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- (2) If an EWIS component cannot be marked physically, then other means of identification must be provided.
- (c) The identifying markings required by paragraphs (a) and (b) of this section must remain legible throughout the expected service life of the EWIS component.
- (d) The means used for identifying each EWIS component as required by this section must not have an adverse effect on the performance of that component throughout its expected service life.
- (e) Identification for EWIS modifications to the type design must be consistent with the identification scheme of the original type design.

§25.1713 Fire protection: EWIS.

- (a) All EWIS components must meet the applicable fire and smoke protection requirements of §25.831(c) of this part.
- (b) EWIS components that are located in designated fire zones and are used during emergency procedures must be fire resistant.
- (c) Insulation on electrical wire and electrical cable, and materials used to provide additional protection for the wire and cable, installed in any area of the airplane, must be self-extinguishing when tested in accordance with the applicable portions of Appendix F, part I, of 14 CFR part 25.

§ 25.1715 Electrical bonding and protection against static electricity: EWIS.

- (a) EWIS components used for electrical bonding and protection against static electricity must meet the requirements of §25.899.
- (b) On airplanes having grounded electrical systems, electrical bonding 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 de-

vices required by §25.1357, so that a fire or smoke hazard cannot be created under temporary or continuous fault conditions.

§ 25.1719 Accessibility provisions:

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 will not prevent the continued safe operation of the remaining powerplants or require immediate action by any crewmember for continued safe operation, in accordance with the requirements of §25.903(b).
- (b) Design precautions must be taken to minimize hazards to the airplane due to EWIS damage in the event of a powerplant rotor failure or a fire originating within the powerplant that burns through the powerplant case, in