



VUL-SWP-072a-001- Selection & Procurement

STANDARD WORK PROCEDURE (SWP)	
Description	Selection & Procurement
Site	Vulcan Mine
Department	Maintenance – Tyres
Purpose	The purpose of this SWP is to provide a documented way of working to achieve an acceptable level of risk. The steps outlined pertain to the titled task only. All other SHMS requirements such as SOPs must be followed e.g.: VUL-SOP-065-PPE, VUL-SOP-089-Dust etc.
1. Selection & Procurement	
The selection and procurement of tyre, wheel and rims shall be made by authorised personnel, who are suitably qualified and competent to do so. The site Tyre and Rim Register is to be utilised for procuring tyre, wheel and rims used on Vulcan Mine to ensure specifications are appropriate for the intended application for each asset. (i.e., ‘fit for purpose’, capable of performing the task safely). The expected operational conditions for tyre, wheel and rims must fall within the technical specifications and recommendations of the tyre manufacture or OEM. Replacements must be of the same size and rating specified for the for the intended application (i.e., plant) Whenever practical, each size of multi-piece rims should be purchased from a single OEM to reduce the risk of parts being accidentally mismatched. The VUL-PLN-002-Change Management process shall apply where an application falls outside the OEM recommendations and authorised by the SSE. Tyres which do not contain a serial number or unique identification number can only be mounted when the history of the tyre can be verified. If the history cannot be verified, the tyre, wheel and rim must not be selected or procured. A TPMS should be considered when purchasing new mobile equipment. All tyres, wheels and rims being procured shall be recorded on the Tyre and Rim Register against each asset.	
2. Other Considerations	
Other considerations when selecting and procuring, tyre, wheel, and rims, include: - Tooling requirements, including tyre handlers, especially if different from those presently in use - Unique identifier, branding of tyres, stamping of wheels or rims for tracking and recordkeeping (in protected places on the wheel or rim to retain legibility) - Wheel, rim, components, and tyre supply guidelines such as: - How the wheel, rim, components, and tyres are packaged for transport - Rim identification nomenclature; and - Wheel, rim, and component colour coding. - Choice of modern ‘safer’ designs, for instance: - Bead seat band designs (for certainty of lock ring correct fitment and retainment) - Double gutter rims (for reduction of hazard exposures such as vibration and manual handling when replacing tyres in duals); and	



- Two-piece lock rings eliminate sprung potential energy, minimise manual handling and line of fire risks (these many also have lock ring retainers, bolted connectors).
- If the tyres are regroovable, able to be retread or repairable
- Reconditioned tyres may have speed or load restriction and may only be fitted to certain positions on the plant
- Acceptance of wheel and rim components and wheel and rim assemblies, assembled off-site.
- Visitor and delivery vehicles – associated risk have been deemed to be addressed by the wide variety of standards and statutory requirements that govern the safe construction and use of vehicles on Queensland roads for travel to site; and
- Mobile or fixed plant introduced by contractors.
- Used tyres and rims brought to Vulcan Mine must have suitable compliance certification documentation (e.g., work and maintenance history); and
- Minor plant with wheels (e.g., wheelbarrows, trolleys etc)
 - Small tyres should be solid (filled), eliminating the requirement for inflating
 - Small tyres requiring inflating shall have the maximum inflation pressure embossed on the tyre
 - Small tyres requiring inflating shall have the maximum inflation pressure checked prior to inflating

3. Items to be Supplied to Site

When selecting and procuring, tyre, wheel and rims, other items to be supplied to the site should include:

- The OEM or supplier's recommended tyre pressure, wheel or rim fastener torque settings and any dispensation (this assists the Vulcan Mine to develop a wall chart for relevant personnel information)
- The OEM or suppliers 'reasons for removal' of a tyre, wheel, or rim (posted wall chart)
- Guidance on management of fasteners (reference manufacturer's guidance when considering the effects of broken or missing fasteners)
- Maintenance requirements during the life of the wheel or rim in accordance with *AS 4457.1 references the types of inspection and tests, for earthmover wheels and rims.*