



MEMORANDUM

TO: NFPA Technical Committee on Fire Safety and Emergency Symbols

FROM: Joanne Goyette

DATE: September 15, 2010

SUBJECT: NFPA 170 ROP TC Letter Ballot (F11)

The ROP letter ballot for NFPA 170 is attached. The ballot is for formally voting on whether or not you concur with the committee's actions on the proposals. Reasons must accompany all negative and abstention ballots.

Please do not vote negatively because of editorial errors. However, please bring such errors to my attention for action.

Please complete and return your ballot as soon as possible but no later than **Wednesday, September 29, 2010**. As noted on the ballot form, please return the ballot to Joanne Goyette either via e-mail to jgoyette@nfpa.org or via fax to 617-984-7110. You may also mail your ballot to the attention of Joanne Goyette at NFPA, 1 Batterymarch Park, Quincy, MA 02169.

The return of ballots is required by the Regulations Governing Committee Projects.

Attachments: Proposals

170-1 Log #CP1
(Entire Document)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

Substantiation: To conform to the NFPA Regulations Governing Committee Projects.

Committee Meeting Action: Accept

Committee Statement: See Committee Action on Committee Proposals 170-13 (Log #CP9), 170-2 (Log #CP10), 170-14 (Log #CP12), 170-15 (Log #CP13), 170-16 (Log #CP15) and 170-17 (Log #CP16).

170-2 Log #CP10
(2.3.1, D.1.2.1)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Revise text as follows:

2.3.1 ~~ANSI A117.1-1992 Specifications for Making Buildings and Facilities Accessible to and Useable by Physically Handicapped People.~~ ANSI A117.1- 2003 Accessible and Useable Buildings and Facilities.

D.1.2.1 ~~ANSI A117.1-1992 Specifications for Making Buildings and Facilities Accessible to and Useable by Physically Handicapped People.~~ ANSI A117.1- 2003 Accessible and Useable Buildings and Facilities.

Substantiation: The current edition should be referenced.

Committee Meeting Action: Accept

170-3 Log #CP4
(Table 4.2)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Remove tornado symbol from Table 4.2.

Substantiation: This symbol does not belong in the General Use Symbols Table.

Committee Meeting Action: Accept

170-4 Log #CP11
(Table 4.2)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Revise wheelchair symbol in Table 4.2 under "Accessible Emergency Exit" and "Accessible Emergency Exit Route" to meet current ANSI A117.1.

Insert 170_CP11_Fig 703.6.3.1_R Here

Substantiation: The wheelchair symbols in NFPA 170 Table 4.2 on pages 8 and 9 are not identical to the similar ones in ANSI A117.1-2003, page 70. In the ANSI symbol the whole image has the same line thickness or width. In the NFPA symbol only the wheel is the correct thickness. This correction should be made to NFPA 170 and the change in documents should be approved.

Committee Meeting Action: Accept



International Symbol of Accessibility

170-5 Log #CP14
(Table 4.2)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,
Recommendation: Add new symbols "No Open Flame - Flame" and "No Open Flame - Lighted match" to Table 4.2.

Insert Open_Flame.pdf Here

Substantiation: There are no symbols in the current edition for signs prohibiting open flames.
Committee Meeting Action: **Accept**

170-6 Log #CP8
(Chapter 6 and New Chapters 7 and 8)

Final Action: Reject

Submitter: Technical Committee on Fire Safety and Emergency Symbols,
Recommendation: Revise Chapter 6 to read as follows and add new Chapters 7 and 8.

Insert 170_CP8_Chapters_6-8_R Here

Substantiation: The proposed changes add standard symbols for sprinkler systems as well as symbols for detection and notification.
Committee Meeting Action: **Reject**
Committee Statement: The committee needs more time to clean up the proposed symbols.

170-7 Log #CP2
(Table 6.3.4)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,
Recommendation: Move existing Annex C to Table 6.3.4 and revise Table 6.3.4 title as follows:
Table 6.3.4 Symbols for Floor Openings, Wall Openings, Roof Openings and Their Protection, and Life Safety Plans.
Substantiation: The proposed change expands the use of the hourly rating symbol in Table 6.3.3 to show the required ratings of wall openings.
Committee Meeting Action: **Accept**



No Open Flame - Flame



No Open Flame – Lighted Match

170-5 Log #CP14

No Open Flame Artwork

Chapter 6 Symbols for Use in Architectural Drawings and Insurance Diagrams

6.1* Introduction.

6.1.1 This chapter presents symbols that shall be used in drawings and diagrams.

6.1.2* Symbol Presentation.

6.1.2.1* **Symbol Shapes.** The shape of symbols shall be as illustrated in Sections 6.2 through 6.12.

6.1.2.2 **Screened Lines.** Screened lines in the chapter shall not be considered part of the symbol but shall be used to represent the piping, wiring, or mounting surface associated with the symbol.

6.1.2.3 **Symbol Scale.** All scales for symbols on any one drawing shall be the same relative size.

6.1.2.4* **Symbol Orientation.** Symbols shall be oriented to the walls, piping, electrical lines, and so forth, to which they are attached.

