



NATIONAL FIRE PROTECTION ASSOCIATION

The leading information and knowledge resource on fire, electrical and related hazards

NFPA Technical Committee on Water Mist Fire Suppression Systems (WAM-AAA)

NFPA 750 SECOND DRAFT MEETING AGENDA

September 21,22, & 28, 2021

11:00 am – 3:00 pm (EST)

Web/Teleconference

September 21 & 22, 2021

1. Call to Order -11:00 am
2. Attendance and Voting Members (See Page 2)
3. Review Agenda
4. NFPA Staff Liaison Presentation and Review of Key Dates
5. Chairman's Remarks
6. Approval of Previous Meeting Minutes (November 4, 2020) (Page 6)
7. Act on eighteen (18) Public Comments for NFPA 750 (Page 8)
8. Recess 1:00 pm
9. Call to Order – 1:15 pm
10. Recess 3:00 pm

September 28, 2021

1. Call to Order -11:00 am
2. Continue to act on Public Comments for NFPA 750
3. Recess 1:00 pm
4. Call to Order – 1:15 pm
5. New Business
 - Assignment of new task groups
6. Next Meeting
7. Adjourn 3:00pm

Address List No Phone

09/07/2021
Baran Ozden
WAM-AAA

Water Mist Fire Suppression Systems

Robert Kasiski Chair FM Global 270 Central Avenue PO Box 7500 Johnston, RI 02919-4923 Alternate: Hong-Zeng Yu	I 7/26/2007 WAM-AAA	Gerard G. Back Principal JENSEN HUGHES 3610 Commerce Drive, Suite 817 Baltimore, MD 21227-1652	SE 10/23/2013 WAM-AAA
Robert J. Ballard Principal Victaulic Fire Suppression Technology Manager 4901 Kesslersville Road Easton, PA 18040 Alternate: Lawrence R. Carmen	M 08/11/2014 WAM-AAA	Joseph C. Barter Principal UTC/Marioff North America 400 Main Street Ashland, MA 01721 Alternate: Maarit Tuomisaari	M 04/05/2016 WAM-AAA
Sean Cutting Principal Johnson Controls 1467 Elmwood Avenue Cranston, RI 02910 Alternate: Dennis M. Phillips	M 04/04/2017 WAM-AAA	Paul J. Felch Principal F. E. Moran, Inc. Special Hazard Systems 2265 Carlson Drive Northbrook, IL 60062 National Fire Sprinkler Association Alternate: Roland A. Asp	M 8/5/2009 WAM-AAA
Raymond N. Hansen Principal US Department of the Air Force AFCEC/COSM 139 Barnes Drive, Suite 1 Tyndall AFB, FL 32403-5319 Alternate: Andrew S. Carmean	E 7/1/1993 WAM-AAA	Jeff Hebenstreit Principal UL LLC 484 Tamarach Drive Edwardsville, IL 62025-5246 Alternate: Kerry M. Bell	RT 08/11/2014 WAM-AAA
Eric J. Houin Principal Securiplex LLC Products 501 Evergreen Drive Gretna, LA 70053-4805	M 8/2/2010 WAM-AAA	Gary Thomas Howe Principal Zurich Insurance 20 Charlock Road Thetford, Norfolk, IP24 2TR Great Britain	I 11/30/2016 WAM-AAA
Daniel J. Hubert Principal Amerex/Janus Fire Systems 1102 Rupcich Drive Millennium Park Crown Point, IN 46307-7542 Fire Suppression Systems Association Alternate: William MacKay	M 7/17/1998 WAM-AAA	Rick J. Jackson Principal Jackson Associates, Inc. 1111 Oakley Park, Suite 201 Walled Lake, MI 48390-1364 American Fire Sprinkler Association Alternate: Daniel W. Briggs	IM 1/14/2005 WAM-AAA

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Water Mist Fire Suppression Systems

