Federal Aviation Administration, DOT

§ 25.1725 Powerplants: EWIS. 

(a) EWIS components associated with any powerplant must be designed and installed so that the failure of an EWIS component provided by EWIS components must provide an electrical return path capable of carrying both normal and fault currents without creating a shock hazard or damage to the EWIS components, other airplane system components, or airplane structure.

§ 25.1717 Circuit protective devices: EWIS. 

Electrical wires and cables must be designed and installed so they are compatible with the circuit protection devices required by § 25.1337, so that a fire or smoke hazard cannot be created under temporary or continuous fault conditions.

§ 25.1719 Accessibility provisions: EWIS. 

Access must be provided to allow inspection and replacement of any EWIS component as necessary for continued airworthiness.

§ 25.1721 Protection of EWIS. 

(a) No cargo or baggage compartment may contain any EWIS whose damage or failure may affect safe operation, unless the EWIS is protected so that:

(1) It cannot be damaged by movement of cargo or baggage in the compartment.

(2) Its breakage or failure will not create a fire hazard.

(b) EWIS must be designed and installed to minimize damage and risk of damage to EWIS by movement of people in the airplane during all phases of flight, maintenance, and servicing.

(c) EWIS must be designed and installed to minimize damage and risk of damage to EWIS by items carried onto the aircraft by passengers or cabin crew.

§ 25.1723 Flammable fluid fire protection: EWIS. 

EWIS components located in each area where flammable fluid or vapors might escape by leakage of a fluid system must be considered a potential ignition source and must meet the requirements of § 25.863.

§ 25.1725 Powerplants: EWIS. 

(a) EWIS associated with any powerplant must be designed and installed so that the failure of an EWIS component