



Optimizing health care facilities

ASHE Advocacy Efforts Update

Healthcare Engineers Society of Northern Illinois

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a professional membership group of the American Hospital Association
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Agenda

1. NFPA Update
2. ASHRAE Update
3. Sustainability
4. ICC Update
5. FGI Update
6. 2021 MTTF Topics
7. COVID – 19 Resources
8. ASHE YouTube
9. Additional ASHE Advocacy Initiatives
10. Questions/Discussion

NFPA Update

NFPA Standards

- 2021 Editions now available
- 2022 - NITMAM = NFPA 10, 13, 72, 101A and 110,
 - NITMAM Closing Date: February 17, 2021
- 2023 - Public Comment = 14, 25 and 70
 - Public Comments due by January 5, 2022
- 2024 - Public Input = 70E, 90A&B, 99, 101, and 5000
 - Public Input Closing Date: 1 June 2021

NFPA Standards

- Can find information
 - nfpa.org/#
 - Next Edition Tab
- If you have issues now is the time to submit public input!
 - <https://www.ashe.org/commentdevideos>
- If you have questions/concerns with language submit RFI to HITF
 - <https://www.nfpa.org/Codes-and-Standards/Standards-development-process/Technical-Committees/Advisory-and-Non-NFPA-Committees/Healthcare-Interpretations-Task-Force#INTERPRETATIONS>
- Contact your Advocacy Liaison
 - Donnley Phillips donnley.phillips@medxcelfm.com

NFPA 25

- Provided Technical Committee with Research Information
 - Sprinkler System Support Analysis
 - Committee Input No. 116-NFPA 25-2020



Committee Input No. 116-NFPA 25-2020 [Section No. 5.2.2.2]

Original

Hide Markup

5.2.2.2

Sprinkler piping and hangers shall not be ~~subjected to external loads by materials either resting on the pipe or hung from the pipe~~ used to support non-system components.

5.2.2.3

Nonmetallic sprinkler pipe shall not be subjected to non-system components touching the pipe .

Submitter Information Verification

Committee: INM-AAA

Submittal Date: Tue Nov 10 20:50:43 EST 2020

Committee Statement

Committee Statement: Clarifying that what is in contact with the metallic pipe must be subjecting the pipe to weight to be an issue.

Response Message: CI-116-NFPA 25-2020

- Monthly Inspection covered with Annual Inspection



First Revision No. 52-NFPA 10-2019 [Section No. 7.3.2.1]

[Original](#) [Committee](#) [Hide Deleted](#)

7.3.2.1 Physical Condition.

An annual external visual examination of all fire extinguishers shall be made to detect obvious physical damage, corrosion, or nozzle blockage to verify that the operating instructions are present, legible, and facing forward, and that the HMIS information is present and legible, and to determine if a 6-year interval examination or hydrostatic test is due.

7.3.2.1.1

At the time of the annual external visual examination, a check of at least the inspection items of 7.2.2 shall be conducted.

7.3.2.1.2 Record.

7.3.2.1.2.1

The record for the annual visual examination, including 7.3.2.1.1, shall be permitted to be recorded as required by 7.3.4.

7.3.2.1.2.2

The record for the annual visual examination, including 7.3.2.1.1, shall not be required to be recorded in accordance with 7.2.4.

Submitter Information Verification

Committee: PFE-AAA

Submittal Date: Thu Sep 26 13:30:37 EDT 2019

Committee Statement

Committee Statement: Currently there have been AHJ's citing hospitals for not performing a monthly inspection during the month that the annual inspection is performed. This addition of the monthly inspection requirements within Section 7.2.2 will clearly indicate that the annual inspection should include the monthly inspection and that when an annual inspection is performed it will cover all aspects of the monthly inspection avoiding these types of citations.

Response Message: FR-52-NFPA 10-2019

[Public Input No. 179-NFPA 10-2019 \[Section No. 7.3.2.1\]](#)

[Public Input No. 122-NFPA 10-2019 \[Section No. 7.3.2.1\]](#)

NFPA Research

- Door Gap
 - Completed 9 sets of doors
 - Have a couple more to complete
- Will be used to advocate for door gap changes
- Plug Load Demand Tables
 - Has been delayed due to pandemic
 - Moving forward with recordings
- Will be used to advocate for updated electrical demand tables
- Cybersecurity standards for alarm systems