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John H. Miller Principal US Coast Guard Commandant (CG-Eng-4) 2703 MLK Jr. Avenue SE Stop 7509 Washington, DC 20593-7509 Alternate: Sean Ramsey	E 04/14/2021 WAM-AAA	Milosh T. Puchovsky Principal Worcester Polytechnic Institute Department of Fire Protection Engineering 100 Institute Road Worcester, MA 01609	SE 8/5/2009 WAM-AAA
Steven Mark Purdy Principal Local 669 P.O. Box 1290 Silverton, OR 97381 United Assn. of Journeymen & Apprentices of the Plumbing & Pipe Fitting Industry Alternate: Charles W. Ketner	L 04/11/2018 WAM-AAA	Jason W. Ryckman Principal Canadian Automatic Sprinkler Association 315 Renfrew Drive Suite 302 Markham, ON L3R 9S7 Canada Alternate: Matthew Osburn	IM 04/02/2020 WAM-AAA
Lee Patrick Schmelyun Principal BFPE International 3466 Board Road York, PA 17406 Alternate: Riley M. Woiak	IM 12/02/2020 WAM-AAA	Larry D. Shackelford Principal Southern Company 3535 Colonade Parkway Bin N-603-EC Birmingham, AL 35243 Edison Electric Institute Alternate: Scott M. Bryant	U 04/03/2019 WAM-AAA
Mohamed Sorour Principal Deutschland Tech Company Lake view compound Villa 112/2 Cairo, 11835 Egypt	SE 08/08/2019 WAM-AAA	Brad T. Stilwell Principal Fike Corporation 704 South 10th Street Blue Springs, MO 64015-4263	M 7/24/1997 WAM-AAA
Dennis W. Taylor Principal Dooley Tackaberry, Inc. 1515 13th Street Deer Park, TX 77536 Alternate: Dagoberto Gonzalez	IM 12/06/2017 WAM-AAA	Scott Tweedie Principal US Department of the Navy Naval Surface Warfare Center Carderock Division 5001 South Broad Street Code 668 Philadelphia, PA 19112	E 3/2/2010 WAM-AAA

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Water Mist Fire Suppression Systems

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Kerry M. Bell Alternate UL LLC 333 Pfingsten Road Northbrook, IL 60062-2096 Principal: Jeff Hebenstreit	RT 4/15/2004 WAM-AAA	Daniel W. Briggs Alternate Jackson Associates Inc. 1111 West Oakley Park Road Walled Lake, MI 48390-1364 American Fire Sprinkler Association Principal: Rick J. Jackson	IM 08/11/2014 WAM-AAA
Scott M. Bryant Alternate Fire & Risk Alliance LLC Managing Partner 7640 Standish Place Rockville, MD 20855 Edison Electric Institute Principal: Larry D. Shackelford	U 04/03/2019 WAM-AAA	Andrew S. Carmean Alternate US Department of the Air Force 139 Barnes Drive, Suite 1 Tyndall AFB, FL 32439 Principal: Raymond N. Hansen	E 08/11/2020 WAM-AAA
Lawrence R. Carmen Alternate Victaulic Company of America 4901 Kesslersville Road Easton, PA 18040-6714 Principal: Robert J. Ballard	M 11/30/2016 WAM-AAA	Bruce H. Clarke Alternate American International Group, Inc. (AIG) 110 Carolina Club Drive Spartanburg, SC 29306	I 08/17/2017 WAM-AAA
Dagoberto Gonzalez Alternate Dooley Tackaberry 1515 W.13th Street Deer Park, TX 77536 Principal: Dennis W. Taylor	IM 04/03/2019 WAM-AAA	Charles W. Ketner Alternate National Automatic Sprinkler Fitters LU 669 Joint Apprenticeship & Training Committee 7050 Oakland Mills Road Columbia, MD 20732 United Assn. of Journeymen & Apprentices of the Plumbing & Pipe Fitting Industry Principal: Steven Mark Purdy	L 8/2/2010 WAM-AAA
Ruediger Kopp Alternate Fogtec Fire Protection Schanzenstrasse 19a Cologne, North Rhine Westfalia, 51063 Germany International Water Mist Association Principal: Max Lakkonen Voting Alt. to IWMA Rep.	M 03/07/2013 WAM-AAA	William MacKay Alternate Advanced Safety Systems, Inc. 141 Summit Street Peabody, MA 01960 Fire Suppression Systems Association Principal: Daniel J. Hubert	M 8/2/2010 WAM-AAA

