



Designation: F3262 – 17

Standard Classification System for Small Unmanned Aircraft Systems (sUASs) for Land Search and Rescue¹

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1. Scope

1.1 This classification defines small Unmanned Aircraft System (sUAS) land search and rescue resources in terms of their capabilities.

1.1.1 This classification is not intended to classify small UAS utilized in urban search and rescue.

1.1.2 This classification is not intended to classify small UAS utilized in disaster response.

1.2 The classifications in this standard are intended to aid emergency managers ordering resources for search and rescue incidents. These classifications provide a means by which resource managers and sUAS pilots/operators can convey to emergency management the tasks for which their systems are capable of performing.

1.2.1 This classification is designed for incidents at the local and state level and is not intended to encompass federal or military resources.

1.3 This classification does not define standards of performance or training for sUAS systems and operators engaged in search and rescue.

1.3.1 Guides that address the general airworthiness of sUAS systems are under the jurisdiction of ASTM Committee F38 on Unmanned Aircraft Systems and are the direct responsibility of Subcommittee F38.01 on Airworthiness.

1.3.2 Guides that address the general flight operations of sUAS systems are under the jurisdiction of ASTM Committee F38 on Unmanned Aircraft Systems and are the direct responsibility of Subcommittee F38.02 on Flight Operations.

1.3.3 Guides that address the general training, qualifications, and certifications of sUAS personnel are under the jurisdiction of ASTM Committee F38 on Unmanned Aircraft Systems and are the direct responsibility of Subcommittee F38.03 on Personnel Training, Qualification and Certification.

1.3.4 Guides that specifically address sUAS standards for personnel training and operations in the specific attributes for

¹ This classification is under the jurisdiction of ASTM Committee F32 on Search and Rescue and is the direct responsibility of Subcommittee F32.01 on Equipment, Testing, and Maintenance.

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land search and rescue will fall under the jurisdiction of ASTM Committee F32 on Search and Rescue and will remain compliant with those standards prepared by ASTM Committee F38 on Unmanned Aircraft Systems.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

F3222 Terminology Relating to F32 Land Search and Rescue Standards and Guides

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions of terms used in this classification, refer to Terminology F3222.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *CTOL, n*—sUAS capable of conventional takeoff and landing.

3.2.2 *STOL, n*—sUAS requiring short runway requirements for takeoff and landing.

3.2.3 *VTOL, n*—sUAS that can hover, takeoff, and land vertically.

3.2.4 *category, n*—specific task for which a sUAS land search and rescue resource is capable.

3.2.5 *kind, n*—subset of some sUAS land search and rescue resource categories.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.