

CFM-DE-04 Excessive heat is produced and not effectively contained/shielded from fuel sources during mobile equipment operation - design weakness

During normal operations, there are accessible hot surfaces above the ignition temperature of probable fuel sources, including:

- Electrical failures such as jammed starter motors
- Overheated cables or faults such as a cable short
- Electrical fault around battery with damage to insulation, shorting of leads, and/or contact between live components and machine body
- Alternator faults
- Inappropriate cable routing proximate to flammable materials/fuels
- Engine faults e.g. running backwards

This Credible Failure mode is addressed by:

- 🛡️ BI-01.52 Skilled and experienced personnel are accountable for selection of mobile equipment
- 🛡️ BI-02A.01 Fit for purpose equipment selection processes - General
- 🛡️ BI-02A.03 Fit for purpose equipment selection processes - Electrical Systems
- 🛡️ BI-02A.47 Fuel and exhaust specifications are detailed for mobile equipment
- 🛡️ BI-02A.48 Flammable liquid line specifications are detailed for mobile equipment
- 🛡️ BI-02A.57 Capacitors or batteries are selected to minimise the ignition risk
- 🛡️ BI-02A.58 Ceramic coatings for exhaust components