



Designation: **F3377–19** **F3377 – 20**

Standard Terminology Relating to Commercial Spaceflight^{1,2}

This standard is issued under the fixed designation F3377; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This terminology standard is a compilation of definitions of terms used by ASTM Committee F47 on Commercial Spaceflight.

1.2 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.3 *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. Terminology

2.1 Terms and Definitions:

berthing, *n*—the process of mating of two separate free-flying space vehicles where a passive vehicle's mating interface is guided into that of another vehicle by means external to the passive vehicle.

docking, *n*—the process of joining of two separate free-flying space vehicles where an active vehicle's mating interface is guided into that of another vehicle by means integral to the active vehicle.

occupied vehicle, *n*—a vehicle that contains humans.

orbital vehicle, *n*—a vehicle that is designed to achieve a trajectory where it could remain in space for at least one orbit of the Earth.

spaceport, *n*—an area authorized by an appropriate authority to support launch or re-entry activities, or both.

suborbital vehicle, *n*—a vehicle that is not designed to achieve a trajectory where it could complete at least one orbit of the Earth.

unoccupied vehicle, *n*—a vehicle that does not contain humans.

¹ This terminology is under the jurisdiction of ASTM Committee F47 on Commercial Spaceflight and is the direct responsibility of Subcommittee F47.91 on Terminology. Current edition approved June 15, 2019 Aug. 1, 2020. Published June 2019 August 2020. Originally approved in 2019. Last previous edition approved in 2019 as F3377–19. DOI: 10.1520/F3377-19.10.1520/F3377-20.

² Pursuant to License Agreement with ASTM International (ASTM), Commercial Spaceflight Federation (CSF) contributed its technical expertise and content to ASTM leading to the development of this ASTM Standard.

3. Keywords

3.1 berthing; commercial spaceflight; definition; docking; occupied vehicle; orbital vehicle; suborbital vehicle; terminology; unoccupied vehicle

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