



## Second Revision No. 5-NFPA 17A-2022 [ Global Comment ]

[Create a new Annex C, move existing Annex C to Annex D.]  
 [See attached word document "17A\_A2023\_SDM\_TG4\_AnnexC" for proposed Annex C]

### Supplemental Information

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### Submitter Information Verification

**Committee:** DRY-AAA

**Submittal Date:** Mon Dec 05 09:27:29 EST 2022

### Committee Statement

**Committee Statement:** This annex was added to provide clarity and information regarding what could be considered as an impairment and what could be considered as a deficiency, similar to what is included in NFPA 25, Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

**Response Message:** SR-5-NFPA 17A-2022

## **Annex C Common Deficiencies and Impairments**

*This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.*

### **C.1**

Table C.1 does not take into account every variation of the conditions needing repair or correction. Refer to the manufacturer's design, installation, and maintenance manual. Table C.1 should be used with good judgement by qualified personnel.

Table C.1 Common Deficiencies and Impairments

<b><u>Item(s)</u></b>	<b><u>Item Finding</u></b>	<b><u>Impairment</u></b>	<b><u>Deficiency</u></b>
<u>General</u>	<u>System not installed or maintained per the manufacturer's design, installation, and maintenance manual</u>	X	
<u>Discharge nozzles</u>	<u>Clogged with debris or grease</u>	X	
<u>Discharge nozzles</u>	<u>Protective caps missing</u>		X
<u>Discharge nozzles</u>	<u>Wrong type for hazard or installed improperly</u>	X	
<u>Manual actuator</u>	<u>Inoperable</u>	X	
<u>Manual actuator</u>	<u>Inaccessible</u>		X
<u>Manual actuator</u>	<u>Needs adjustment</u>		X
<u>Manual actuator</u>	<u>Signage missing</u>		X
<u>Automatic actuation</u>	<u>Inoperable</u>	X	
<u>Automatic actuation</u>	<u>Improper detector</u>	X	
<u>Automatic actuation</u>	<u>Improper fixed temperature-sensing element temperature rating</u>	X	
<u>Shutoff devices (gas or electric)</u>	<u>Inoperable</u>	X	
<u>Manual reset relay</u>	<u>Inoperable</u>	X	
<u>Exhaust fan</u>	<u>Inoperable (unless not needed due to a listed component of the ventilation system or by design of the extinguishing system)</u>		X
<u>Makeup air supply (if applicable)</u>	<u>Inoperable</u>		X
<u>Make up air supply (if applicable)</u>	<u>Does not shut off</u>	X	
<u>Pipe, fittings, tubing, and hose</u>	<u>Clogged with debris or grease</u>	X	
<u>Pipe, fittings, tubing, and hose</u>	<u>Minor surface corrosion, minor cracking of nonmetallic components</u>		X

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<b><u>Item(s)</u></b>	<b><u>Item Finding</u></b>	<b><u>Impairment</u></b>	<b><u>Deficiency</u></b>
<u>Compressed gas cartridge</u>	<u>Missing or incorrect size</u>	X	
<u>Compressed gas cartridge</u>	<u>Needs hydrostatic testing</u>		X
<u>Compressed gas cartridge</u>	<u>Insufficient cartridge charge as indicated by weight, pressure, or periodic replacement</u>	X	
<u>Wet-chemical container</u>	<u>Empty or insufficient quantity (for nonpressurized containers)</u>	X	
<u>Wet-chemical container</u>	<u>Pressure too low (for pressurized containers)</u>	X	
<u>Wet-chemical container</u>	<u>Needs hydrostatic testing</u>		X
<u>Wet-chemical container</u>	<u>Corrosion or pitting in excess of the manufacturer's limits, structural damage, fire damage, repairs by soldering, welding, or brazing</u>	X	
<u>Pressure regulator</u>	<u>Inoperable or falls outside manufacturer's design limits</u>	X	
<u>Hazard</u>	<u>Hazard has changed</u>	X	
<u>Audible or visual indicator</u>	<u>Inoperable or needs adjustment</u>		X
<u>Connection to fire alarm system (if applicable)</u>	<u>Inoperable</u>		X
<u>Labeling</u>	<u>Missing, damaged, or illegible</u>		X



## Second Revision No. 3-NFPA 17A-2022 [ 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 70<sup>®</sup>, National Electrical Code<sup>®</sup>, 2023 edition.*

*NFPA 72<sup>®</sup>, National Fire Alarm and Signaling Code<sup>®</sup>, 2022 edition.*

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

#### 2.3 Other Publications.

##### 2.3.1 UL Publications.

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

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

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

##### 2.3.2 Other Publications.

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

#### 2.4 References for Extracts in Mandatory Sections.

*NFPA 17, Standard for Dry Chemical Extinguishing Systems, 2024 edition.*

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

*NFPA 72<sup>®</sup>, National Fire Alarm and Signaling Code<sup>®</sup>, 2022 edition.*

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

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

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## Submitter Information Verification

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## Committee Statement

<b>Committee Statement:</b>	Revised to refer to the latest editions of all referenced publications. Revised CAN/UL/ULC 1254 to reflect the correct document title.
<b>Response Message:</b>	SR-3-NFPA 17A-2022



## Second Revision No. 6-NFPA 17A-2022 [ New Section after 3.3.1 ]

### 3.3.2 Deficiency.

For inspection, testing, and maintenance of wet-chemical fire protection systems, a condition that will or has the potential to adversely affect the performance of a system or portion thereof but does not rise to the level of an impairment. (See also, Annex C .)

