NATIONAL FIRE PROTECTION ASSOCIATION



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AGENDA

NFPA Technical Committee on Means of Egress (BLD/SAF-MEA) NFPA 101 & NFPA 5000 First Draft Meeting (A2026)

July 11 – July 12, 2024 8 a.m. (CT)

Embassy Suites by Hilton Kansas City Plaza Kansas City, Missouri

To join the meeting, please contact jyee@nfpa.org

- 1. Call to order. Michael Crowley.
- 2. Introductions. See committee roster attached.
- 3. Chair report. Michael Crowley.
- 4. Staff liaison report. Gregory Harrington.
 - a. First Draft meeting process.
 - b. Reference publication/extract updates.
 - c. Copyright/extracts from external publications.
- **5. Previous meeting minutes.** July 13-14, 2022, NFPA 101/5000 Second Draft remote meeting. See attached.
- 6. Correlating committee direction for 2027 editions BLD-AAC/SAF-AAC Pre-First Draft meeting minutes (attached).
 - a. Minutes items 8.a.i and 8.a.ii re. separation of vertical buildings.
 - b. Minutes items 8.b.i and 8.b.ii re. fire alarm notification signal terminology (visual/visible).

7. Task group reports.

- a. Cable guards. Waymon Jackson.
- b. Area of refuge two-way communication systems. Bill Koffel.
- c. Special purpose horizontally sliding doors. Rita Guest.

8. NFPA 101 First Draft.

- a. Public Inputs. See attached.
- b. Informational Public Input. See attached.
- c. Staff-identified items. See attached.
 - i. Horizontal exit accumulation space.
 - ii. Security turnstiles.

9. NFPA 5000 First Draft.

- a. Public Inputs. See attached.
- 10. Other business.
- 11. Future meetings.
- 12. Adjournment.

Means of Egress

Michael A. Crowley	SE 01/15/2004	Gregory E. Harrington	2/3/2016
Chair Coffman Engineers, Inc. 21 Waterway Suite 300 The Woodlands, TX 77380	SAF-MEA	Secretary (Staff-Nonvoting) National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	SAF-MEA
Alternate: Steven J. Whitman			
Ryan Alles	M 7/26/2007	Fred M. Bales	I 04/17/2024
Principal High Rise Escape Systems, Inc. 801 Edgeforest Terrace Sanford, FL 32771 The Safe Evacuation Coalition Alternate: Jonathan Shimshoni	SAF-MEA	Principal Verisk/Insurance Services Office, Inc. (ISO) 172 Poor Farm Road Greenfield Township, PA 18407 Alternate: Ryan W. Hoffer	SAF-MEA
Charles V. Barlow	M 4/14/2005	Joshua Brackett	U 12/6/2019
Principal EverGlow NA, Inc. 1122 Industrial Drive PO Box 830 Matthews, NC 28106-0830	SAF-MEA	Principal Banner Health 240 W. Osborn Road Unit 5005 Phoenix, AZ 85013 American Society for Healthcare Engineering	SAF-MEA
Kenneth E. Bush	E 1/1/1987	Daniel Buuck	U 03/03/2014
Principal Maryland State Fire Marshals Office 301 Bay Street, Lower Level Easton, MD 21601-2721 International Fire Marshals Association	SAF-MEA n (IFMA)	Principal National Association of Home Builders (NAHB) 1201 15th Street, NW Washington, DC 20005-2800 Alternate: Steven Orlowski	SAF-MEA
Christopher Coombs	SE 04/02/2020	Joshua W. Elvove	SE 1/1/1990
Principal Hoefer Welker 1301 Riverplace Boulevard #1900 Jacksonville, FL 32207	SAF-MEA	Principal Self 3478 South Cimarron Way Aurora, CO 80014-3912 Alternate: David A. de Vries	SAF-MEA
Ronald R. Farr	E 08/17/2018	Teresa "Tracey" A. Fillmore	U 12/6/2019
Principal Plainwell Fire Department 1226 107th Avenue Otsego, MI 49078 Michigan Fire Inspectors Society Alternate: Paul L. Dove	SAF-MEA	Principal Lee Health 4211 Metro Parkway Fort Myers, FL 33916 American Society of Interior Designers Alternate: Rita C. Guest	SAF-MEA

