



Tentative Interim Amendment

NFPA 502

Standard for Road Tunnels, Bridges, and Other Limited Access Highways

2011 Edition

Reference: 7.2, Table 7.2, and 7.3.1

TIA 11-1

(SC 10-10-6/TIA Log #983)

Pursuant to Section 5 of the NFPA Regulations Governing Committee Projects, the National Fire Protection Association has issued the following Tentative Interim Amendment to NFPA 502, *Standard for Road Tunnels, Bridges, and Other Limited Access Highways*, 2011 edition. The TIA was processed by the Technical Committee on Road Tunnel and Highway Fire Protection, and was issued by the Standards Council on October 20, 2010, with an effective date of November 9, 2010.

A Tentative Interim Amendment is tentative because it has not been processed through the entire standards-making procedures. It is interim because it is effective only between editions of the standard. A TIA automatically becomes a proposal of the proponent for the next edition of the standard; as such, it then is subject to all of the procedures of the standards-making process.

1. Revise Section 7.2 to read as follows:

7.2 Application.

7.2.1 For the purpose of this standard, factors described in 4.3.1 shall dictate fire protection and fire life safety requirements. The minimum fire protection and fire life safety requirements are based on tunnel length as categorized below. These minimum requirements, which are more fully described within this Standard, are summarized in Table 7.2.

- (1) Category X — Where tunnel length is less than 90 m (300 ft)
- (2) Category A — Where tunnel length is 90 m (300 ft) or greater
- (3) Category B — Where tunnel length equals or exceeds 240 m (800 ft)
- (4) Category C — Where the tunnel length equals or exceeds 300 m (1000 ft)
- (5) Category D — Where the tunnel length equals or exceeds 1000 m (3280 ft)

2. Add a new 7.2.2 as follows:

7.2.2 Table 7.2 identifies certain systems as “Conditionally Mandatory” for some tunnel categories. The determination (condition) of whether these systems are necessary or not shall be based upon an engineering analysis addressing the factors outlined in 4.3.1.

3. Add a new item to appear as the first entry in Table 7.2 as follows:

Tunnel Categories

Fire Protection Systems	NFPA 502 Sections	X <i>[See 7.2(1).]</i>	A <i>[See 7.2(2).]</i>	B <i>[See 7.2(3).]</i>	C <i>[See 7.2(4).]</i>	D <i>[See 7.2(5).]</i>
Protection of Structural Elements	7.3	CMR	MR	MR	MR	MR

4. Revise the first sentence in 7.3.1 to read as follows:

7.3.1 Where required by Table 7.2 or 7.2.2, acceptable means shall be included within the design of the tunnel to protect all primary structural concrete and steel elements in accordance with this standard in order to:

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(Note: For further information on NFPA Codes and Standards, please see www.nfpa.org/codelist)

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