### Submitter Information Verification

**Committee:** DRY-AAA

**Submittal Date:** Mon Dec 05 09:39:58 EST 2022

### Committee Statement

**Committee Statement:** The definitions of deficiency and impairment are necessary because the terms are used in the standard and clarify how users should differentiate between the two conditions.

**Response Message:** SR-6-NFPA 17A-2022



## Second Revision No. 7-NFPA 17A-2022 [ New Section after 3.3.5 ]

### 3.3.7 Impairment.

Any condition where a system, component of a system, or function of a system will not perform as intended. (See also, Annex C .)

### Submitter Information Verification

**Committee:** DRY-AAA

**Submission Date:** Mon Dec 05 09:45:57 EST 2022

### Committee Statement

**Committee Statement:** The definitions of deficiency and impairment are necessary because the terms are used in the standard and clarify how users should differentiate between the two conditions.

**Response Message:** SR-7-NFPA 17A-2022



## Second Revision No. 1-NFPA 17A-2022 [ Sections 5.2.1.8, 5.2.1.9 ]

### 5.2.1.8

Upon ~~activation~~ actuation of an automatic fire-extinguishing system, an audible alarm or visual indicator shall be provided to show that the system has actuated. [96:10.6.1]

### 5.2.1.9

Where a fire alarm signaling system is serving the occupancy where the extinguishing system is located, the ~~activation~~ actuation of the automatic fire-extinguishing system shall ~~activate~~ actuate the fire alarm signaling system in accordance with the requirements of *NFPA 72*. [96:10.6.2]

## Submitter Information Verification

**Committee:** DRY-AAA

**Submittal Date:** Fri Nov 18 04:03:40 EST 2022

## Committee Statement

**Committee Statement:** Revised to align with the most recent edition of NFPA 96.

**Response Message:** SR-1-NFPA 17A-2022





## Second Revision No. 2-NFPA 17A-2022 [ Sections 7.3.3, 7.3.4 ]

### 7.3.3

The details on the system shall include the following:

- (1) Amount of wet chemical
- (2) Size, length, and arrangement of connected piping
- (3) Description and location of nozzles

### 7.3.4

Information shall be submitted pertaining to the location and function of the following, where used :

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

## Supplemental Information

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## Submitter Information Verification

**Committee:** DRY-AAA

**Submittal Date:** Fri Nov 18 10:32:24 EST 2022

## Committee Statement

**Committee Statement:** The word information was vague in the requirement, so the requirements are revised to clarify what information is required.

**Response Message:** SR-2-NFPA 17A-2022



## Second Revision No. 8-NFPA 17A-2022 [ Section No. 8.1 ]

### 8.1 General Responsibility .

The responsibility for inspection, testing, maintenance, and recharging of the fire protection system shall ultimately be that of the owner(s) of the system, provided that this responsibility has not been transferred in written form to a management company, tenant, or other party.

#### 8.1.1\*

The responsibility for inspection, testing, maintenance, and recharging of the fire protection system shall ultimately be that of the owner(s) of the system, provided that this responsibility has not been transferred in written form to a management company, tenant, or other party.

#### A.8.1.1

Inspection of existing installations should occur when changes in ownership, tenants, or hazard occurs.

#### 8.1.2\*

Where the system owner is not the operator, the system owner shall be permitted to delegate the authority and responsibility for inspection, testing, maintenance, and recharging of the system to the operator, management firm, or managing individual through specific provisions in the lease, written use agreement, or management contract.

#### A.8.1.2

A service contractor with only periodic access to the equipment, such as the fire extinguishing system contractor, does not assume this responsibility.

## Submitter Information Verification

**Committee:** DRY-AAA

**Submission Date:** Mon Dec 05 09:48:37 EST 2022

## Committee Statement

**Committee Statement:** The revision clarifies that the owner is responsible for the inspection, testing, maintenance, and recharging of the fire extinguishing system, except when that responsibility has been transferred by written agreement to another party with control over the equipment. For clarity the original text was separated into two sections based on similar language in NFPA 72®, National Fire Alarm and Signaling Code, that has been in that document since 2013. The Annex note also clarifies that a service contractor with only periodic access to the equipment, such as the fire extinguishing system contractor, does not assume responsibility for the ITM&R of the equipment. The proposed changes are consistent with similar language recently accepted by the Technical Committee on Commercial Cooking Operations, NFPA 96.

**Response Message:** SR-8-NFPA 17A-2022



## Second Revision No. 4-NFPA 17A-2022 [ Chapter C ]

### Annex D Informational References

#### D.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.

##### D.1.1 NFPA Publications.

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

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

NFPA 72<sup>®</sup>, *National Fire Alarm and Signaling Code*<sup>®</sup>, 2022 edition.

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

##### D.1.2 Other Publications.

###### D.1.2.1 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.

###### D.1.2.2 UL Publications.

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

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

UL 300A, *Outline of Investigation for Extinguishing System Units for Residential Range Top Cooking Surfaces*, 2006.

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

#### D.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.

##### D.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.

##### D.3 References for Extracts in Informational Sections.

NFPA 17, *Standard for Dry Chemical Extinguishing Systems*, 2024 edition.

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

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