Means of Egress

David W. Frable	U 1/1/1990	Laura Frye	SE 11/30/2016
Principal	SAF-MEA	Principal	SAF-MEA
US General Services Administration		Door Safety LLC	
Public Buildings Service		706 Owl Creek Court	
665 Green Meadow Lane		Charlottesville, VA 22903	
Geneva, IL 60134			
US General Services Administration			
Michelle Renee Gebhart	SE 04/14/2021	Bryan Lawrence Hoskins	SE 10/23/2013
Principal	SAF-MEA	Principal	SAF-MEA
Jensen Hughes		Oklahoma State University	
2310 West Plano Parkway		522 Engineering North	
Suite 210		Stillwater, OK 74078	
Plano, TX 75075		Alternate: Virginia R. Charter	
Alternate: Joseph Bell		-	
Waymon Jackson	U 7/23/2008	William E. Koffel	SE 1/1/1992
Principal	SAF-MEA	Principal	SAF-MEA
University of Texas at Austin		Koffel Associates, Inc.	
1 University Station		8815 Centre Park Drive	
Stop C2600		Suite 200	
PO Box 7729		Columbia, MD 21045-2107	
Austin, TX 78713		Alternate: Joshua Talley	
Alternate: Josh Lambert			
Mark Larson	U 08/17/2018	Brian A. Marcyjanik	U 04/05/2016
Principal	SAF-MEA	Principal	SAF-MEA
Mark Larson and Associates LLC		US Department of Veterans Affairs	
1574 N. Ellington Way		811 Vermont Avenue NW	
Eagle, ID 83616		Washington, DC 20571	
National Disability Rights Network		Alternate: John Lechman	
Joe McElvaney	M 12/07/2021	Denise L. Pappas	M 08/10/2022
Principal	SAF-MEA	Principal	SAF-MEA
The Hiller Companies		Keltron Corporation	
1818 W. Olney Avenue		1110 Beaumont Road	
Phoenix, AZ 85041		Roanoke, VA 24019	
Automatic Fire Alarm Association, Inc.		National Electrical Manufacturers Association	n
Alternate: Maria B. Marks		Alternate: Andrew G. Berezowski	
Jake Pauls	C 1/1/1977	Vincent Quinterno	SE 10/18/2011
Principal	SAF-MEA	Principal	SAF-MEA
Jake Pauls Consulting Services		VGQ Enterprises	
255 Glenlake Avenue		1 Hamilton Road	
Suite 2207		Somerset, MA 02725	
Toronto, ON M6P 1G2 Canada			
American Public Health Association			
Alternate: Stanley C. Harbuck			

Means of Egress

Mitchell Ramseur	SE 08/24/2021	Kenneth Saks	U	10/23/2013
Principal	SAF-MEA	Principal		SAF-MEA
M. Ramseur & Associates, PLLC.		US National Institutes of Health		
925B Peachtree Street NE		502 Hillsboro Drive		
Suite 2041		Silver Spring, MD 20902-3131		
Atlanta, GA 30309		Alternate: Paul J. Richards		
Michael S. Shulman	RT 1/15/1999	J. Francois Simard	IM	08/11/2014
Principal	SAF-MEA	Principal		SAF-MEA
UL LLC		Cirque Du Soleil		
47173 Benecia Street		8400 2E Avenue		
Fremont, CA 94538		Montreal, QC H1Z 4M6 Canada		
Alternate: Jon G. Roberts		Alternate: Eduardo Martin		
Michael David Six	E 08/23/2023	Kelly R. Tilton	U	01/10/2008
Principal	SAF-MEA	Principal		SAF-MEA
US Air Force		US Central Intelligence Agency		
139 Barnes Drive, Suite 1		15160 Winesap Drive		
Tyndall Air Force Base, FL 32403		North Potomac, MD 20878		
Joseph H. Versteeg	SE 1/1/1990	Kevin L. Brinkman	M	08/17/2015
Principal	SAF-MEA	Voting Alternate		SAF-MEA
Versteeg Associates		National Elevator Industry, Inc.		
86 University Drive		925 West Center Street		
Torrington, CT 06790		Eureka, IL 61530-9505		
John Woestman	M 8/5/2009	Joseph Bell	SE	11/29/2023
Voting Alternate	SAF-MEA	Alternate		SAF-MEA
Kellen Company		Jensen Hughes		
808 North York Street		3500 Piedmont Road NE		
Monroe, IA 50170-7791		Suite 750		
Builders Hardware Manufacturers Ass	ociation	Atlanta, GA 30305		
		Principal: Michelle Renee Gebhart		
Andrew G. Berezowski	M 04/08/2015	Virginia R. Charter	SE	12/08/2015
Alternate	SAF-MEA	Alternate		SAF-MEA
Honeywell Inc.		Oklahoma State University		
12 Clintonville Road		523 Engineering North		
Northford, CT 06472-1610		Stillwater, OK 74078-8016		
National Electrical Manufacturers Asso	ociation	Principal: Bryan Lawrence Hoskins		
Principal: Denise L. Pappas				
David A. de Vries	SE 7/1/1993	Paul L. Dove	E	08/17/2018
Alternate	SAF-MEA	Alternate		SAF-MEA
Firetech Engineering Inc.		205 Fairfield Drive		
8052 Monticello Avenue		Coldwater, MI 49036		
Suite 202		Michigan Fire Inspectors Society		
Skokie, IL 60076-3438		Principal: Ronald R. Farr		
Principal: Joshua W. Elvove				

