NFPA 101®-2021 Edition *Life Safety Code*® TIA Log No.: 1559 Reference: Section 4.6.13, A.4.6.13, 4.6.13.1, 4.6.13.2, 4.6.14, 4.6.14.1 (new), 4.6.14.2 (new) Comment Closing Date: March 15, 2021 Submitter: Chris Jelenewicz, Society of Fire Protection Engineers www.nfpa.org/101

1. Revise Section 4.6.13 and A.4.6.13 to read as follows:
4.6.13* Noncombustible Material.

A.4.6.13 The provisions of 4.6.13 do not require inherently noncombustible materials to be tested in order to be classified as noncombustible materials. [5000:A.7.1.4.1]

4.6.13.1

A material that complies with any <u>one</u> of the following shall be considered a noncombustible material:

- (1) *A-<u>The</u> material-that, in the form in which it is used, and under the conditions anticipated, will not ignite, burn, support combustion, or release flammable vapors when subjected to fire or heat.
- (2) A-<u>The</u> material-that is reported as passing ASTM E136, *Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C*.
- (3) A The material-that is reported as complying with the pass/fail criteria of ASTM E136 when tested in accordance with the test method and procedure in ASTM E2652, *Standard Test Method for Assessing Combustibility of Materials Using a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750°C*.

[5000:7.1.4.1.1]

4.6.13.2 Where the term *limited-combustible* is used in this *Code*, it shall also include the term *noncombustible*. [5000:7.1.4.1.2]

2. Revise Section 4.6.14 to read as follows:

4.6.14* Limited-Combustible Material. A material shall be considered a limited-combustible material where both one of the following are is met:

- (1) The material does not comply with the requirements for a noncombustible material in accordance with 4.6.13. The conditions of 4.6.14.1 and 4.6.14.2, and the conditions of either 4.6.14.3 or 4.6.14.4, shall be met.
- (2) The material, in the form in which it is used, exhibits a potential heat value not exceeding 3500 Btu/lb (8141 kJ/kg) when tested in accordance with NFPA 259. The conditions of 4.6.14.5 shall be met.

[5000:7.1.4.2]

4.6.14.1 The material does not comply with the requirements for a noncombustible material in accordance with 4.6.13. **[5000:**7.1.4.2.1]

4.6.14.2 The material, in the form in which it is used, exhibits a potential heat value not exceeding 3500 Btu/lb (8141 kJ/kg) when tested in accordance with NFPA 259. [**5000:**7.1.4.2.2]

4.6.14.13 The material shall have the <u>a</u> structural base of <u>a</u>-noncombustible material with a surfacing not exceeding a thickness of 1/8 in. (3.2 mm) where the surfacing exhibits a flame

spread index not greater than 50 when tested in accordance with ASTM E84, *Standard Test Method for Surface Burning Characteristics of Building Materials*, or UL 723, *Test for Surface Burning Characteristics of Building Materials*. [5000:7.1.4.2.13]

4.6.14.2<u>4</u> The material shall be composed of materials, that in the form and thickness used, neither exhibit a flame spread index greater than 25 nor <u>exhibit</u> evidence of continued progressive combustion when tested in accordance with ASTM E84 or UL 723 and are of such composition that all surfaces that would be exposed by cutting through the material on any plane would neither exhibit a flame spread index greater than 25 nor exhibit evidence of continued progressive combustion when tested in accordance with ASTM E84 or UL 723. [5000:7.1.4.2.24]

4.6.14.35 Materials shall be considered limited-combustible materials where tested in accordance with ASTM E2965, *Standard Test Method for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter*, at an incident heat flux of 75 kW/m² for a 20-minute exposure, and both the following conditions are met:

(1) The peak heat release rate shall not exceed 150 kW/m^2 for longer than 10 seconds.

(2) The total heat released shall not exceed 8 MJ/m^2 .

[**5000:**7.1.4.2.3<u>5</u>]

4.6.14.4 <u>**4.6.14.6**</u> Where the term *limited-combustible* is used in this *Code*, it shall also include the term *noncombustible*. [**5000**:7.1.4.2.4 <u>7.1.4.2.6</u>]

Substantiation: Criteria addressing noncombustible and limited-combustible materials are intended to be extracted from NFPA 5000, Building Construction and Safety Code. An oversight in the development of the 2021 edition of NFPA 101 resulted in differing language. The proposed TIA corrects the oversight that occurred during the regular revision process.

Emergency Nature: The standard contains an error or an omission that was overlooked during the regular revision process. The NFPA Standard contains a conflict within the NFPA Standard or within another NFPA Standard.

The criteria addressing noncombustible and limited-combustible materials need to be consistent between NFPA 101 and NFPA 5000.