6.2 Symbols for Site Features.

6.2.1 Buildings.

6.2.1.1 The exterior walls of buildings shall be outlined in single thickness lines if other than fire rated and double thickness lines if fire rated.

6.2.1.2* The perimeter of canopies, loading docks, and other open-walled structures shall be shown by broken lines.

6.2.2 **Railroad Tracks.** Railroad tracks shall be shown by a single line with cross dashes, as shown in Figure 6.2.2.



FIGURE 6.2.2 Symbol for Railroad Tracks.

6.2.3* **Streets.** Streets shall be shown.

6.2.4* **Bodies of Water.** Rivers, lakes, and so forth, shall be outlined.

6.2.5 Fences.

6.2.5.1 Fences shall be shown by lines with x's evenly spaced.

6.2.5.2* Gates shall be shown.

6.2.6 **Property Lines.** The notation given in Figure 6.2.6 shall indicate property lines.

FIGURE 6.2.6 Notation Indicating Property Lines.

6.2.7 **Fire Department Access.** The symbol for fire department access shall be as shown in Figure 6.2.7.



FIGURE 6.2.7 Symbol for Fire Department Access.

6.2.8 **Other Site Features.** For other fire protection site features, Section 6.4 shall be viewed.

6.3 Symbols for Building Construction.

6.3.1* Types of Building Construction. Types of construction shall be shown narratively.

6.3.2* Height. Height shall be shown to indicate number of stories above ground, number of stories below ground, and height from grade to eaves.

6.3.3* Symbols for Walls and Parapets. Symbols for walls and parapets shall be as given in Table 6.3.3.

Table 6.3.3 Symbols for Walls and Parapets	
Symbol	Description
	Wall — basic shape
	Smoke barrier wall
	1/2-hour fire-rated wall
	1/2-hour fire-rated/smoke barrier wall
	3/4-hour fire-rated wall
	3/4-hour fire-rated/smoke barrier wall
	1-hour fire-rated wall
	1-hour fire-rated/smoke barrier wall
	2-hour fire-rated wall
	2-hour fire-rated/smoke barrier wall
	3-hour fire-rated wall
	3-hour fire-rated/smoke barrier wall
	4-hour fire-rated wall
	4-hour fire-rated/smoke barrier wall
	Parapet — One cross for each 150 mm (6 in.) parapet that extends above roof (Shown is plan view of symbol.)



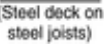



6.3.4 Symbols for Floor Openings, Wall Openings, Roof Openings, and Their Protection. Symbols for floor openings, wall openings, roof openings, and their protection shall be as given in Table 6.3.4.

Table 6.3.4 Symbols for Floor Openings, Wall Openings, Roof Openings, and Their Protection	
Symbol	Description
	Opening in wall
	Rated fire door in wall (less than 3 hours)
	Fire door in wall (3-hour rated)
	Elevator in combustible shaft
	Elevator in noncombustible shaft
	Open hoistway
	Escalator
	Stairs in combustible shaft
	Stairs in fire-rated shaft
	Stairs in open shaft
	Skylight

6.3.5* Special Symbols for Cross-Sections. The symbols shown in Table 6.3.5 shall be used to










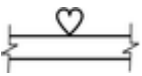
indicate features of cross-sections. It is recognized that descriptive notes often are required.

Table 6.3.5 Special Symbols for Cross-Sections

Symbol	Description	Comment
	Fire-resistive floor or roof	
	Wood-joisted floor or roof	
	Other floors or roofs	Note construction
	Floor/ceiling or roof/ceiling assembly	Details indicated, as necessary
	Floor on ground	
	Truss roof	Note construction

6.3.6 Miscellaneous Features. A number of features related to fire protection that do not fall under 6.3.1 through 6.3.5 shall be as given in Table 6.3.6.

Table 6.3.6 Miscellaneous Features

Symbol	Description	Comment
	Boiler	
	Chimney	Describe height and construction
	Fire escape	
	Horizontal aboveground tank	Indicate type, dimensions, construction, capacity, pressurization, and content
	Vertical aboveground tank	Indicate type, dimensions, construction, capacity, pressurization, and content
	Belowground tank	Indicate type, dimensions, construction, capacity, pressurization, and content
	Class I, Division 1 or 0	Hatch patterns for electrically classified locations
	Class I, Division 1 or Zone 1	Hatch patterns for electrically classified locations
	Class I, Division 2 or Zone 2	Hatch patterns for electrically classified locations
	Designates the location of automated external defibrillators (AEDs) on plans	

Chapter 7 Symbols for Use in Water Supply, Extinguishing and Sprinkler System Drawings and Insurance Diagrams

7.1* Introduction.

7.1.1 This chapter presents symbols that shall be used in drawings and diagrams.

7.1.2* Symbol Presentation.

7.1.2.1* **Symbol Shapes.** The shape of symbols shall be as illustrated in Sections 7.2 through 7.7.

7.1.2.2 **Screened Lines.** Screened lines in the chapter shall not be considered part of the symbol but shall be used to represent the piping, wiring, or mounting surface associated with the symbol.

