

VIRGINIA FIRE SERVICES BOARD

Codes and Standards Subcommittee

Friday, June 21, 2019

A regular meeting of the Codes and Standards Subcommittee was held at VDFP HQ at 10am on Friday, June 21, 2019. Code Subcommittee Chair, Andrew Milliken facilitated this meeting.

COMMITTEE MEMBERS PRESENT

Andrew C. Milliken, Chair
Steven Sites
Garrett Dyer
VACANT, State Fire Marshal
Linda Haile
Ernie Little
Andrew Friedman (BHCD)

COMMITTEE MEMBERS ABSENT

Kris Bridges
Maurice Wilson
Keith Johnson
Perry Weller
George Fitzgerald
Elain B. Gall
Henry Rosenbaum

GUESTS PRESENT

N/A

AGENCY MEMBERS PRESENT

Mohamed G. Abbamin

UNFINISHED BUSINESS

A. Chapters 51, 53, 54, 55, and 58

NEW BUSINESS

N/A

COMMENTS FROM FIRE PREVENTION AND CONTROL CHAIRMAN

Ernie Little advised that the last full board meeting resulted in a request for more involvement in the process of code development. A letter will be written on behalf of the VFSB Chairman, Walt Bailey that will be sent to DHCD/BHCD.

Moreover, Ernie Little introduced Andrew Friedman, the current BHCD representatives. Mr. Friedman introduced himself. He works on and is an expert on the Virginia Maintenance Code at Virginia Beach. He is interested in finding the housing and building code discrepancies.

UNFINISHED BUSINESS

Topic: Update on Workgroups Progress

Motion: N/A

Topic Discussion: Below are the details provided by Chairman Milliken;

Andrew Milliken, Chair of Code Subcommittee welcomed and encouraged Mr. Andrew Friedman to freely express his concerns etc.

Motion: N/A

Topic Discussion: Edits made to the above chapters.

Chapter 51

- **5101.1** Scope - no change
- **5101.2** Permit required – no change
- **(N)5104.1** General. –
- **5104.1** General. The inside storage of Levels 2 and 3 aerosol products shall be maintained in accordance with section 5104.2 through 5104.7, NFPA 30B, and remain in accordance with the applicable building code.

Chapter 53

- **5301.1 Scope.** Storage, use and handling of compressed gases in compressed gas containers, cylinders, tanks and systems shall remain in accordance with the applicable building code and be maintained in accordance with this chapter, and the use and handling provisions of NFPA 55, including those gases regulated elsewhere in this code. Partially full compressed gas containers, cylinders or tanks containing residual gases shall be considered as full for the purposes of the controls required. Liquefied natural gas for use as a vehicular fuel shall also comply with NFPA 52 and NFPA 59A. Compressed gases classified as hazardous materials shall also comply with Chapter 50 for general requirements and chapters addressing specific hazards, including Chapters 58 (Flammable Gases), 60 (Highly Toxic and Toxic Materials), 63 (Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids), and 64 (Pyrophoric Materials). Compressed hydrogen (CH₂) for use as a vehicular fuel shall also comply with Chapters 23 and 58 of this code and NFPA 2. Cutting and welding gases shall also comply with Chapter 35. LP-gas shall also comply with Chapter 61. Exceptions: 1. Gases used as refrigerants in refrigeration systems (see Section 606). 2. Compressed natural gas (CNG) for use as a vehicular fuel shall comply with Chapter 23, NFPA 52, and applicable building code. 3. Cryogenic fluids shall comply with Chapter 55.

Chapter 54

- **5401.1** Scope - no change
- **5401.2** Permits. - no change
- **5403.1** Quantities

- **5403.1** Quantities not exceeding the maximum allowable quantity per control area.
The storage and use of corrosive materials in amounts not exceeding the maximum allowable quantity per control area shall be maintained in accordance with Sections 5001, 5003 and 5401.
- **5403.2** Quantities exceeding the maximum allowable quantity per control area.
The storage and use of corrosive materials in amounts exceeding the maximum allowable quantity per control area shall be maintained in accordance with this chapter, chapter 50 and remain in accordance with the applicable building code for a high-hazard, group H occupancy.
- **5404.1.1** Liquid-tight floor.
In addition to the provisions of Section 5004.12, floors in storage areas for corrosive liquids shall remain as liquid-tight construction in accordance with the applicable building code.
- **5404.2.1** Above-ground outside storage tanks.
Where secondary containment is provided for above-ground outside storage tanks of corrosive liquids, it shall be maintained in accordance with Section 5004.2.2.
- **5405.1.2** Ventilation. Where required, mechanical exhaust ventilation shall be maintained and used in accordance with the applicable building code.

