

ASTM F2316 Proposals

Proposed Changes resulting from an accident investigation by the NTSB.

BACKGROUND

F2316 governs "Airframe Emergency Parachutes"

- Provides guidance on product marking related to placement and appearance of warning placards/labels
- The stated goal is to place warning placards/labels where occupants and first responders can readily identify the presence of an explosive device

SPECIFIC CONCERNS

Current ASTM F2316 guidance seems confusing and insufficient with respect to the three different required placards with similar information.

- Danger Placard (11.2.2.1) –
 - One placard for interior chute installation - egress point
 - One placard for exterior chute installation – on extraction device
- Identifying Placard (11.2.2.2) – body of extraction device
- Warning Placard (11.2.2.3) – adjacent to doors or places where occupants enter the aircraft or where rescue personnel can readily see it

Post-crash aircraft attitude/condition has been encountered where the installation of a rocket/chute is obscured from first responders

- Most/all placards (even if installed per current guidance) have not been visible
- The sample label Fig. X1.3 does not convey the “danger” associated with the rocket – there is only a “warning” provided
- Uneducated efforts to examine aircraft could result in unintentional rocket activation

PROPOSED CHANGES

- Create a single “danger” placard to be used on the extraction device and on multiple locations on the aircraft where occupants and first responders can readily identify the presence of an explosive device.
- This placard should convey the “danger” associated with the rocket – as shown in the sample identifying label Fig. X1.2 - using an image of a rocket is preferable to an image of an aircraft suspended by a chute, as well as using the term “danger” in lieu of “warning.” This placard should include all of the manufacturer’s information currently shown in Fig. X1.2. It is also suggested to include a specific label “This aircraft is equipped with a ballistically-deployed emergency parachute system” to be used with the placard when applied to multiple locations on the aircraft and a specific label “Rocket Deployed Parachute Egress Area – STAY CLEAR” to be used with the placard for the specific egress location, if enclosed.
- Add requirement that the PIM (ref. 11.2.1) will identify installation of the placard on the extraction device, installation of the placard on multiple locations on the aircraft with the appropriate label to include the left, right, top, and bottom and installation of the placard with appropriate label to the specific egress location, if enclosed.