7.1.2.3 **Symbol Scale.** All scales for symbols on any one drawing shall be the same relative size.









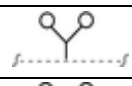

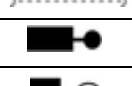



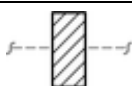
7.1.2.4* **Symbol Orientation.** Symbols shall be oriented to the walls, piping, electrical lines, and so forth, to which they are attached.

7.2* Water Supply and Distribution Symbols.

Water supply and distribution symbols shall be as given in Table 7.2.

Table 7.2 Water Supply and Distribution Symbols

Symbol	Description	Comments
	Public water main	Indicate pipe size and material
	Private water main	Indicate pipe size and material
	Water main under building	Indicate pipe size and material
	Suction pipe	Indicate pipe size and material
	Thrust block	
	Riser	
	Valves (general)	Basic shape; indicate valve size
	Valve in pit	Indicate valve size
	Post-indicator valve	Indicate valve size
	Key-operated valve	Indicate valve size
	OS&Y valve (outside screw and yoke, rising stem)	Indicate valve size
	Indicating butterfly valve	Indicate valve size
	Nonindicating valve (nonrising-stem valve)	Indicate valve size
	Check valve	Basic shape; indicate valve size, direction of flow
	Backflow preventer — double check type	Also referred to as a double check valve assembly
	Backflow preventer — reduced pressure zone (RPZ) type	
	Pressure-regulating valve	




	Pressure relief valve	
	Float valve	
	Meter	Indicate type
	Private hydrant, one hose outlet	Indicate size, type of thread, or connection
	Public hydrant, two hose outlets	Indicate size, type of thread, or connection
	Public hydrant, two hose outlets and pumper connection	Indicate size, type of thread, or connection
	Wall hydrant, two hose outlets	Indicate size, type of thread, or connection
	Private housed hydrant, two hose outlets	Indicate size, type of thread, or connection
	Siamese fire department connection	Specify type, size, and angle
	Freestanding siamese fire department connection	Sidewalk or pit type; specify size
	Single fire department connection	Specify type, size, thread, and angle
	Fire pump with drives	
	Freestanding test header	Freestanding; specify number and sizes of outlets
	Wall-mounted test header	Wall; specify number and sizes of outlets
	Screen/strainer	

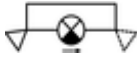
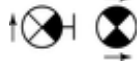




7.3 Reserved

7.4 Symbols Related to Means of Egress.

Symbols related to means of egress shall be as given in Table 7.4.

Table 7.4 Symbols Related to Means of Egress


Symbol	Description	Comments
	Emergency light, battery-powered	Number of lamps on unit to be indicated. Indicate whether light head(s) [lamp(s)] is remote from battery
	Illuminated exit sign, single face	Indicate direction of flow for the face
	Illuminated exit sign, double face	Indicate direction of flow for each face

	Combined battery-powered emergency light and illuminated exit sign	Number of lamps on unit to be indicated; indicate whether light head(s) [lamp(s)] is remote from battery; indicate direction of flow for the face
	Exit lighting	Exit lighting fixture, arrows, and exit face as indicated on drawings (mounting heights to be determined by job specifications) — from NECA 100, symbol 2.005
	Luminaire providing emergency illumination (filled in)	From NECA 100, symbol 2.300
	Directional sounder — exit marking audible appliance, wall mounted	Applied from NECA 100, symbol 9.109
	Directional sounder — exit marking audible appliance, ceiling mounted	Applied from NECA 100, symbol 9.110
	Directional exit indicating strip lighting appliance	Applied from NECA 100, symbol 2.002

7.5 Symbols for indicating appliances

7.5.1 Indicating Appliances. Symbols for indicating appliances shall be as given in Table 7.5.1.

Table 7.5.1 Symbols for Indicating Appliances









Symbol	Description	Comments
	Water motor alarm (water motor gong)	Shield optional

7.6* Symbols for Fire Extinguishing Systems.

7.6.1 Various Types of Fire Extinguishing Systems.

7.6.1.1 Water-Based Systems. Symbols for water-based systems shall be as given in Table 7.6.1.1.





Table 7.6.1.1 Symbols for Water-Based Systems

Symbol	Description
	Wet charged system — automatically actuated
	Wet charged system — manually actuated
	Dry system — automatically actuated
	Dry system — manually actuated
	Foam system — automatically actuated
	Foam system — manually actuated
	Water mist extinguishing system — automatically actuated
	Water mist extinguishing system — manually actuated

7.6.1.2 Dry Chemical Systems. Symbols for dry chemical systems shall be as given in Table





7.6.1.2.

Table 7.6.1.2 Symbols for Dry Chemical Systems

Symbol	Description
	For liquid, gas, and electrical fires — automatically actuated
	For liquid, gas, and electrical fires — manually actuated
	For fires of all types (except metals) — automatically actuated
	For fires of all types (except metals) — manually actuated





7.6.1.3 Systems Utilizing a Gaseous Medium. Symbols for systems utilizing a gaseous medium shall be as given in Table 7.6.1.3.

