

BI-02A.46 Fire suppression specification for mobile equipment

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

Expectations

Equipment should be specified and sourced which includes provision for fire suppression installation, operation and maintenance to meet site requirements.

Specify

Fire suppression system design:

- OEM shall provide space for fitting fire suppression systems on all mobile equipment
- The need for a fire suppression system is determined by equipment design, how it operates and its operating environment e.g. if all surface temperatures are below 150 °C then fire suppression systems may not be required
- Fitted fire suppression system must cover identified high risk areas and be able to be actuated from the equipment cabin
- When a fire suppression system is actuated the engine and all energy sources shall shut down automatically (may be after a time delay as agreed by the fire suppression system manufacturer).
- If single conductor cables are used, they shall be designed and installed to avoid induced current from magnetising fields resulting in dangerous heating in the metallic frame of the machine
- For equipment operating in coal mines, there should be an operator warning alarm if the air being discharged from the air compressor exceeds 150°C

References:

- Section 4.13 of ISO 19296 Mining - Mobile machines working underground - Machine Safety First edition 2018-11