Chapter 55

- **5501.1 Scope.** - no change
- **(N)5503.1.2** - no change
- **(N)5503.5.2** - no change
- **5503.6** Electrical wiring and equipment.
Electrical wiring and equipment shall be maintained in accordance with NFPA 70 and Sections 5503.7.1 and 5503.7.2.
- **5504.2.1** Stationary containers. Stationary containers shall remain in accordance with the applicable building code and comply with the maintenance provisions of this section and those applicable to the type of fluid stored.
- **5504.2.1.2** Indoor storage areas. Cryogenic fluids in stationary containers stored indoors shall be stored in buildings, rooms or areas constructed for this use in accordance with the applicable building code.
- **5504.2.1.3** Ventilation. Storage areas for stationary containers shall be ventilated in accordance with the applicable building code.
- **5504.2.2.2** Indoor storage areas. Cryogenic fluids in portable containers stored indoors shall only be stored in buildings, rooms or areas constructed for this use in accordance with the applicable building code.
- **5504.2.2.3** Ventilation. Storage areas for portable containers shall be ventilated in accordance with the applicable building code.

- **(N)5505.4.1** - no change
- **5505.4.1.1** Ventilation. Ventilation required by the applicable building code shall be maintained and operated in areas where cryogenic fluids are dispensed. Exception: Cryogenic fluids that can be demonstrated not to create harmful vapors.

Chapter 58

- **(N)5801.1** Scope. - No change
- **5803.1** - Quantities not exceeding the maximum allowable quantity per control area.
The storage and use of flammable gases in amounts not exceeding the maximum allowable quantity per control area shall be maintained in accordance with Sections 5001, 5003, 5801 and 5803.
- **5803.1.1.2** - Aggregate quantity.
The aggregate quantities of flammable gases used for maintenance purposes and operation of equipment shall be maintained as to not exceed the maximum allowable quantity per control area.
- **5803.1.5** - Electrical. - Electrical wiring and equipment shall be maintained in accordance with Chapter 6 and NFPA 70.
- **5804.1** - Indoor storage. - Indoor storage of flammable gases in amounts exceeding the maximum allowable quantity per control area, shall be maintained in accordance with Sections 5001, 5003 and 5004, and this chapter and approved in accordance with the applicable building code.
- **5804.1.1** Explosion control. - Buildings or portions thereof containing flammable gases and provided with explosion control shall be maintained in accordance with Section 911 and remain in accordance with the applicable building code.
- **5806.2** - Limitations.- Storage of flammable cryogenic fluids in stationary containers outside of buildings may be subject to local ordinances or other regulations.
- **(N)5806.3** - No change
- **(N)5806.3.1** - No change
- **(N)5806.4** Underground tanks for liquid hydrogen. Underground tanks for the storage of liquid hydrogen shall be maintained in accordance with the applicable building code. - No change
- **(N)5806.4.1** Construction. (Section deleted) **(N)5806.4.2** Location. (Section deleted) **(N)5806.4.3** Depth, cover and fill. (Section deleted) - No change
- **(N)5806.4.4** Anchorage and security. Anchorage provided for tanks and systems shall be maintained in accordance with the applicable building code. - No change
- **(N)5806.4.5** Venting of underground tanks. (Section deleted) **(N)5806.4.6** Underground liquid hydrogen piping. (Section deleted) **(N)5806.4.7** Overfill protection and prevention systems. (Section deleted) **(N)5806.4.8** Vacuum jacket

construction. (Section deleted) (N)5806.4.8.1 Material. (Section deleted) (N)5806.4.8.2 Corrosion protection. (Section deleted) (N)5806.4.8.3 Vacuum-level monitoring. (Section deleted) - No change

Vote: N/A

Motion Action: N/A

Topic: Scheduling of next meetings

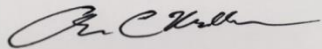
Motion: N/A

Topic Discussion: Next meetings will be Thursday, July 18 @ 10am to work on, the following chapters 50, 56, 57, 59, 60, 62, 63, 64, 65, 66, 67

Vote: N/A

Motion Action: N/A

REVIEWED BY:



Andrew Milliken, Committee Chair

June 21, 2019

Date