Table 7.6.1.3 Symbols for Systems Utilizing a Gaseous Medium

Symbol	Description
	Carbon dioxide system — automatically actuated
	Carbon dioxide system — manually actuated
	Halon system or clean agent extinguishing system — automatically actuated
	Halon system or clean agent extinguishing system — manually actuated





7.6.1.4 Supplementary Symbols. Supplementary symbols shall be as given in Table 7.6.1.4.







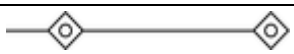


Table 7.6.1.4 Supplementary Symbols

Symbol	Description
	Fully sprinklered space
	Partially sprinklered space
	Nonsprinklered space
	Water spray system

7.6.2* Symbols for Fire Sprinklers. Symbols for fire sprinklers shall be as given in Table 7.6.2.


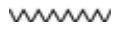









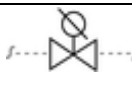

Table 7.6.2 Symbols for Fire Sprinklers

Symbol	Description	Comments
	Upright sprinkler	
	Pendent sprinkler	Note “DP” on drawing and/or in specifications where dry pendent sprinklers are employed
	Upright sprinkler; on sprig	
	Upright sprinkler on top of riser nipple	

	Upright sprinkler on top of riser nipple with sprig	
	Pendent sprinkler; on drop nipple	Note "DP" on drawing and/or in specifications where dry pendent sprinklers are employed
	Sprinkler, with guard	Upright sprinkler head shown
	Sidewall sprinkler	
	Outside sprinkler	Specify type, orifice size; for example, open sprinkler (window or cornice)
	Open sprinkler on branch line	
	Open sprinkler on branch line with sprig	
	Water spray nozzle	
	Window sprinklers	

7.6.3* Symbols for Piping, Valves, Control Devices, and Hangers. Symbols for piping, valves, control devices, and hangers shall be as given in Table 7.6.3.

Table 7.6.3 Symbols for Piping, Valves, Control Devices, and Hangers

Symbol	Description	Comments
	Sprinkler piping and branch line	Indicate pipe size
	Pipe trace heater	See NECA 100, symbol 5.106
	Mechanical coupling	
	Pipe hanger	This symbol is a diagonal stroke imposed on the pipe that it supports
	Lateral brace	
	Longitudinal brace	
	Four-way brace	Only used to brace risers
	Angle valve (angle hose valve)	Indicate size, type, and other required data
	Check valve (general)	
	Alarm check valve	Specify size, direction of flow
	Dry pipe valve	Specify size
	Dry pipe valve with quick opening device (accelerator or exhaustor)	Specify size and type
	Deluge valve	Specify size and type



Preaction valve

Specify size and type

7.4 Symbols for Portable Fire Extinguishers.

Symbols for portable fire extinguishers shall be as given in Table 7.4.

Table 7.4 Symbols for Portable Fire Extinguishers

Symbol	Description	Comments
	Portable fire extinguisher	Basic shape
	Water extinguisher	
	Foam extinguisher	
	Dry chemical extinguisher — for liquid, gas, or electrical fires	BC type
	Dry chemical extinguisher — for fires of all types (except metals)	ABC type
	CO ₂ extinguisher	
	Halon or clean agent extinguisher	
	Extinguisher for metal fires	

7.5 Symbols for Fire-Fighting Equipment.

Symbols for fire-fighting equipment shall be as given in Table 7.5.

Table 7.5 Symbols for Fire-Fighting Equipment










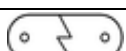
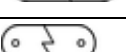







Symbol	Description	Comments
	Fire-fighting equipment	Basic shape
	CO ₂ reel station	
	Dry chemical reel station	
	Foam reel station	
	Hose station, dry standpipe	
	Hose station, wet standpipe	
	Monitor nozzle, dry	Specify orifice size
	Monitor nozzle, charged	Specify orifice size

7.6* Miscellaneous Symbols.

Miscellaneous symbols shall be as given in Table 7.6.

Table 7.6 Miscellaneous Symbols

Symbol	Description	Comments
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	Agent storage container	Specify type of agent and mounting
	Agent storage container — foam	
	Agent storage container — Halon	
	Agent storage container — carbon dioxide	
	Agent storage container — clean agent	
	Agent storage container — dry chemical	
	Agent storage container — water mist	
	Agent storage container — wet chemical	
	Special spray nozzle	Specify type, orifice, size, other required data (shown here on pipe)
	Fusible link	Specify degrees
	Fusible link with electrothermal feature	Specify degrees
	Solenoid valve	
	End of line device — resistor	
	End of line device — relay	
	End of line device — capacitor	
	End of line device — diode	
	Transfer switch — automatic with handle	
	Transfer switch — manual with handle	

Chapter 8 Symbols for Use in Electronic Fire and Smoke Detection and Notification System Drawings and Insurance Diagrams

8.1* Introduction.

8.1.1 This chapter presents symbols that shall be used in drawings and diagrams.

8.1.2* Symbol Presentation.

8.1.2.1* Symbol Shapes. The shape of symbols shall be as illustrated in Sections 8.2 through 8.12.

