Headcover Installation Instructions

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This standard working procedure has been prepared to help all team members to work as safely as possible. This procedure is a minimum standard required.

Note: This procedure has been written in the most general form possible. Care must be taken to evaluate every situation individually.

REQUIREMENTS

GENERAL:

- All applicable laws and regulations will be followed while performing this job.
- All applicable mine site specific rules and regulations will be followed while doing this job.
- The workers doing this job have been previously trained to:
    I. Work safely in an underground environment, select and use personal protective devices, safety signs, fire extinguishers and the appropriate hand tools.
    II. Protect self and others in underground mines and recognize: loose and/or abnormal ground conditions and faulty ground-support.
    III. Scale loose rock, prepare the rock face, select, repair and fasten hoses.
    IV. Individuals undergoing training in the required prerequisites must be accompanied by a trained individual.

JOB SPECIFIC:

- The workers performing this procedure have been previously trained to:
    I. Safely handle rock drill oil
    II. Safely handle resin cartridges (WHMIS)
    III. Drill holes with a rock drill
    IV. Install ground support (re-bar)
    V. Determine the safe loading capacity for rigging gear and rig accordingly
    VI. Use the equipment that is available to place the headcover
- Clear communications must be verified between the tugger site and bottom of the raise if the headcover is to be lifted from a location other than the break-through site.

HAZARDS:

- Compressed air can cause serious injuries and care should be taken when working around it

- Compressed air hoses must be properly maintained and connected. A whipping air line can cause serious or fatal injuries.
- The break-through area of a raise is particularly dangerous due to the possibility of falling rock. Hearing protection should be removed when working in this area. The time spent near to the raise opening must be limited.

- If the work that is to be performed will take longer than one shift it is recommended that the headcover is deflated between shifts (strongly recommended if blasting operations are on-going nearby).

- All noise generating activities must be stopped while installing the headcover and while working under the headcover.

- **The headcover to be used must be the correct size for the raise**. The diameter range that is suitable for the installation of the headcover is from the rated diameter down to two feet less than the rated diameter. ***Under no circumstance is the headcover to be used in a openings that are larger than the rated diameter of the headcover.**

PROCEDURE:

1. Check scale and clear site area:
   - ✓ The area around the top of the raise and all access ways to the raise must be well scaled and blown clean.
   - ✓ The brow area around the raise breakthrough must be well scaled and ground support installed as required.
   - ✓ All remaining cuttings and loose rock must be removed from the breakthrough area.

2. Place lighting at the bottom of raise, if possible:
   - ✓ Adequate to create good visibility for all further work to be performed.

3. Determine the lifting method to be used:
   - ✓ Using a tugger winch from the top of the raise or an access point in the raise
   - ✓ Using a drilled hole from the breakthrough area and a cable passed through it. This hole must be drilled at a 45 degree angle to the horizontal and on azimuth that will intersect the center line of the raise. Depending on the circumstance the drilled hole will intersect the raise at least 60 feet up it.

   **If passing a cable through a drilled hole it must be at least ½ inch in diameter or larger to protect from abrasion at the intersection of the drilled hole and the raise.

4. Lower the cable to the raise bottom:
   - ✓ Lower an extra 30 feet of cable

5. Using a long hook retrieve the cable from under the raise:
    - ✓ Do not enter the area under the raise
6. Move the inflatable headcover into position near to the bottom of the raise:
    - ✓ Not under the raise
    - ✓ Removing all ropes and shipping binding

7. Attach a 50 foot, one inch air line to the headcover.

8. Connect the lifting cable to the lifting attachment on the inflatable headcover:
    - ✓ Ensure that the lifting straps will not foul when lifting commences.

9. Lift the bulkhead into place in the raise:
    - ✓ As per drawing
    - ✓ Care must be taken not to damage the headcover on screen or any other sharp edges
    - ✓ The bulkhead must be installed a suitable distance up the raise to allow the headcover to slide while absorbing an impact.

10. Connect the regulator to the mine air and to the air line on the headcover.

11. Inflate the headcover:
    - ✓ The regulator pressure gauge must indicate **1. psi.min**.

12. Lower 10 to 30 feet of slack (depending on the circumstances) cable into the raise.

13. Perform the work that is required.

14. Re-snug the cable to support the headcover.

15. Deflate the headcover.

16. Lower the headcover.
    - ✓ Pull it out from under the bottom of the raise.

17. Inspect and document damage to the headcover.

18. Disconnect and stow the headcover for shipping to ROCVENT for testing/repair after each use.

19. Lift the reamer back into the raise, if required.

20. Barricade and rope off all access to the raise.