How to submit public comment or NITMAM

- If you have issues now is the time to submit public comment!
 - <https://www.ashe.org/commentdevideos>
- Contact your Advocacy Liaison
 - They are trained to help guide chapter members through process

ASHRAE Update

ASHRAE Overview

- ASHRAE/ASHE 170 Ventilation for Healthcare Facilities
 - To republish 2021
 - Planned to be included in all 3 FGI Guidelines
- ASHRAE 514 Risk Management for Building Water Systems: Physical, Chemical, and Microbial Hazards
 - Working with the Committee to develop standard
 - Advisory Public Review March 2021
- ASHRAE/ASHE 189.3 Design, Construction and Operation of Sustainable High-Performance Health Care Facilities
 - Finalizing alignment with 189.1 and 90.1
- ASHRAE 100 Energy Efficiency in Existing Buildings
 - ASHE representation on the SSPC

ASHRAE/ASHE 170 - 2021

- Following 2017 addenda to be included in update
 - Addendum a – Align Filter Requirements in Tables
 - Addendum b – Removes spaces covered in other standards
 - Addendum c – Guidance on incorporating air classifications
 - Addendum d – Outdoor Air Intakes
 - Addendum e – Testing of Drain Pans
 - Addendum g – Harmonization of non-healthcare spaces
 - Addendum h – Guidance on thermal comfort
 - Addendum i – Clarification of water used for humidification
 - Addendum j – Tables 8.1 (Specialty) and 8.2 (General) Outpatient spaces

ASHRAE/ASHE 170 - 2021

- Following addenda to be included in update
 - Addendum k – Table 9.1 Residential Health, Care and Support Spaces
 - *Addendum l – Align Space Names with FGI*
 - Addendum m – Align Behavioral and Mental Health terminology with FGI
 - Addendum n – Continues reorganization into 3 components
 - Addendum p – Unoccupied turndown and filtration alignment
 - Addendum q – Adds resident to differentiate from patient
 - Addendum r – Clarification of Nursing Home ventilation and filtration requirements
 - Addendum s – Clarification for All Rooms

ASHRAE Continuous Maintenance

- Continuing to work on additional addenda for several standards

- Watch for notices within



CODES & STANDARDS

ASHRAE 188 addendum open for full public review

Members are encouraged to comment on the ASHRAE 188 Legionellosis: Risk Management for Building Water Systems standard by Dec. 6.

HFM

Sustainability

Sustainability in Advocacy in 2021

- New Administration brings new vision for a sustainable future
 - Establish an enforcement mechanism that includes milestone targets no later than 2025
 - More important than ever for clean/accurate data to work with potential changes from new administration
- EPA relies on ASHE member surveys to update ENERGY STAR scoring.
 - New scores are going to be published next month.
 - ENERGY STAR is providing a free webinar on Jan. 19 with more information to learn how the EPA updated the score based on recent data from the American Society for Health Care Engineering, the key energy drivers in hospitals and weather adjustments.

ICC Update

ICC

- 2021 ICC Code Development Cycle (Group A = Majority of IBC, IFC, IMC, IPC, etc.)
 - Deadline 11 January 2021 – **ICC CHC Submitted 14 proposals**
 - Posting of proposed changes = 1 March 2021
 - Committee Action Hearings = 11 April – 5 May (Virtual)
 - Online CAH Assembly Floor Motion Vote = 2 weeks following CAH's
 - Posting of CAH Report = 24 May 2021
 - Deadline for public comments = 2 July 2021
 - Posting of PC Agenda = 13 August 2021
 - Public Comment Hearings = 22 – 29 September, Pittsburgh, PA
 - Annual Conference = 19 – 22 September
 - Online Governmental Consensus Vote = 2 weeks following PCH's
 - Web Posting of Final Action = Following Certification

ICC Code Action Hearings (CAH)

- **2021 Virtual CAH:** The 2021 CAH, originally scheduled for April 11 – 21, 2021 in Rochester, NY has be rescheduled to be held virtually. The hearings will be held in two consecutive tracks, with a break in between. The tentative schedule is as follows:
 - Track 1: April 11 – 21, 2021: IBC – E; IBC – FS; IBC – G; IPMC/IZC; ISPSC
 - No Hearings: April 22 – 24
 - Track 2: April 25 – May 5, 2021: IFC/IWUIC; IFGC; IMC; IPC/IPSDC; IRC – M; IRC - P

ICC Committee on Health Care (CHC)

- ICC CHC Work Groups finalizing proposals for 2024 Cycle – Group A
 - 3 Work Groups
 - General
 - Fire and Safety
 - MEP
- Current proposals General Work Group:
 - **IMC 505 Domestic cooking hood equipment.** Revise to make more direct to only show additional criteria, not requirements already required.
 - **HC8** – definition for custodial care, incapable of self-preservation; and limited verbal assistance.