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Sean Ramsey	E 08/03/2016	Maarit Tuomisaari	M 7/22/1999
Alternate US Coast Guard 2703 MLK Jr. Avenue Stop 7509 Washington, DC 20593 Principal: John H. Miller	WAM-AAA	Alternate Carrier/UTC/Marioff Corporation Building & Industrial Systems Plaza Business Park Halo Ayritie 24, P.O. Box 1002 Vantaa, FI 01511 Finland Principal: Joseph C. Barter	WAM-AAA
Riley M. Woiak	IM 12/02/2020	Hong-Zeng Yu	I 10/10/1997
Alternate BFPE International 7512 Connelley Drive, Suite G Hanover, MD 21076 Principal: Lee Patrick Schmelyun	WAM-AAA	Alternate FM Global 1151 Boston-Providence Trmpk PO Box 9102 Norwood, MA 02062-9102 Principal: Robert Kasiski	WAM-AAA
Douglas J. Pickersgill	SE 1/1/1994	Fernando Vigara	SE 7/1/1993
Nonvoting Member Fire and Safety Systems 6 Bart Place, Chapel Hill Brisbane, QLD Q4089 Australia	WAM-AAA	Nonvoting Member APICI Gta. Ruiz Jimenez, 3 Madrid, 28015 Spain	WAM-AAA
Baran Ozden	04/25/2019		
Staff Liaison National Fire Protection Association One Batterymarch Park Quincy, MA 02169-7471	WAM-AAA		



NATIONAL FIRE PROTECTION ASSOCIATION

The leading information and knowledge resource on fire, electrical and related hazards

NFPA Technical Committee on Water Mist Fire Suppression Systems (WAM-AAA)

NFPA 750 FIRST DRAFT MEETING MINUTES

Web/Teleconference Meeting

November 4, 5, and 11, 2020

Wednesday November 4:

1. Committee Robert Kasiski called the meeting to Order at 11:02 am (EST).
2. Meeting Attendance and Introductions conducted.
3. First Draft meeting agenda was reviewed and accepted.
4. Minutes of previous second draft meeting held on October 16&17, 2017 was reviewed and approved.
5. NFPA Staff Liaison presented the Standards development process and reviewed key dates in current cycle.
6. Chairman made remarks regarding committee members.
7. Technical committee started acting on public inputs (18) for NFPA 750
8. Meeting recessed at – 3:00 pm (EST)

Thursday November 5:

1. Committee Robert Kasiski called the meeting to Order at 11:00 am (EST).
2. Technical committee continued acting on public inputs (18) for NFPA 750
3. Meeting recessed at – 3:00 pm (EST)

Thursday November 11:

1. Committee Robert Kasiski called the meeting to Order at 11:00 am (EST).
2. Technical committee continued acting on public inputs and committee inputs for NFPA 750.
3. Task Groups 1,2, 3, and 8 were disbanded, Task Groups 4, 5, 6, and 7 were kept in order to work on potential public comments and second draft revisions:
 - a. Task Group 4: NFPA 20
 - i. Chair: Gerard Back
 - ii. Members: Brad Stilwell
 - b. Task Group 5: Electronically Operated Nozzles
 - i. Chair: Bruce Clarke
 - ii. Members: Sean Cutting, Kerry Bell, Max Lakkonen, Joseph Barter, Gary Howe, Larry Carmen
 - c. Task Group 6: Compression Type Connections
 - i. Chair: Dan Hubert
 - ii. Members: Larry Shackelford, Dennis Phillips, Bob Ballard

- d. Task Group 7: NFPA 25
 - i. Chair: Kerry Bell
 - ii. Members: Gerard Back
- 4. Meeting adjourned at – 1:50 pm (EST)

Attendance:

Robert Kasiski, Chair
Gerard Back
Robert Ballard
Joseph Barter
Sean Cutting
Paul Felch
Raymond Hansen
Jeff Hebenstreit
Eric Houin
Gary Howe
Daniel Hubert
Rick Jackson
Milosh Puchovsky
Steven Purdy
Jason Ryckman
Mohamed Sorour
Brad Stilwell
Scott Tweedie
Sean Ramsey
Kerry Bell
Andrew Carmean
Lawrence Carmen
Bruce Clarke
Dagoberto Gonzalez
Ruediger Kopp
Dennis Phillips
Bert (Hong-Zeng) Yu
Baran Ozden, NFPA Staff Liaison
Chad Duffy, NFPA Staff
Thomas Harris, NFPA Staff

Guests:

Jonathan Carpenter, FM Global
Jerry Poston, Johnson Controls International
Mark Fessendan, Johnson Controls International



Public Comment No. 19-NFPA 750-2021 [Sections 1.2.2, 1.2.3]

Sections 1.2.2, 1.2.3

1.2.2

The purpose of this standard for low-rise occupancies ~~and in accordance with section 10.3.1 and one- and two-family dwellings in accordance with section 10.3.2~~ shall be to provide the requirements for a water mist system that aids in the detection and control of residential fires and, thus, provides improved protection against injury, life loss, and property damage.

