

MANUAL TASKS

OBJECTIVE:

The objective is to prevent harm due to manual tasks during installation, maintenance and operations of equipment, to ALARP, including consideration in design for foreseeable human error

GENERAL OUTCOME:

The intended design outcome should eliminate the need for manual tasks associated with equipment installation, operation and maintenance

Where elimination cannot be achieved, the intended design outcome should include consideration of

- Ergonomic positioning
- Use of tools that minimise exposure to injury risks
- A process for knowledge transfer about the effective and efficient use of task specific (OEM) tools



Potential Unwanted Events (PUEs)

7.1 Musculoskeletal injury from exposure to the following risk factors or combinations thereof:

- a. forceful exertion
- b. awkward or static posture
- c. repetition or prolonged duration
- d. Hand arm &/or whole body vibration due to manual tasks associated with installing, operating and maintaining the equipment.

SURFACE



UG COAL



UG HARD ROCK

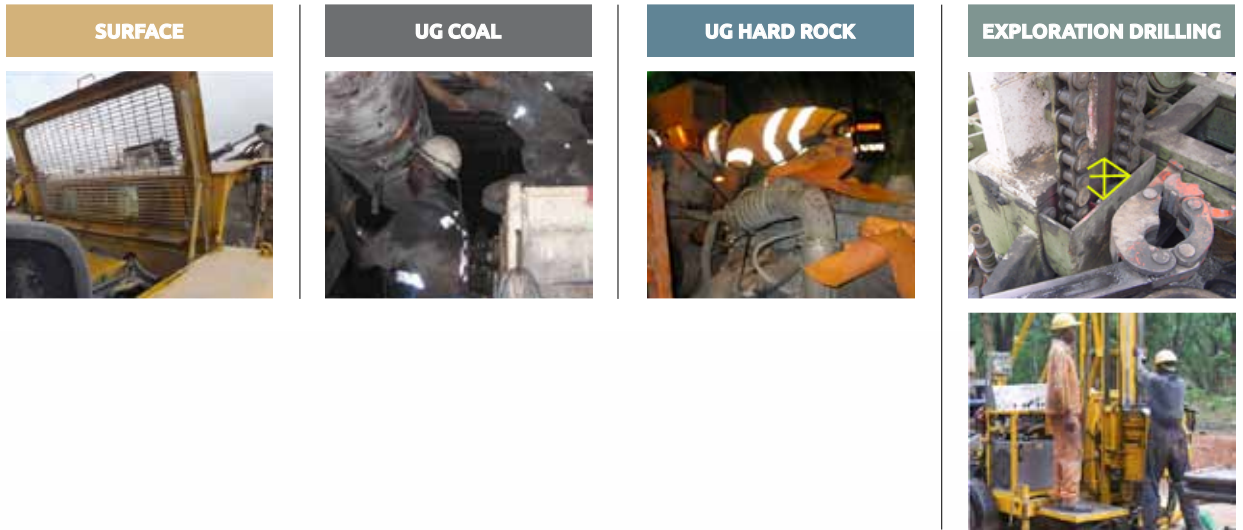


EXPLORATION DRILLING



Potential Unwanted Events (PUEs)

7.2 Crush injury occurring during operation and maintenance tasks due to poorly designed crush and pinch point locations.



Potential Unwanted Events (PUEs)

7.3 Injury occurring during operation and maintenance tasks (e.g. falling material, handling liquids, machine consumables and spillage) due to no/inadequate design for these activities.



Potential Unwanted Events (PUEs)

7.4 Injury resulting from slips, trips and falls due to
 a. uneven, work surfaces or platforms
 b. premature failure of components due to inadequate protection from corrosion



Potential Unwanted Events (PUEs)

7.5 Injury due to inappropriate access and/or egress.

SURFACE



UG COAL



UG HARD ROCK



EXPLORATION DRILLING



Potential Unwanted Events (PUEs)

7.6 Injury due to use of inappropriate tools for manual tasks associated with installing, operating and maintaining the equipment.

SURFACE



UG COAL



UG HARD ROCK



EXPLORATION DRILLING



Potential Unwanted Events (PUEs)

7.7 Injury during handling of equipment components due to:

- a. excessive weight and/or
- b. lack of suitable lifting points or hand holds combined with awkward positioning

SURFACE



UG COAL



UG HARD ROCK



EXPLORATION DRILLING