ICC Committee on Health Care (CHC)

- Fire/Fire Safety Current proposals:
 - **Non-production Laboratories.** Changing of Higher Education Laboratory to Non-production laboratory
 - **Control Vestibule** – Allowance of interlocked vestibule doors
 - **Lay-in Ceiling Tile Smoke Tight** – Allowance of 1 pound ceiling tiles being allowed to be smoke tight barrier allowing corridor walls to terminate at ceiling

ICC Committee on Health Care (CHC)

- MEP Current proposals:
 - **Transfer Air** – Changes one exemption for “Air movement in corridors” section of the IBC. The new proposed wording says, “Transfer air movement required to maintain pressurization difference within health care facilities in accordance with Section 407.1 of the International Mechanical Code”
 - **K912** – Electrical Systems (Receptacles) – Adds a new section to allow for all health care occupancy electrical (not just essential electrical) to comply with NFPA 99 and Article 517 of NFPA 70 – Helps solve wet locations issue within health care

ICC Committee on Health Care (CHC)

- MEP Current proposals:
 - **K903** - Gas and Vacuum Piped Systems Categories – Adds clarifying language to the nonflammable medical gas section of the plumbing code
 - **K904** - Gas and Vacuum Piped Systems Warning Systems – Adds the phrase “warning systems” to the medical gas systems section of the IFC
 - **Cold Water Handwashing** – Adds the allowance that handwashing sinks in health care occupancies are allowed to supply “cold water” which is proposed to be less than 85 degrees (Tempered water is 85-110) – This is an attempt to allow facilities to reduce temperatures at sinks and get out of water born pathogen temperature range as well as reduce some of the energy needed to supply tempered water.

FGI Update

FGI 2022 Editions

- Draft Guidelines, including HGRC comments, finalized
- FGI Emergency Conditions Guidelines:
 - Drafted and to be open for public comment beginning of February
 - To be an adoptable guideline
 - To address various timeframes
 - Immediate, Temporary, Semi-permanent, Permanent
 - New Disaster emergency Risk Assessment

FGI 2022 Updates

- Acoustical
 - Safety Risk Assessment
 - Added recommendation for an acoustics and noise risk assessments
 - Acoustics for Telemedicine Spaces
 - 0.25 noise reduction coefficient (exam room is 0.15 NRC)
 - Interior space noise caused by building system 25 NC 30 dBA (patient room is 40 NC and 45 dBA)

FGI 2022 Updates

- Laura's Law
 - Emergency Access
 - Video Surveillance System at public entrances
 - Duress alarm system where entrances are locked
- AIIR
 - Need to analyze need
 - Anterooms determined by ICRA and to include space for donning/doffing
- WAGD Systems
 - Language now requires WAGD anywhere inhalation anesthesia is administered

FGI 2022 Updates

- Hospice and/or Palliative Care Units
 - Minimum Room Dimensions
 - 153 sq. ft. clear floor area
 - In renovation – may be reduced to 120 sq. ft
 - Minimum headwall of 10 feet
 - Room size includes 33 sq. ft. of family support zone
- ER Low Acuity Pods
 - 40 sq. ft. clear floor area
 - 5'-6" minimum clear dimension
- Behavioral Health Crisis Unit
 - Readily accessible to emergency department

FGI 2022 Updates

- Freestanding Emergency Departments
 - Low acuity pods are permitted
 - Flexible secure treatment room
 - Can be used as single patient room is designed properly
 - Hand-washing station can be located outside the room
 - Room shall have a max. wall length of 12 feet
 - If provided, the behavioral health crisis unit would be equivalent to Hospital Guidelines
- Extended Stay Centers
 - Intended for patients who are stable and do not need intensive monitoring or hospital-level care but may not be able to go home the same day as a procedure or visit to an emergency facility.

