



First Revision No. 3-NFPA 17-2021 [Global Input]

Change all instances of UL 300 and UL 1254 to CAN/UL/ULC 300 and CAN/UL/ULC 1254 throughout the document.

Submitter Information Verification

Committee: DRY-AAA

Submittal Date: Mon Sep 27 11:48:40 EDT 2021

Committee Statement

Committee Statement: Revised to reflect that these standards are now bi-national standards and should be referenced as such throughout the document.

Response Message: FR-3-NFPA 17-2021

[Public Input No. 17-NFPA 17-2021 \[Section No. 9.3.1\]](#)

[Public Input No. 16-NFPA 17-2021 \[Section No. 9.1.2\]](#)



First Revision No. 5-NFPA 17-2021 [Chapter 2]

Chapter 2 Referenced Publications

2.1 General.

The documents or portions thereof listed in this chapter are referenced within this standard and shall be considered part of the requirements of this document.

2.2 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 30, *Flammable and Combustible Liquids Code*, 2021 2024 edition.

NFPA 70[®], *National Electrical Code*[®], 2020 2023 edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*[®], 2019 2022 edition.

NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*, 2021 2024 edition.

2.3 Other Publications.

2.3.1 ASME Publications.

American Society of Mechanical Engineers, Two Park Avenue, New York, NY 10016-5990.

ANSI/ASME B31.1, *Power Piping*, 2018 2020 .

Boiler and Pressure Vessel Code, 2018 2021 .

2.3.2 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

ASTM A53/A53M, *Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless*, 2018 2020 .

2.3.3 IEEE Publications.

IEEE, 3 Park Avenue, 17th Floor, New York, NY 10016-5997.

National Electrical Safety Code (NESC), 2017.

2.3.4 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

UL CAN/UL/ULC 300, *Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment*, 2019.

UL CAN/UL/ULC 1254, *Pre-Engineered Dry and Wet Chemical Extinguishing System Units*, 2019 2020 .

2.3.5 US Government Publications.

US Government Publishing Office, 732 North Capitol Street, NW, Washington, DC 20401-0001.

Title 29, Code of Federal Regulations, Part 1910, Subpart S.

2.3.6 Other Publications.

Merriam-Webster's Collegiate Dictionary, 11th edition, Merriam-Webster, Inc., Springfield, MA, 2003.

2.4 References for Extracts in Mandatory Sections.

NFPA 17A, *Standard for Wet Chemical Extinguishing Systems*, 2021 ~~2024~~ edition.

NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, 2020 ~~2023~~ edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*[®], 2019 ~~2022~~ edition.

NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*, 2021 ~~2024~~ edition.

NFPA 122, *Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Metal Mineral Processing Facilities*, 2020 ~~2023~~ edition.

NFPA 820, *Standard for Fire Protection in Wastewater Treatment and Collection Facilities*, 2020 ~~2024~~ edition.

NFPA 2001, *Standard on Clean Agent Fire Extinguishing Systems*, 2018 ~~2022~~ edition.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
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Submitter Information Verification

Committee: DRY-AAA

Submittal Date: Tue Sep 28 00:36:18 EDT 2021

Committee Statement

Committee Statement: Updated references to current editions. See attached word document for all proposed changes.

Response Message: FR-5-NFPA 17-2021

[Public Input No. 15-NFPA 17-2021 \[Section No. 2.3.4\]](#)



First Revision No. 4-NFPA 17-2021 [Section No. 4.5.2.3.1]

4.5.2.3.1

The operating instructions shall ~~be permitted to include the use of pictographs and shall~~ have lettering at least ¼ in. (6.35 mm) in height. (See 5.7.1.7.)

4.5.2.3.2

The operating instructions shall be permitted to include the use of pictographs.

Submitter Information Verification

Committee: DRY-AAA

Submission Date: Mon Sep 27 13:55:02 EDT 2021

Committee Statement

Committee Statement: Requirement split into two requirements to comply with the Manual of Style.

Response Message: FR-4-NFPA 17-2021



First Revision No. 10-NFPA 17-2021 [Section No. 5.1.1]

5.1.1* Use.

The types of hazards and equipment that ~~shall~~ can be protected using dry chemical extinguishing systems shall include the following:

- (1) Flammable or combustible liquids
CAUTION: Extinguishment of flammable liquid fires, especially Class I liquids (*see NFPA 30*), can result in a reflash unless all sources of ignition have been removed.
- (2) Flammable or combustible gases
CAUTION: Flammable gases present a potential explosion hazard if the flow of gas is not stopped before or during extinguishment.
- (3) Combustible solids, including plastics, that melt when involved in fire
- (4) Electrical hazards such as oil-filled transformers or circuit breakers
- (5) Textile operations subject to flash surface fires
- (6) Ordinary combustibles such as wood, paper, and cloth
- (7) Restaurant and commercial hoods, ducts, and associated cooking appliance hazards such as deep-fat fryers

Submitter Information Verification

Committee: DRY-AAA

Submittal Date: Thu Sep 30 00:14:26 EDT 2021

Committee Statement

Committee Statement: Revised to align with manual of style and other extinguishing standards.