Means of Egress

Rita C. Guest	U 7/20/2000	Stanley C. Harbuck	С	08/17/2015
Alternate	SAF-MEA	Alternate		SAF-MEA
Carson Guest, Inc.		School of Building Inspection		
1776 Peachtree Street NW		46 Varnum Street		
Suite 280S		Arlington, MA 02474		
Atlanta, GA 30309-2306		American Public Health Association		
American Society of Interior Designers		Principal: Jake Pauls		
Principal: Teresa "Tracey" A. Fillmore				
Ryan W. Hoffer	I 04/12/2022	Josh Lambert	U	07/29/2013
Alternate	SAF-MEA	Alternate		SAF-MEA
Verisk ISO		University of Texas at Austin		
941 Calle Mejia		304 East 24th Street		
Apartment 331		Suite 202AD		
Santa Fe, NM 87501		Mail Code C2600		
Principal: Fred M. Bales		Austin, TX 78712		
-		Principal: Waymon Jackson		
John Lechman	U 08/24/2021	Maria B. Marks	М	04/12/2022
Alternate	SAF-MEA	Alternate		SAF-MEA
Department of Veteran Affairs, Veterans H	ealth Administration	Siemens Industry, Inc.		
Central Office		4001 Spruell Drive		
Office of Occupational Safety and Health		Kensington, MD 20895-1346		
811 Vermont Avenue, NW		Automatic Fire Alarm Association, Inc.		
Washington, DC 20571		Principal: Joe McElvaney		
Principal: Brian A. Marcyjanik				
Eduardo Martin	IM 12/07/2018	Steven Orlowski	U	12/07/2022
Alternate	SAF-MEA	Alternate		SAF-MEA
Devecem Iberica		Sundowne Building Code Consultants, LLC.		
30-32 Blvd De Sebastopol		8401 Pete Wiles Road		
75004		Middletown, MD 21769		
France, PARIS 75004 France		National Association of Home Builders (NAH	B)	
Principal: J. Francois Simard		Principal: Daniel Buuck		
Paul J. Richards	U 08/11/2020	Jon G. Roberts	RT	08/17/2015
Alternate	SAF-MEA	Alternate		SAF-MEA
National Institute of Health (NIH)- Divisio	n of the Fire	UL LLC		
Marshal		6608 North Western Avenue		
5202 West Cedar Lane		#280		
Building 15G2		Oklahoma City, OK 73116-7326		
Bethesda, MD 20892		Principal: Michael S. Shulman		
Principal: Kenneth Saks				