8.1.2.2 Screened Lines. Screened lines in the chapter shall not be considered part of the symbol but shall be used to represent the piping, wiring, or mounting surface associated with the symbol.

8.1.2.3 Symbol Scale. All scales for symbols on any one drawing shall be the same relative size.

8.1.2.4* Symbol Orientation. Symbols shall be oriented to the walls, piping, electrical lines, and so forth, to which they are attached.

8.2 Symbols for Control Panels. Symbols for control panels shall be as given in Table 8.2.

Symbol	Description
	Basic Shape
	Fire Alarm Control Panel
	Fire Alarm Control Unit
	Fire Alarm Transponder n = Transponder Number
	Fire Alarm Annunciator
	LCD Annunciator
	Notification Circuit Power Booster Panel n = Unit Number
	Fire Alarm Terminal Cabinet
	Battery Cabinet
	Voice Evacuation Control Unit
	Remote Voice Evacuation Microphone
	Graphic Annunciator Panel
	Uninterruptible Power Supply
	Power Panel
	CRT
	Printer
	Emergency Communications Control Unit
	Fire Suppression Control Panel xx Denotes Suppression Type
	Fire Suppression Control Unit xx Denotes Suppression Type

Table 8.2.1 Additional Abbreviations for Control Units

AMP	Amplifier Rack
ARCM	Area of Refuge emergency communication system – Master Unit
ARCR	Area of Refuge emergency communication system – Remote Unit
ACU	Autonomous Control Unit
EVACn	Remotely Located Evacuation Amplifier Cabinet
ESR	Elevator Status/Recall
DACR	Digital Alarm Communicator Receiver
DACT	Digital Alarm Communicator Transmitter
FAC	Fire Alarm Communicator
HVA	Control Panel for Heating, Ventilation, Exhaust, Stairwell Pressurization
PP	Purge Panel
PRE	Pre-action System
RP	Relay Panel
SAP	Sprinkler Alarm Panel
WCU	Wireless Control Unit
MFACU	Master Fire Alarm Control Unit
PPCU	Protected Premises Control Unit (Local)
DEFACU	Dedicated Function Fire Alarm Control Unit
RSFACU	Releasing Service Fire Alarm Control Unit





















Fire Suppression/Releasing Service Control Unit Types:

CO2	Carbon Dioxide
DC	Dry Chemical
HL	Halon
FO	Foam
WC	Wet Chemical
CA	Clean Agent
WM	Water Mist
DL	Deluge Fire Sprinkler

8.3* Symbols for Fire Alarms, Detection, and Related Equipment.

8.3.1* Signal Initiating Devices and Activation Switches. Symbols for signal initiating devices and activation switches shall be as given in Table 8.3.1.

Table 8.3.1 Symbols for Initiating Devices and Activation Switches

Symbol	Description
	Manual Station – Basic Shape
	Manual Station – Pull Station/ Fire Alarm Box
	Fire Alarm Master Box
	Drill Key
	Abort Switch – Basic Shape
	Abort Switch
	Manual Releasing Station
	Automatic Detection and Supervisory Devices – Basic Shape
	Heat Detector/Sensor (Thermal Detection) Orientation not to be changed
	Heat Detector/Sensor – XX = Type
	Heat Detector – Line Type
	Smoke Detector/Sensor – Basic Shape Orientation not to be changed
	Smoke Detector/Sensor – XX = Type
	Smoke/Heat Detector/Sensor Combination
	Smoke Detector/Sensor – Beam Transmitter
	Smoke Detector/Sensor – Beam Receiver
	Smoke Detector/Sensor for Duct
	Gas Detector/Sensor XX = Gas Type
	Flame Detector XX = Detection Type
	Water Detector

Manual Station and Abort Switch Types:

- CO2 Carbon Dioxide
- DC Dry Chemical
- HL Halon
- FO Foam
- WC Wet Chemical
- CA Clean Agent
- WM Water Mist
- DL Deluge Fire Sprinkler
- PRE Preaction

Heat Detector/Sensor Types:

- R/F Combination Rate of Rise/Fixed Temperature
- RC Rate Compensation
- F Fixed Temperature
- R Rate of Rise Only

Smoke Detector/Sensor Types:

- AS Air Sampling
- P Photoelectric
- I Ionization
- R Relay Base
- SS Single Station
- SB Sounder Base
- ID In Duct

Gas Detector/Sensor Subscript Examples

- CO Carbon Monoxide
- CO2 Carbon Dioxide
- HCL Hydrogen Chloride
- CH4 Methane

Flame Detector/Sensor Types:

- UV Ultraviolet
- IR Infrared
- UV/IR Combination Ultraviolet/Infrared
- VR Visible Radiation

Table 8.3.1 Continued

Symbol	Description
	Flow Detector/Switch
	Pressure Detector/Switch
	Valve Supervisory Switch
	Valve with Valve Supervisory Switch
	Level Detector/Switch
	Temperature Supervisory Switch
	High Temperature Switch
	Low Temperature Switch
	Addressable Input Module
	Addressable Output Module
	Addressable Input/Output Module # Denotes Number of Inputs and Outputs
	Non-Addressable Output Relay

