

# Codes and Standards Update

## NGVTF — February 1, 2023

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# Recently published Codes and Standards

- CSA LNG 3 series of standards, which are the adoption of the ISO 12614 series of standards for LNG fuel system components, with North American deviations.
- NGV 4.3 *Temperature compensation for compressed natural gas vehicle fueling*
- NGV 4.2 *Hose and hose assemblies for compressed natural gas (CNG) dispensing systems for natural gas vehicles (NGV)*
- NGV 1 *Compressed natural gas vehicle (NGV) fueling connection devices*
- NGV 6.1:21 Amendment 1 *Compressed natural gas (CNG) fuel storage and delivery systems for road vehicles*
- NFPA 52 *Vehicular Natural Gas Fuel Systems Code 2023 edition*

# Standards Soon to be published, or headed for ballot

- To Be published 1<sup>st</sup> qtr. 2023
  - NGV 5.1 *Residential fueling appliances (RFA)*
  - NGV 5.2 *Vehicle fueling appliances (VFA)*
  
- Ready to go to ballot
  - NGV 2 *Compressed natural gas vehicle fuel containers*

# Development Scheduled to Start 1<sup>st</sup> Qtr. 2023

NGV 6.1 *Compressed natural gas (CNG) fuel storage and delivery systems for road vehicles.*

ANG 2 **New standard** for absorbed natural gas vehicle containers

NGV 4.1 *Natural gas vehicle (NGV) dispensing systems*

NGV 5.1 *Residential fueling appliances (RFA)*

NGV 5.2 *Vehicle fueling appliances (VFA)*

NGV 5.3 **New Standard** for mobile refueling appliances

NGV 4.8 *Natural gas vehicle fueling station compressor packages*

Note: B108.1 & B108.2 have just started development on next edition

# ISO Activity from TC22/SC41 September Plenary

- SC41 recommended that 15500-13 (PRDs) be advanced to FDIS stage.
- SC41 recommended that 15500-22 be withdrawn, and content be incorporated into 15500-13 in a future edition.
- SC41 recommended to start revisions of 15501-1 & 15501-2 (CNG Systems).
- SC41 recommended to start revisions of 19723-1 & 19723-2 (LNG Systems).
- SC41 recommended to send 23684 for publication (Technical Personnel dealing with Natural Gas Vehicles (NGVs) — Training and qualification).
- Other Information
  - A new TC (TC 340) has been established for CNG fueling stations to replace PC252.
  - A new JWG between TC22/SC41 and TC188 is being formed. JWG 10 will work on ISO /PWI 18581 “CNG and LNG equipment and accessories — CNG and LNG propulsion system for small crafts — installation requirements”.

# Items of Interest

- NFPA 52 – 2023 Requires NGV 6.1 be followed for on road vehicles, where CNG is used for propulsion.
- Public input for NFPA 52 is open, closes June 1, 2023
- The edition of NGV 2 waiting to go to ballot will now include additional requirements/language imported from CSA B51, Part 2. B51, part 2 will reference NGV 2 as a requirement. This will provide 1 container standard for both the US & Canada.
- NGV 4.1, NGV 5.1 & NGV 5.2 are all being revised so as to incorporate the newly published edition of NGV 4.3.
- A call for proposals for the next edition of NGV 6.1 has been issued. Closing date is February 17, 2023.
- 2 new standards are on the work plan for CSA . ANG2 Absorbed natural gas containers & NGV 5.3 Portable refueling appliances. At this time CSA is lacking volunteers, development won't begin until they are able to form committees.
- CSA & NGVA are prioritizing trying to achieve more timely adoption of codes and standards by the various jurisdictions.

**Thank You!**