

Memorandum from

CSA America
8501 East Pleasant Valley Rd.
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March 19, 2008

Erratum to

**American National Standard for
Compressed Natural Gas Vehicle Fuel Containers
ANSI NGV 2-2007**

The fourth edition of American National Standard for Compressed Natural Gas Vehicle Fuel Containers, NGV 2-2007, was recently published. There are errors in Table II, Test Requirements For Designs And Design Changes, the references were incorrect. Attached is a corrected page.

Erratum to American National Standard for Compressed Natural Gas Vehicle Fuel Containers, ANSI NGV 2-2007, March 19, 2008

Table II

Test Requirements For Designs And Design Changes

Test	Fiber Material or Manufacturer	Resin System Material	Liner or Metal Container Material	Dia. <20% Change (7)	Dia. >20% Change (7)	Service Pressure <20% Change (7)	Length <50% Change	Length >50% Change	Integral Mounting Brackets & Valve Protection Shrouds	Pressure Relief Devices or Valves	External Coating	Boss
Ambient Cycling Test (Section 16.3)	X(1)		X	X(5)	X	X(5)			X(5)			X(5)
Environmental Test (Section 16.4) (4)	X	X(10)	X(2)								X	
Extreme Temperature Cycling (Section 16.5) (4)	X	X(10)	X		X							
Hydrostatic Burst Test (Section 16.6)	X	X	X	X(5)	X	X(5)	X(5)	X(5)	X(5)			X(5)
Composite Flaw Tolerance Test (Section 16.7) (4)	X(1)	X(10)	X(2)		X							
Drop Test (Section 16.8) (4)	X	X(10)	X(11)		X			X				
Bonfire Test (Section 16.9)	X(1)		X(2)		X		X(3)	X		X(8)		
Accelerated Stress Rupture Test (Section 16.10) (4)	X(1)	X	X(11)									
Penetration Test (Section 16.11)	X(1)	X(10)	X(2)	X(9)	X							
Permeation Test (Section 16.12) (6)			X									
Natural Gas Cycling Test (Section 16.13) (6)			X(11)									X(12)
Leak Before Break (Section 16.14)	X(1)		X		X							

Notes For Table 2:

- (1) Test required only when fiber type is changed.
- (2) Tests required only when liner material type is changed, e.g., steel to aluminum or metal to polymer.
- (3) Fire test not required provided safety relief devices or device configuration passed the required fire test on a container with equal or greater internal water volume.
- (4) Test required only on composite reinforced containers.
- (5) Only one unit required for qualification.
- (6) Test required only for Type 4 containers.
- (7) When changes in diameter or pressure are made the structural wall elements must be operating at the same or lower nominal stress levels as the original design (e.g., if pressure or diameter increase, the wall thickness must increase proportionally.)
- (8) Required if the new valve design has reduced relief channel flow area compared with previously qualified valves or if the mass of the valve and PRD increase by more than 30%, or when pressure relief device is changed.
- (9) Test required only if diameter decreases.
- (10) Test not required when chemically equivalent materials are substituted.
- (11) Test required only when change is made to polymer.
- (12) Test required for Type 4 containers when the boss to liner interface is affected by design changes.