: -

Acknowledge the signal 7-7 from the banksman.
Receive the signal 4-1 from the banksman.
Raise the skip slowly. (a position above the drop sets).
Stop the skip when signalled 1 by the banksman.
Acknowledge the signal 6-6 from the banksman. (The banksman will raise the drop sets clear of the shaft).
Acknowledge the signal 6-6-6 from the banksman.
Receive call over and clear signal from the banksman.
Raise the other giraffe to the bank.
Stop above the drop sets on the signal 1 from the banksman.

Follow the same procedure as described above to change the other conveyance.