Response Message: FR-10-NFPA 17-2021



First Revision No. 7-NFPA 17-2021 [Section No. 5.7.1.9]

5.7.1.9

The manual ~~actuation device~~ actuator shall clearly identify the hazard protected and be provided with instructions for its use. [96:10.5.1.2]

Submitter Information Verification

Committee: DRY-AAA

Submittal Date: Tue Sep 28 11:38:21 EDT 2021

Committee Statement

Committee Statement: Reference updated to reflect proposed change in next edition of NFPA 96.

Response Message: FR-7-NFPA 17-2021



First Revision No. 8-NFPA 17-2021 [Section No. 10.2.3.2]

10.2.3.2

Information shall be submitted pertaining to the ~~location and function of detection devices, operating devices, auxiliary equipment, and electrical circuitry, if used.~~ following:

- (1) The location and function of detection devices and manual actuators
- (2) Operating devices
- (3) Auxiliary equipment
- (4) Electrical circuitry

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
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Submitter Information Verification

Committee: DRY-AAA

Submittal Date: Tue Sep 28 11:53:02 EDT 2021

Committee Statement

Committee Statement: The standard requires at least one manual actuator to be located "in the path of egress or at a location acceptable to the AHJ." Requiring that their location be shown on the plans allows the AHJ to approve that position prior to seeing the device installed and perhaps requiring its relocation.

Response Message: FR-8-NFPA 17-2021



First Revision No. 14-NFPA 17-2021 [Section No. 11.3.2]

11.3.2*

Fixed temperature-sensing elements of the fusible metal alloy–type or glass bulb–type shall be replaced at least semiannually from the date of installation.

11.3.2.1

Upon removal of the fusible metal alloy temperature-sensing or glass bulb–type elements, the links shall be destroyed.

11.3.2.2

The year of manufacture and the date of installation of the fixed temperature-sensing element shall be marked on the system inspection tag.

11.3.2.3

The tag shall be signed or initialed by the installer.

Submitter Information Verification

Committee: DRY-AAA

Submittal Date: Thu Sep 30 00:21:47 EDT 2021

Committee Statement

Committee Statement: This language aligns with similar requirements in NFPA 17A.

There is a need to replace fixed temperature sensing elements of the fusible metal alloy-type or glass bulb-type for applications such as paint spray booths due to contamination build-up on these temperature sensing elements over a short period of time.

Response Message: FR-14-NFPA 17-2021



First Revision No. 6-NFPA 17-2021 [Chapter B]

Annex B Informational References

B.1 Referenced Publications.

The documents or portions thereof listed in this annex are referenced within the informational sections of this standard and are not part of the requirements of this document unless also listed in Chapter 2 for other reasons.

B.1.1 NFPA Publications.

National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.

NFPA 10, *Standard for Portable Fire Extinguishers*, 2018 2022 edition.

NFPA 30, *Flammable and Combustible Liquids Code*, 2018 2024 edition.

NFPA 72[®], *National Fire Alarm and Signaling Code*[®], 2019 2022 edition.

NFPA 120, *Standard for Fire Prevention and Control in Coal Mines*, 2020 2023 edition.

NFPA 122, *Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Metal Mineral Processing Facilities*, 2020 2023 edition.

B.1.2 Other Publications.

B.1.2.1 ASME Publications.

American Society of Mechanical Engineers, Two Park Avenue, New York, NY 10016-5990.

ANSI/ASME B31.1, *Power Piping*, 2018 2020 .

B.1.2.2 ASTM Publications.

ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

IEEE/ASTM SI 10, *American National Standard for Metric Practice*, 2016.

B.1.2.3 FSSA Publications.

Fire Suppression Systems Association, 3601 E. East Joppa Road, Baltimore, MD 21234.

Pipe Design Handbook for Use with Special Hazard Fire Suppression Systems, 2nd 3rd edition, August 2003 2019 .

Test Guide for Use with Special Hazard Fire Suppression Systems Containers, 2006 2017 .

B.1.2.4 MSS Publications.

Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry, 127 Park Street, NE, Vienna, VA 22180-4602.

ANSI/MSS SP-58, *Pipe Hangers and Supports — Materials, Design, Manufacture, Selection, Application, and Installation*, 2018.

MSS SP-127, *Bracing for Piping Systems: Seismic — Wind — Dynamic Design, Selection, and Application*, 2014.

B.2 Informational References.

The following documents or portions thereof are listed here as informational resources only. They are not a part of the requirements of this document.

B.2.1 US Government Publications.

US Government Publishing Office, 732 North Capitol Street, NW, Washington, DC 20401-0001.

Title 49, Code of Federal Regulations, Parts 170–190.

B.3 References for Extracts in Informational Sections.

NFPA 10, *Standard for Portable Fire Extinguishers*, 2018 2022 edition.

Supplemental Information

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Committee: DRY-AAA

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Committee Statement

Committee Statement: Updated references. See attached word documents for all proposed changes.

Response Message: FR-6-NFPA 17-2021