8.3 Notification Appliances. symbols for notification appliances shall be as given in Table 8.3.2

8.3.1 Notification Appliance Subscripts applied to symbols as further clarification may require.

- WP Weather proof
- WG Wire Guard
- H High Audible Setting
- L Low Audible Setting
- C Ceiling Mount
- nW Wattage Setting n=Speaker Tap
- P Pendant
- SL Signal Light
- RI Remote Indicator








8.3.2 Notification Appliances. Symbols for notification appliances shall be as given in Table 8.3.2.

Table 8.3.2 Symbols for Notification Appliances

Symbol	Description
	Audible Appliance – Basic Shape
	Horn Only
	Mini-Horn
	Chime – Electronic
	Speaker Only, Wall Mount – Denote Wattage Tap
	Speaker Only, Ceiling Mount – Denote Wattage Tap
	Bell – Vibrating
	Bell – Single Stroke
	Bell – Trouble
	Gong
	Chime
	Visible Only (Strobe)– Wall Mount CD = Candela rating/setting
	Visible Only (Strobe) – Ceiling Mount CD = Candela rating/setting
	Rotating Beacon
	Combination Horn/Visible CD = Candela rating/setting
	Combination Speaker/Visible – W = Wattage CD = Candela rating/setting
	Remote Indicator
	Remote Alarm Indicator and Test Switch
	Ceiling Mount Indicator















8.3.3 Emergency Communications Notification Appliances. Symbols for emergency communication appliances shall be as given in Table 8.3.3.

Table 8.3.3 Symbols for Emergency Communications Notification Appliances

Symbol	Description
 CD	Visible Only (Strobe)– Wall Mount CD = Candela rating/setting
 CD	Visible Only (Strobe) – Ceiling Mount CD = Candela rating/setting
 W  CD	Combination Speaker/Visible – Wall Mount CD = Candela rating/setting, W = Wattage
 W  CD	Combination Speaker/Visible – Ceiling Mount CD = Candela rating/setting, W = Wattage
 ET	Emergency Textual Visible Appliance

8.4 Related Equipment. Symbols for related equipment shall be as given in Table 8.4









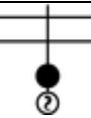
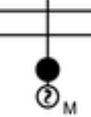



Table 8.4 Symbols for Related Equipment

Symbol	Description
 DH	Door Holder
 DCL	Door Closer
  DCL	Integral Smoke Detector and Door Closer
	End Of Line Resistor
	Fire Service or Emergency Phone Station – Basic Shape
 J	Fire Service or Emergency Phone Station – Jack
 H	Fire Service or Emergency Phone Station – Handset
 A	Fire Service or Emergency Phone Station – Accessible
 SA	Sync Adapter Module (Strobe Synchronization)
 ISO	Isolator Module (Style 6 or 7 Fault Protection)
 JB	Junction Box
	Air Sampling Detector Piping
 WT	Watchman's Tour Station

8.5 Symbols for Smoke/Pressurization Control.

Symbols for smoke/pressurization controls shall be as given in Table 8.5.

Table 8.5 Symbols for Smoke/Pressurization Control

Symbol	Description	Comments
	Purge controls — manual control	
	Hand (manual)/off-automatic	
	Fans — general	Arrow indicates direction of flow
	Fans — duct	Arrow indicates direction of flow
	Fans — roof	Arrow indicates direction of flow
	Fans — wall	Arrow indicates direction of flow
	Dampers — fire	
	Dampers — smoke	
	Dampers — fire/smoke	
	Dampers — motorized fire/smoke	
	Dampers — barometric	
	Pressurized stairwell	Orient as required for base or head injection
	Ventilation openings	Orient as required for intake or exhaust

170-8 Log #1
(Table 6.4)

Final Action: Accept

Submitter: David R. Hague, Liberty Mutual Property

Recommendation: Revise description and comments for fire pump symbol as follows:

Description: Fire pump with driver

Comments: Specify driver type and rated capacity

Add new symbols for Freestanding test header and wall-mounted test header as shown in Table 6.4.

Insert Table 170_L1_Tb 6.4_R Here

Substantiation: It is important to indicate the type of driver for each fire pump (such as electric, diesel or steam) and indicate on the diagram the rated capacity of the pump. The proposed symbols for the fire pump test header (both freestanding and wall-mounted) will more clearly indicate the number of outlets on the diagram.

Committee Meeting Action: Accept

170-9 Log #CP6
(New Table 8.3.2)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Update Table 8.3.2 to match FGDC changes.

Insert 170_FGDC_changes_R Here

Substantiation: To keep up to date with changes in the government standard.

Committee Meeting Action: Accept

170-10 Log #CP3
(9.2.4)

Final Action: Accept

Submitter: Technical Committee on Fire Safety and Emergency Symbols,




Recommendation: Revise text as follows:

9.2.4 The size of text, symbols, and tactile information shall allow visibility by all occupants.











Substantiation: The term "tactile" could be misleading.















