

BI-02A.44 Battery specifications are detailed for mobile equipment

(Accountable - Engineering Manager (Site) (Unassigned))

Expectations

Sites have specifications for batteries that start mobile equipment and feed other power circuits.

Specify

Specifications cover battery integrity during operation, ease of access for testing/maintenance and isolation.

Design requirements for batteries that start mobile equipment and feed other power circuits:

- Secure and protect from mechanical damage.
- Ventilated space for non-sealed batteries
- Vapours cannot accumulate in places that operators can occupy
- Provide a drain path for fluids to escape so that other equipment components are protected from battery liquid spillage
- Battery containers are resistant to chemical effects
- Battery terminals are protected from contact by covers, shrouds etc.
- There is a starter isolator for live testing or system diagnostics
- Operators are protected from battery spillage in event of a roll over

References

- Section 4.5.3. of ISO 19296 Mining - Mobile machines working underground - Machine Safety First edition 2018-11

Implement

Specifications are used in equipment selection and nomination (for third party plant) prior to plant arriving on site.

Monitor

Introduction to site processes confirm that site requirements/specifications are in place for plant intended for use on the site.