2021 MTTF Topic Update

MTTF Topics

| Topic | ID | Avg | Full | Short | Adv |
|--|--------|-------|------|-------|------|
| Ventilation Management Plan | IP-04 | 17.93 | Mar | | |
| Potential conflicts between regulations, codes and standards | R-07 | 16.40 | | | June |
| Plant operations and maintenance labor recruitment and training | A-04 | 12.33 | | May | |
| ICRA 2.0 | C-05 | 12.07 | May | | |
| Temperature, humidity, pressures in special procedure rooms | OM-02 | 11.93 | | J/F | |
| Capital Planning Tools for long term Infrastructure Planning | PD-01 | 9.93 | Apr | | |
| Determining the appropriate staffing levels | OM-04 | 8.60 | | N/D | |
| Corridor Clutter/ Blocking exit egress/Locking issues - pandemic | ITL-01 | 8.60 | | | J/F |
| Safety Risk Assessment Tool as per the FGI Guidelines | PD-08 | 7.67 | | | Sept |
| Risk assessment for maintenance activities | IP-01 | 7.00 | Sept | | |
| Risk Assessment for Alternative Practices | FS-02 | 6.60 | | Mar | |
| Upcoming changes in code/NFPA code change submission | R-04 | 6.00 | J/F | | |
| ILSM Requirement Review | C-06 | 5.93 | | | May |
| Productivity measurements | OM-03 | 5.67 | N/D | | |
| High risk medical equipment and utility inventory management | OM-09 | 5.47 | | Sept | |
| 101 LSC Updates along with all other codes relating to the 101 LSC | R-11 | 5.20 | | | Mar |

MTTF Topics

| Topic | ID | Avg | Full | Short | Adv Adv |
|---|--------|------|------|-------|---------|
| Continued guidance on improving energy efficiency since COVID | Sus-05 | 5.20 | | Aug | |
| Life Safety drawings - importance and use | R-14 | 5.13 | July | | |
| Capital renewal planning, operational planning, repair & replacement | OM-15 | 5.07 | June | | |
| Alternative Maintenance Program | OM-05 | 5.00 | | | July |
| Long term PANDEMIC disaster preparedness tools, checklists, etc. | IP-03 | 4.93 | | June | |
| Applications for UV use within HVAC | IP-09 | 4.93 | | July | |
| Design that complies with all standards and regulations | PD-04 | 4.47 | | | Apr |
| Continued guidance on life safety code compliance and anti-ligature | FS-03 | 4.27 | | Oct | |
| Master planning to secure funding | PD-09 | 4.13 | | Apr | |
| Operational master planning, how to develop- need a template | OM-14 | 3.60 | Oct | | |
| Salary comparisons for front line staff | F-04 | 3.60 | N/D | | |
| Development of systems and processes to aid in bridging the gaps to make facilities ready for accreditation day one | PD-10 | 3.53 | Aug | | |
| Bulk Oxygen Storage/Med Gas - pandemic | ITL-02 | 3.47 | | | Aug |
| Mold and HVAC System | ITL-04 | 3.40 | | | Oct |
| Applying healthcare codes in business occupancies | R-03 | 3.07 | | | N/D |

COVID-19 Resources

COVID-19 Resources for Health Care Facilities

www.ashe.org/covid19resources

- ASHE has created a resource page to assist health care facilities professionals in their efforts to reduce the spread of COVID-19. The resources cover critical operations such as air quality, safety and security, emergency preparedness and infection prevention.
- Please bookmark this page and check back often as we continue to update this information as needed.