1.2.3

For low-rise occupancies in accordance with section 10.3.1 and one- and two-family dwellings in accordance with section 10.3.2, a water mist system shall be designed and installed in accordance with this standard to prevent flashover (total involvement) in the room of fire origin where water mist nozzles are installed, and to improve the ability of occupants to escape or be evacuated.

Statement of Problem and Substantiation for Public Comment

This proposed revision makes clear that this new language in the scope of the document is specific to the sections noted in Chapter 10.

Related Item

- FR-27

Submitter Information Verification

Submitter Full Name: Roland Asp

Organization: National Fire Sprinkler Association

Affiliation: NFSA Engineering And Standards Committee

Street Address:

City:

State:

Zip:

Submittal Date: Tue May 11 15:47:39 EDT 2021

Committee: WAM-AAA



Public Comment No. 2-NFPA 750-2021 [Global Input]

Chapter 1

1.4 Retroactivity. The provisions of this standard reflect a consensus of what is necessary to provide an acceptable degree of protection from the hazards addressed in this standard at the time the standard was issued

Changed to:

1.4 Retroactivity. The provisions of this standard reflect a consensus of what is necessary to provide an acceptable degree of protection from the hazards addressed in this standard and the hazards classified by the Internationally Recognized Agencies (see Table C.1.2)

Statement of Problem and Substantiation for Public Comment

The hazard classification in this standard is limited so we can refer to the classifications in the internationally recognized agencies which is based on real experiences.

Related Item

- Hazard classification

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

State:

Zip:

Submittal Date: Wed May 05 15:21:34 EDT 2021

Committee:



Public Comment No. 15-NFPA 750-2021 [New Section after 3.3.25.3]

3.3.25.4 Electronically-Operated Automatic Water Mist Nozzles

Nozzles that are normally closed and operated by electrical energy supplied to the nozzle that is initiated by fire detection and control equipment.

Statement of Problem and Substantiation for Public Comment

As recommended by the TG for PI 5

We manufacture a nozzle which electronically verifies there is a fire and its location (using a thermopile infrared imaging sensor) and which also controls whether it is open or closed (using a servo motor controlled valve incorporated in the nozzle). Details of our product can be found on our website: www.plumis.com. Videos of the system in operation can be found at: <https://www.youtube.com/user/PlumisAutomist>.

This nozzle type does not fall within the existing definitions in NFPA 750. It is automatic but not mechanical.

Johnson Controls already has an electrically operated Listed nozzle which uses a solenoid for flow control and a detection systems for activation and NFPA 13 is being revised to incorporate that. Our interpretation of the difference between electrically and electronically operated nozzles is that electrically is only a binary control of flow/no flow while an electronically controlled is analog in that it could control amount of flow or direction of flow.

It is expected for this system to be Listed at the time that the draft is reviewed.

Related Public Comments for This Document

<u>Related Comment</u>	<u>Relationship</u>
Public Comment No. 16-NFPA 750-2021 [New Section after 3.3.27.10]	
	<u>Related Item</u>
• Public Input No. 12-NFPA 750-2020 [New Section after 3.3.25.3]	• Public Input No. 5-NFPA 750-2020 [New Section after 3.3.25]

Submitter Information Verification

Submitter Full Name: William Makant
Organization: Plumis Ltd UK
Affiliation: Plumis Ltd UK
Street Address:
City:
State:
Zip:
Submittal Date: Fri May 07 06:04:59 EDT 2021
Committee: WAM-AAA



Public Comment No. 16-NFPA 750-2021 [New Section after 3.3.27.10]

3.3.27.11 Targeted Water mist System

A system where one or more electronically operated water mist nozzles discharge water directly toward a fire or in an area surrounding the fire.

