DP - 1

ACCESS & WORKING AT HEIGHTS

OBJECTIVE:

The objective is to prevent harm related to access & working at heights (where there is a risk of falling at least 6' (1.8m) or if serious injury may result) on equipment; to prevent slip/trips, sprains/strains, falls from height and failure to egress in emergency events to ALARP, including consideration in design for foreseeable human error.

GENERAL OUTCOME:

The intended design outcome should include/consider the following:

- Stairways, walkways, access & work platforms, railings, steps/grab handle combinations and boarding facilities including an alternate path for disembarking in case of emergency
- Ergonomically considerate access systems that allow three points of contact to be maintained and minimise the risk of sprain or strain
- Access systems and work platforms that are well lit, located and designed to minimise their impact on operator vision, and clear of fall, slip and trip hazards
- Openings designed to account for body size variability, escape apparatus and personal protective equipment (PPE)
- A priority outcome would also be ground entry to access on driver's side, with the opportunity to locate isolation and other service points (hydraulic, air) near the driver's side operator access
- Location of service points, inspection points and ancillary equipment that eliminates the need to work at heights, during routine maintenance or repair
- Provision of work platforms with suitable controls to eliminate the need to work at height and prevent the risk of tools and other objects falling onto people below
- Where it is impractical to provide equipment mounted work platforms, the design of appropriate roll up access & work platforms or other means for workshops

Where the need to work at heights cannot be eliminated:

- Provision of fit for purpose anchor points or static lines (appropriate for PPE/rescue systems)

EMESRT

Potential Unwanted Events (PUEs)

1.1 Injury during access to equipment and its routine service and inspection points, work platforms and operator workstation due to poor location of service and inspection points, lack of fall from height protection, premature failure of components due to corrosion, slippery surfaces, accumulation of dirt or other material, or poorly lit environment

SURFACE	UG COAL	UG HARD ROCK	EXPLORATION DRILLING
			
			
			
			
			

Potential Unwanted Events (PUEs)

1.2 Sprains and strains during access to equipment due to the need to adopt ergonomically difficult body positions to negotiate the designed access point or system.

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Potential Unwanted Events (PUEs)

1.3 Harm due to entrapment or obstruction should normal access be blocked by fire (including tire heating) or machine damage.

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Potential Unwanted Events (PUEs)

1.4 Harm from materials falling off platforms on to persons below.

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Potential Unwanted Events (PUEs)

1.5 Injury caused by fasteners, brackets, hoses and fittings that protrude into the walkways and work areas.

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Potential Unwanted Events (PUEs)

1.6 Injury from falls caused by using chains as part of the handrail or ladder opening protection.

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EXPLORATION DRILLING

Potential Unwanted Events (PUEs)

1.7 Injury from collisions due to restricted operator vision from the cabin due to machine access and platform structures, and/or their location.

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