Project Firstline



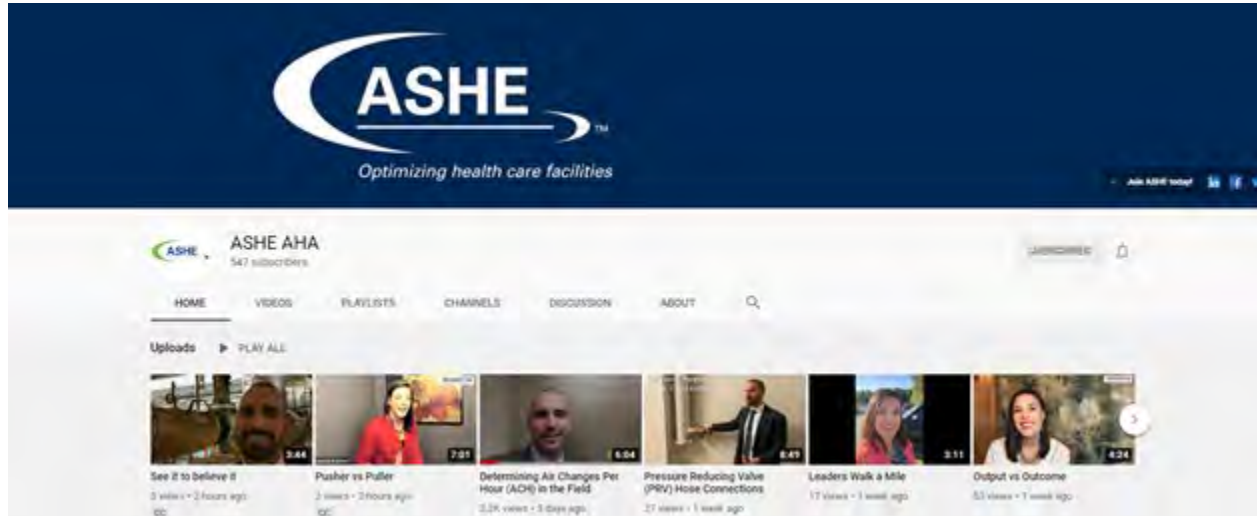
Project Firstline

An Infection Prevention and Control Training Collaborative

Project Firstline is a CDC national training collaborative offering timely infection control training to front line health care workers and the public health workforce in the fight against infectious disease threats. As a key partner in this initiative, AHA is pleased to help bring this critical training opportunity to the health care field and champion sound decision-making and positive behaviors in a time of crisis.

ASHE YouTube

ASHE YouTube Channel



- M&O
- Soft Skills
- ECM's
- www.youtube.com/user/asheaha

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Additional ASHE Advocacy Initiatives 2021

Rapid Response Team

- Team of Healthcare Facility Managers, Infection Preventionist, Compliance and Safety Officers, Designers, and AHJ's
- Discuss issues and strategize resources regarding
 - Concerns in National News
 - Immediate Threat to Life
 - CMS concerns
 - Accrediting Organizations concerns
 - NFPA Codes and Standards
 - ICC
 - FGI
 - ASHRAE

Spare Breaker Position

- Effective January 1, 2021, if a TJC surveyor sees a circuit breaker labeled as a spare on the circuit breaker legend or panel schedule but it is in the “on” position, the organization will receive a requirement for improvement (RFI). This finding would be scored under Joint Commission Environment of Care (EC) Standard EC.02.05.01 (managing utility system risks), Element of Performance (EP) 9: “The [organization] labels utility system controls to facilitate partial or complete emergency shutdowns.”
- Code is currently silent on spare breaker positions with NFPA 70 408.4 (A) Circuit Directory or Circuit Identification. “Spare positions that contain unused overcurrent devices or switches shall be described accordingly. The identification shall be included in a circuit directory that is located on the face or inside of the panel door in the case of a panelboard and at each switch or circuit breaker in a switchboard or switchgear. No circuit shall be described in a manner that depends on transient conditions of occupancy.”

Spare Sprinkler Requirement

- Spare Sprinkler Requirement – The Joint Commission has updated its standards to comply with the Centers for Medicare & Medicaid Services' (CMS) interpretation of spare stock of sprinklers.
- Although the National Fire Protection Association's NFPA 13, Standard for the Installation of Sprinkler Systems and NFPA 25, Standard for Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems require only one of each type and rating for spare stock of sprinklers, CMS requires that six of each type and rating be provided at a minimum. The other provisions of the NFPA standards will apply to ensure that a minimum stock of sprinkler heads, up to 24, be provided for facilities to ensure facilities have an adequate supply of stock sprinklers. According to NFPA 13 committee documents, the intent is still that these spares be provided and available on the campus and not necessarily required for each building.
- <https://www.jointcommission.org/resources/news-and-multimedia/newsletters/newsletters/joint-commission-online/nov-25-2020/>

Performance based Fire Extinguisher inspection

- Performance Based Inspection Language (Note numbered 16.9.1.3 in 2018 Edition)
 - Not Included in First Draft Report for 2022 NFPA 10
 - Will submit for 2025 edition
- Collecting data will help support modifying the NFPA 10 monthly inspection frequency requirements. The following data would be helpful:
 - Number of fire extinguishers in facility
 - Number of fire extinguisher monthly inspection failures annually (could also be monthly)
 - Cost to remediate deficiencies (annually or monthly)
 - Required staff hours to perform monthly inspection (annually or monthly) or cost of annual contract if outsourced
 - Hourly rate per hour for staff performing inspection

Questions or Discussion?





Thank you!

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