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
Directional_and_zones.1592469415048.jpg	Targeted watermist system	

Statement of Problem and Substantiation for Public Comment

This is an alternative Approach to TG Recommendation for PI 7 which is a similar to NFPA 13 action for electrically operated nozzles

We manufacture a system which electronically verifies there is a fire and its location (using a thermopile infrared imaging sensor) and which also controls whether it is open or closed (using a servo motor-controlled valve incorporated in the nozzle). Details of our product can be found on our website: www.plumis.com. Videos of the system in operation can be found at: <https://www.youtube.com/user/PlumisAutomist>.

This system type does not fall within the existing definitions in NFPA 750. It is neither a deluge nor a zoned application system in that the portion of the compartment to be protected is not predetermined. Johnson Controls already has an electrically operated Listed system which uses a solenoid for flow control and a detection systems for activation and NFPA 13 is being revised to incorporate that. However, that is still a deluge system is that it still operates on the same principle as a mechanical automatic nozzle, just faster and more accurately. This is different in that the nozzle will only discharge at part of a room, where it has identified the fire is located.

It is expected for this system to be Listed at the time that the draft is reviewed.

Related Public Comments for This Document

<u>Related Comment</u>	<u>Relationship</u>
Public Comment No. 15-NFPA 750-2021 [New Section after 3.3.25.3]	
• Public Input No. 7-NFPA 750-2020 [New Section after 3.3.26.8]	<u>Related Item</u>

Submitter Information Verification

Submitter Full Name: William Makant
Organization: Plumis Ltd UK
Affiliation: Plumis Ltd UK
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City:
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Zip:
Submittal Date: Fri May 07 06:14:36 EDT 2021

Committee:

WAM-AAA



Public Comment No. 14-NFPA 750-2021 [Section No. 5.1.2]

5.1.2* Ordinary Hazard (Group 1) (OH1).

Ordinary hazard (Group 1) occupancies shall be defined as occupancies or portions of other occupancies where the quantity and combustibility of the contents do not exceed the amount of miscellaneous storage of ~~Class 2, 3, 4, plastics, tires, and roll paper provided~~ Class 1 and Class 2 commodities provided in Table 4.3.1.7.1.1 of NFPA 13.

Statement of Problem and Substantiation for Public Comment

As currently written, Section 5.1.2 could be interpreted to mean that limited quantities of plastics, tires, and roll paper could be categorized as OH1.

Related Item

- CI

Submitter Information Verification

Submitter Full Name: Sean Cutting

Organization: Johnson Controls

Street Address:

City:

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Zip:

Submittal Date: Thu May 06 10:39:06 EDT 2021

Committee: WAM-AAA



Public Comment No. 8-NFPA 750-2021 [Global Input]

Type your content here ...

Chapter 5

5.2.2* Specific applications include hazards and conditions similar to the following:

- (1) Machinery spaces
- (2) Combustion turbines
- (3) Wet benches and other similar processing equipment
- (4) Local application
- (5) Industrial oil cookers
- (6) Computer room raised floors
- (7) Chemical fume hoods
- (8) Continuous wood board presses

new added hazards:

- (9) Cable Tunnels
- (10) Flammable Liquids
- (11) Flammable Liquid Storages
- (12) Laboratories (see NFPA 45)

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
DOC_2_-_applications.pdf	Special Hazards	

Statement of Problem and Substantiation for Public Comment

to increase the types of special hazards which is approved by third party.

Related Item

- Special Hazards

Submitter Information Verification

Submitter Full Name: Mohamed Sorour
Organization: Deutschland Tech Company
Street Address:
City:
State:
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Submittal Date: Thu May 06 03:44:37 EDT 2021
Committee:



Public Comment No. 3-NFPA 750-2021 [Global Input]

Chapter 6

6.3.6.2 Bending tools shall be used for all bending in accordance with the following:

(3) Flattened bends where the larger diameter is greater than 1.08 times the least diameter shall not be permitted

New Paragraph:

(4) Bending tools shall be listed for proper operating conditions.

Statement of Problem and Substantiation for Public Comment

Bending tools may harm the pipework if it is not tested for installing similar tubes
Bending tools must not be used for non tested diameters for the safety of employees

Related Item

- installation tools

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

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Submittal Date: Wed May 05 15:44:40 EDT 2021

Committee:



Public Comment No. 5-NFPA 750-2021 [Global Input]

Chapter 6

6.9.1.7 Unloader Valves. Unloader valves shall be part of a listed pump assembly or be listed separately

corrected to:

6.9.1.7 Unloader Valves. Unloader valves shall be part of a listed pump assembly or be listed separately (If it is a part of the system).