Means of Egress

Safety to Life

Jonathan Shimshoni	M 3/1/2011	Joshua Talley	SE 11/29/2023
Alternate	SAF-MEA	Alternate	SAF-MEA
Escape Rescue Systems Ltd.		Koffel Associates, Inc.	
David Hamelek 7		8815 Centre Park Drive	
Tel-Aviv, 64953 Israel		Suite 200	
The Safe Evacuation Coalition		Columbia, MD 21045-2107	
Principal: Ryan Alles		Principal: William E. Koffel	
Steven J. Whitman	SE 04/03/2019	Pichaya Chantranuwat	SE 1/18/2001
Alternate	SAF-MEA	Nonvoting Member	SAF-MEA
Coffman Engineers		Fusion Consultants Co. Ltd/Thailand	
8171 Maple Lawn Boulevard		81/55 Soi Phumijit	
Suite 320		Rama 4 Road	
Fulton, MD 20759		Prakanong, Klontoey	
Principal: Michael A. Crowley		Bangkok, 10110 Thailand	
William R. Hamilton	E 3/4/2009	Reginald D. Jackson	E 08/17/2017
Nonvoting Member	SAF-MEA	Nonvoting Member	SAF-MEA
US Department of Labor		US Department of Labor	
Occupational Safety & Health Administration		Occupational Safety and Health Administration	
200 Constitution Avenue		200 Constitution Avenue	
NW, Room N3609		NW, Room 3107	
Washington, DC 20210		Washtington, DC 20210-0001	
		Occupational Safety & Health Administration	1
Gregory E. Harrington	2/3/2016		
Staff Liaison	SAF-MEA		
National Fire Protection Association			
1 Batterymarch Park			

1 Batterymarch Park Quincy, MA 02169-7471 NATIONAL FIRE PROTECTION ASSOCIATION



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MINUTES

NFPA Building Code/Safety to Life Technical Committee on Means of Egress (BLD/SAF-MEA) NFPA 101/5000 Second Draft Meeting (A2023)

> July 13-14, 2022 Microsoft Teams Meeting

- **1.** Call to order. The meeting was called to order by Chair David Collins at 11:00 a.m. (EDT) on July 13, 2022.
- **2. Introductions.** Staff Liaison Gregory Harrington called the roll of committee members. See attached for attendance.
- **3.** Chair report. The chair welcomed and thanked the committee for attending and indicated the primary purpose of the meeting was to prepare the second drafts of the 2024 editions of NFPA 101 and NFPA 5000. He also indicated that this is his last meeting as chair due to the NFPA tenure policy. Anyone interested in assuming the chair position should contact him and staff.
- **4. Staff liaison report.** Staff added his welcome and thanks and delivered a presentation on the NFPA second draft meeting process.
- 5. Previous meeting minutes. The July 8-9, 2021, first draft meeting minutes were approved as submitted.
- 6. Special purpose horizontally sliding doors task group report. No report. The task group was retained on the agenda. The chair requested that the task group keep him and staff apprised of its progress in accordance with the Regulations Governing the Development of NFPA Standards. Task group roster: R. Guest (TG chair), W. Koffel, V. Quinterno.
- 7. Review Correlating Committee on Building Code previous meeting minutes. The committee reviewed the BLD-AAC minutes, including the items directed to BLD-MEA and all technical committees.
 - a. NFPA 13, 13D, 13R references in NFPA 5000: The committee reviewed the correlating committee direction and developed second revisions as requested. See the NFPA 5000 Second Draft Report.
 - b. Damper terminology task group recommendations: No action required on NFPA 5000.
 - c. Use of "draftstop" versus "draft stop": No action required.
 - d. Modular rooms/sleep pods: No action required.
- 8. Review Correlating Committee on Safety to Life previous meeting minutes. The committee reviewed the SAF-AAC minutes, including the items directed to SAF-MEA and all technical committees.

- a. NFPA 13, 13D, 13R references in NFPA 101: The committee reviewed the correlating committee direction and developed second revisions as requested. See the NFPA 101 Second Draft Report.
- b. Damper terminology task group recommendations: The committee reviewed and acted on the task group public comment. See the NFPA 101 Second Draft Report.
- c. Use of "draftstop" versus "draft stop": No action required.
- d. Modular rooms/sleep pods: No action required.

9. NFPA 101 Second Draft.

- a. **Referenced publications.** The committee reviewed the recommended reference publication updates. No action.
- b. Extracts. No action required.
- c. **Public Comments.** The committee reviewed and acted on the NFPA 101 public comments. See the NFPA 101 Second Draft Report.
- d. **Committee Inputs.** The committee reviewed the NFPA 101 committee inputs and developed second revisions as applicable. See the NFPA 101 Second Draft Report.