Committee Meeting Action: Accept














Table 6.4

Symbol	Description	Comments
	Fire pump with driver.	<u>Specify driver type and rated capacity.</u>
	Freestanding test header.	Freestanding: specify number and sizes of outlets.
	Wall-mounted test header.	Wall: specify number and sizes of outlets.

Version 2.0 Symbology Changes

Symbol Types	Old (Version 1)	New (Version 2)	Key Stroke	Symbol Terms and Definitions
1.) Civil Disturbance Incident (Theme)		 CHANGED since previous version.	A	Human activities resulting in the disrupting of services or requiring varying levels of support, law enforcement or attention.
2.) Civil Demonstrations (Civil Disturbance Feature)		 CHANGED since previous version.	B	A public display of group feelings toward a person or cause. (Source: Merriam-Webster Online Dictionary definition)
3.) Civil Displaced Population (Civil Disturbance Feature)		 CHANGED since previous version.	C	Persons or groups of person who have been forced or obliged to flee or to leave their homes or places of habitual residence, in particular as a result of or in order to avoid the effects of armed conflict, violations of human rights, or natural or human-made disasters. (Source: United Nations Guiding Principles on Internally Displaced Persons, 1998)
4.) Civil Rioting (Civil Disturbance Feature)		 CHANGED since previous version.	D	A public disturbance involving (1) an act or acts of violence by one or more persons part of an assemblage of three or more persons, which act or acts shall constitute a clear and present danger of, or shall result in, damage or injury to the property of any other person or to the person of any other individual or (2) a threat or threats of the commission of an act or acts of violence by one or more persons part of an assemblage of three or more persons having, individually or collectively, the ability of immediate execution of such threat or threats, where the performance of the threatened act or acts of violence would constitute a clear and present danger of, or would result in, damage or injury to the property of any other person or to the person of any other individual. (Source: 18 USC Section 2102)
5.) Bomb Threat (Criminal Activity Feature)		 CHANGED since previous version.	F	A warning of the of the possible presence of a bomb or expression of the intention to detonate a bomb.

6.) Bomb (Criminal Activity Feature)			G	An explosive device fused to detonate under specific conditions. (Source: International military definition)
		CHANGED since previous version.		
7.) Bomb Explosion (Criminal Activity Feature)			H	A violent outburst resulting from detonation of a chemical or nuclear explosive or from the loss of a high pressure vessel's integrity.
		CHANGED since previous version.		
8.) Commercial Facility Fire (Fire Incident Feature)		DELETED from previous version.	M	A fire that originates at or affects a commercial facility, resulting in partial damage or total destruction of the structure and/or bodily injury, smoke inhalation or death.
9.) Grassland Fire (Fire Incident Feature)		DELETED from previous version.	O	An uncontrollable fire in areas of vegetation dominated by grasses, grass-like plants, forbs, mosses, lichens, and/or ferns. (Source: Expanded from <i>Forest Fire</i> definition and the Forestry Resource glossary located at http://forestry.about.com/library/glossary/)
10.) Non-Residential Fire (Fire Incident Feature)		ADDED since previous version.	N	A fire that originates at or affects a non-residential or commercial facility, resulting in partial damage or total destruction of the structure and/or bodily injury, smoke inhalation or death.
11.) Industrial Facility Fire (Fire Incident Feature)		DELETED from previous version.	Q	A fire that originates at or affects an industrial facility, resulting in partial damage or total destruction of the structure and/or bodily injury, smoke inhalation or death.
12.) Origin (Fire Incident Feature)			O	Location of where the fire started. (Source: Forest Service Department of Agriculture http://www.fs.fed.us)
		CHANGED since previous version.		
13.) Wild Fire (Fire Incident Feature)			T	An uncontrolled fire in a wooded area. (Source: www.realdictionary.com)
		ADDED since previous version.		
14.) Avalanche (Geologic Feature)			B	A large mass of snow, ice, soil, or rock, or mixtures of these materials, falling, sliding, or flowing very rapidly under the force of gravity. (Source: Dictionary of
		CHANGED		

			since previous version.		Geological Terms, 3rd Ed.)
15.) Bird Infestation (Infestation Feature)			ADDED since previous version.	U	A harassing or troublesome invasion of birds. (Source: derived from the definition of <i>infestation</i> found in the FactMonster.com dictionary)
16.) Ambulance (Emergency Medical Feature)			ADDED since previous version.	C	A vehicle for taking sick or wounded people to and from a hospital.
17.) Emergency Collection Evacuation Point (Emergency Operation Feature)			CHANGED since previous version.	M	A designated place where displaced persons or victims of war or disaster are assembled and/or evacuated from.
18.) Emergency Public Information Center (Emergency Operation Feature)			CHANGED since previous version.	P	No Definition.
19.) Emergency Water Distribution Center (Emergency Operation Feature)			CHANGED since previous version.	T	A place where potable water is distributed to displaced persons or victims of war or disaster.
20.) Church (Public Venues Feature)			DELETED from previous version.	R	A building for public and especially Christian worship. (Source: Merriam-Webster Online Dictionary)
21.) Mosque (Public Venues Feature)			DELETED from previous version.	T	A building used for public worship by Muslims. (Source: Merriam-Webster Online Dictionary)
22.) Synagogue (Public Venues Feature)			DELETED from previous version.	X	The house of worship and communal center of a Jewish congregation. (Source: Merriam-Webster Online Dictionary)
23.) Temple (Public Venues Feature)			DELETED from previous version.	Y	A building for Mormon sacred ordinances. (Source: Merriam-Webster Online Dictionary)
24.) Emergency Public Service Center (Emergency Operation Feature)			DELETED from previous version.	P	No Definition.