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
DOC_1_-_Approved_EPU_without_Unloader_Valve.pdf	Approved system without unloader valve	

Statement of Problem and Substantiation for Public Comment

Unloader valve in not a part of some types of electric pump units

Related Item

- Unloader valve is optional

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

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City:

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Submittal Date: Wed May 05 16:48:05 EDT 2021

Committee:



Public Comment No. 11-NFPA 750-2021 [Global Input]

Chapter 6

New Paragraphs

6.12 The foam concentrate Shall be suitable for use in water mist systems and released for this purpose in accordance with its listing

6.13 Foaming agent unit, Foam tanks and components permanently in contact with foam concentrate shall be listed individually or part of the system.

Appendix A

New Graph

New Graph for Foam Tank unit to be added as per bilge foam system attached DIOM, page 27

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
DS_FTU_2000500005.pdf	Foam Tank Unit	
32_IMO_Bilge_Foam_System_DIOM12_Revision_1.1.pdf	Bilge Foam System	

Statement of Problem and Substantiation for Public Comment

Foam Tank Unit graph to be part of appendixes as a guide to the end user

Related Item

- Foam Tank Unit - Graph

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

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Submittal Date: Thu May 06 04:11:56 EDT 2021

Committee:



Public Comment No. 17-NFPA 750-2021 [New Section after 7.2.4.4]

7.2.5 Electronically-Operated Water Mist Nozzle Systems

7.2.5.1 Electronically operated water mist nozzle systems shall be designed and installed to provide automatic fire protection for specific hazards, or throughout a building or occupancy as indicated in the listing.

Statement of Problem and Substantiation for Public Comment

This is an alternative Approach to TG Recommendation for PI 7 which is a similar NFPA 13 action for electrically operated nozzles.

Related Item

- Public Input No. 7-NFPA 750-2020 [New Section after 3.3.26.8

Submitter Information Verification

Submitter Full Name: William Makant
Organization: Plumis Ltd UK
Affiliation: Plumis Ltd UK
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Zip:
Submittal Date: Tue May 11 05:41:52 EDT 2021
Committee: WAM-AAA



Public Comment No. 18-NFPA 750-2021 [Section No. 7.3]

7.3 Nozzle Types.

Water mist nozzles shall be classified as one of the following three types:

- (1) Automatic
- (2) Nonautomatic
- (3) Multifunctional
- (4) Electronically-operated

Statement of Problem and Substantiation for Public Comment

As recommended by the TG for PI 8

Creates consistency with the added definitions in 3.3.25 and 3.3.27

Related Item

- Public Input No. 8-NFPA 750-2020 [New Section after 7.4]

Submitter Information Verification

Submitter Full Name: William Makant

Organization: Plumis Ltd UK

Affiliation: Plumis Ltd UK

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City:

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Zip:

Submittal Date: Tue May 11 05:44:54 EDT 2021

Committee: WAM-AAA



Public Comment No. 9-NFPA 750-2021 [Global Input]

Chapter 8

8.1.5 Installation and Testing Procedures. Manufacturers shall provide installation and testing procedures to ensure that the system is installed and will operate as intended.

Changed to:

8.1.5.1 The system design shall be reviewed by a 3rd and installed in accordance with installation manual by installer experts.

8.1.5.2 Unless the requirements of 8.1.5.1 are met, the installation shall be inspected by a 3rd party

Statement of Problem and Substantiation for Public Comment

The installation shall be checked and reviewed to comply with the manufacturer instructions

Related Item

- Installation Inspection

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

State:

Zip:

Submittal Date: Thu May 06 03:55:30 EDT 2021

Committee:



Public Comment No. 12-NFPA 750-2021 [Global Input]

Chapter 9

New paragraph

9.2.6.3 The design area shall not be less than the values of Table 23.4.4.7.2 of NFPA 13

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
NFPA_13_-_Design_Area.pdf	Design Area as per NFPA 13	

Statement of Problem and Substantiation for Public Comment

To specify minimum limitation of the design area

Related Item

- Design Area

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

State:

Zip:

Submittal Date: Thu May 06 04:18:27 EDT 2021

Committee:



Public Comment No. 4-NFPA 750-2021 [Global Input]

Chapter 10

10.1.2.2.1 The lower duration value in Table 10.1.2.1.1 shall be permitted where the system water flow alarm device or devices and supervisory devices are electrically supervised and such supervision is monitored at an approved, constantly attended location

New Paragraph:

Minimum of one hose are taken into account for hydraulic calculation for the lower duration values in table 10.1.2.1.1

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
FTS015_Manual_fire_fighting_hydrant_.pdf	Water mist hose reels	

Statement of Problem and Substantiation for Public Comment

The water mist hose reels are part of water mist systems, and shall be considered for hydraulic calculations to prevent water supplies failure in case of fire.