Feature)

25.) **Forest Fire**
(Fire Incident
Feature)



DELETED
from previous
version.

N

An uncontrolled fire in a wooded area.
(Source: www.realdictionary.com)

170-11 Log #CP7 Final Action: Accept
(9.4.1.1)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Revise text as follows:

9.4.1.1 The means of egress from the viewers' location shall be shown. This shall include all exit locations, exit access paths, stairways, elevators, elevator lobbies, areas of refuge, areas of rescue assistance, shelter areas, and exterior outside evacuation assembly areas.

Substantiation: To maintain consistency with government standards.

Committee Meeting Action: Accept

170-12 Log #CP5 Final Action: Accept
(New A.9.3 and Figure A.9.3)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Add new text as follows:

A.9.3. See Figure A.9.3.

Insert 170_CP5_Fig A.9.3_R Here

Substantiation: The new figure provides an example of proper orientation.

Committee Meeting Action: Accept

170-13 Log #CP9 Final Action: Accept
(D.1.1)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Remove NFPA 170, *Standard for Firesafety Symbols*, 1991 edition and NFPA 172, *Standard for Fire Protection Symbols for Architectural and Engineering Drawings* for D.1.1.

Substantiation: There is no reason to reference an older edition of the standard and NFPA 172 has been incorporated into NFPA 170 in previous cycles.

Committee Meeting Action: Accept

170-14 Log #CP12 Final Action: Accept
(D.2.1)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

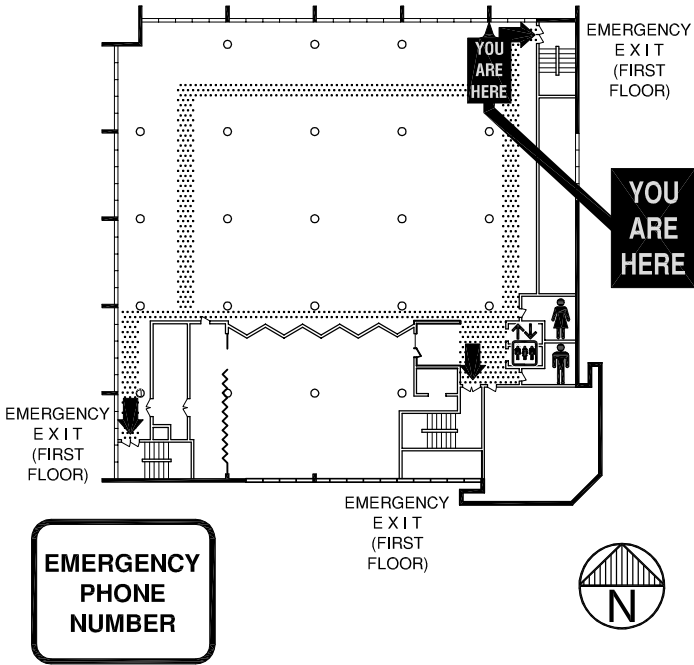
Recommendation: Update Fire Protection Handbook from 19th edition to 20th edition and update National Fire Codes from 2006 edition to 2010 edition.

Substantiation: NFPA Publications should be updated to current editions.

Committee Meeting Action: Accept

EVACUATION DIAGRAM

THIRD FLOOR



**EMERGENCY
GUIDELINES**

**SITE
MAP**

**KEY/
LEGEND**

170-15 Log #CP13 Final Action: Accept
(D.2.2)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Revise text as follows:

D.2.2 ~~ANSI Z535.1 Safety Color Code, 2002~~ ANSI Z535.1 American National Standard for Safety Colors, 2006.

~~ANSI Z535.3 Criteria for Safety Symbols, 2002~~ ANSI Z535.3 American National Standard Criteria for Safety Symbols, 2007.

~~ANSI Z535.4 Production Safety Signs and Labels, 2002~~ ANSI Z535.4 American National Standard for Product Safety Signs and Labels, 2007.

Substantiation: The current editions should be referenced.

Committee Meeting Action: Accept

170-16 Log #CP15 Final Action: Accept
(D.2.3)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Delete D.2.3.

Substantiation: Referenced publication is no longer published or referenced in NFPA 170.

Committee Meeting Action: Accept

170-17 Log #CP16 Final Action: Accept
(D.2.4)

Submitter: Technical Committee on Fire Safety and Emergency Symbols,

Recommendation: Delete ISO 3461-1976 from D.2.4.

Substantiation: ISO 3461-1976 has been withdrawn by ISO.

Committee Meeting Action: Accept