Related Item

- Manual Hose Reels

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

State:

Zip:

Submittal Date: Wed May 05 16:01:27 EDT 2021

Committee:



Public Comment No. 10-NFPA 750-2021 [Global Input]

Chapter 12

New paragraph

12.5.2.4.3 Gas pump unit. a pneumatic pump unit Powered by pressurized gases.

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
GPU_Datasheet.pdf	GPU Datasheet	

Statement of Problem and Substantiation for Public Comment

To guide the end users to the limited power source solutions

Related Item

- GPU - Limited power solution

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

State:

Zip:

Submittal Date: Thu May 06 04:02:49 EDT 2021

Committee:



Public Comment No. 13-NFPA 750-2021 [Global Input]

Annex A

New figure for electric pump unit without unloader to be added

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
K0014077_revJ.pdf	Electric pump unit datasheet	

Statement of Problem and Substantiation for Public Comment

some listed systems for water mist systems work without an unloader valve so the unloader valve is an optional item

Related Item

- EPU - without Unloadervalve

Submitter Information Verification

Submitter Full Name: Mohamed Sorour

Organization: Deutschland Tech Company

Street Address:

City:

State:

Zip:

Submittal Date: Thu May 06 09:25:44 EDT 2021

Committee:



Public Comment No. 7-NFPA 750-2021 [Global Input]

Annex A

A.1.2 Water mist systems are specialized fire protection Systems. Design and installation of these systems necessitates specialized training, knowledge, and experience.

Changed to:

A.1.2 Water mist systems are specialized fire protection Systems. Design and installation of these systems necessitates specialized training, knowledge, and experience.

& certified installers

Additional Proposed Changes

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
DT-VdS_Installer_Cert..pdf	Third Party certification	

Statement of Problem and Substantiation for Public Comment

The installation shall be reviewed and inspected by a third party

Related Item

- Installation Certificate

Submitter Information Verification

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Submittal Date: Thu May 06 03:28:37 EDT 2021

Committee:



Public Comment No. 1-NFPA 750-2021 [Section No. A.4.1]

A.4.1

A water mist system is a water-based fire protection system using very fine water sprays (i.e., water mist). The very small water droplets allow the water mist to control or extinguish fires by cooling of the flame and fire plume, oxygen displacement by water vapor, radiant heat attenuation, and prevention of fire spread by pre-wetting of combustibles.

Water mist systems have proved effective in controlling, suppressing, or extinguishing many types of fires. Potential applications include the following:

- (1) Gas jet fires
- (2) Flammable and combustible liquids, including storage
- (3) Hazardous solids, including fires involving plastic foam furnishings
- (4) Protection of aircraft occupants from an external pool fire long enough to provide time to escape
- (5) Ordinary (Class A) combustible fires such as paper, wood, and textiles
- (6) Occupancy classifications in accordance with Chapter 5
- (7) Electrical hazards, such as transformers, switches, circuit breakers, rotating equipment, and cable tunnels
- (8) Electronic equipment, including telecommunications equipment
- (9) Highway and railway tunnels (*see NFPA 502*)
- (10) *Fighter aircraft hangars, light aircraft hangars, and helicopter hangars - Aircraft hanger applications shall be removed as there are no reference or National Recognized Testing Laboratory do have a testing protocol to test the water mist fire protection performance in aircraft applications. NFPA 409 does not have any requirements for water mist in all hanger types. keeping it general will lead to incorrect installation for not tested system to be installed. More details shall be provided before adding application like aircraft hangars (ceiling protection only, low level protection or combined =)*

Statement of Problem and Substantiation for Public Comment

Incorrect installations for non tested systems will lead for Aircraft Hanger applications will lead to big problem and losing lives. Providing applications without any details about the design and installation for aircraft hangars will lead to installation of non tested systems.

Related Item

- PI

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Submittal Date:	Mon Mar 29 14:02:58 EDT 2021
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