10. NFPA 5000 Second Draft.

- a. **Referenced publications.** The committee reviewed the recommended reference publication updates. No action.
- b. Extracts. No action required.
- c. **Public Comments.** The committee reviewed and acted on the NFPA 5000 public comments. See the NFPA 5000 Second Draft Report.
- d. **Committee Inputs.** The committee reviewed the NFPA 5000 committee inputs and developed second revisions as applicable. See the NFPA 5000 Second Draft Report.

11. Other business.

a. **Cable guard question.** The committee reviewed and discussed the question on cable guards received by staff. Following discussion, a task group was appointed to further investigate the issue and develop any needed recommendations for the next revision cycle and report at the next meeting. Task group members: W. Jackson (TG chair), Ray Battalora (University of Texas at Austin), D. Collins, S. Orlowski, J. Pauls, V. Quinterno, J. Woestman.

b. Other business.

- i. J. Pauls announced this marks his 45th year on the committee and that he intends to serve for another two revision cycles. He was congratulated by the committee for his longevity.
- ii. W. Koffel suggested that actions taken on two-way communication systems for areas of refuge might create confusion as they relate to elevator lobbies and occupant evacuation elevators. A task group was appointed to further review the issue and develop any needed recommendations for the next revision cycle. Task group members:

W. Koffel (TG chair), A. Berezowski, M. Crowley, D. Frable, W. Jackson, M. Larson, M. Marks, J. McElvaney, M. Mueller.

- iii. A motion passed directing staff to develop any needed second revisions to coordinate actions between NFPA 101 and NFPA 5000 for consistency where applicable.
- iv. Staff invited the committee to recognize Chair Collins for his years of service to and leadership of the committee and reported that working with him over his tenure was a great pleasure. The committee joined staff in so recognizing the chair. He will be missed as he enjoys a well-deserved retirement.
- **12. Future meetings.** Staff reported the committee will next meet to prepare the first drafts of the 2027 editions of NFPA 101 and NFPA 5000 about two years from now (2024).
- 13. Adjournment. The meeting adjourned at 12:12 p.m. (EDT) on July 14, 2022.

<u>Attendees</u> Committee Members:

X	Collins, David	Chair	American Institute of Architects
х	Harrington, Gregory	Secretary (Staff-	National Fire Protection Association
х	Alles, Ryan	Principal	The Safe Evacuation Coalition
х	Barlow, Charles	Principal	EverGlow NA, Inc.
х	Brackett, Joshua	Principal	American Society for Healthcare
х	Bush, Kenneth	Principal	International Fire Marshals Association
х	Clayton, Jason	Principal	Verisk Analytics/Insurance Services Office,
x	Coombs, Christopher	Principal	HDR
х	Crowley, Michael	Principal	Coffman Engineers, Inc.
	Day, Richard	Principal	Michigan State Fire Marshal's Office
х	Elvove, Joshua	Principal	Self
	Farr, Ronald	Principal	Michigan Fire Inspectors Society
х	Frable, David	Principal	US General Services Administration
х	Gebhart, Michelle	Principal	Jensen Hughes
	Guest, Rita	Principal	American Society of Interior Designers
	Hoskins, Bryan	Principal	Oklahoma State University
х	Jackson, Waymon	Principal	University of Texas at Austin
х	Larson, Mark	Principal	National Disability Rights Network
	Lathrop, James	Principal	Koffel Associates, Inc.
	Leffler, John	Principal	Forcon International, Ltd.
х	Marcyjanik, Brian	Principal	US Department of Veterans Affairs
х	McElvaney, Joe	Principal	Automatic Fire Alarm Association, Inc.
х	Mueller, Marc	Principal	National Elevator Industry Inc.
х	Pauls, Jake	Principal	American Public Health Association
х	Quinterno, Vincent	Principal	Rhode Island State Fire Marshal's Office
х	Ramseur, Mitchell	Principal	M. Ramseur & Associates, PLLC.
X	Saks, Kenneth	Principal	US National Institutes of Health
х	Schwarzenberg, Roy	Principal	US Central Intelligence Agency
Х	Shulman, Michael	Principal	UL LLC

x	Simard, J. Francois	Principal	Cirque Du Soleil
	Tierney, Michael	Principal	Builders Hardware Manufacturers
	Versteeg, Joseph	Principal	Versteeg Associates
х	Berezowski, Andrew	Voting Alternate	National Electrical Manufacturers
	Buuck, Daniel	Voting Alternate	National Association of Home Builders
х	Brinkman, Kevin	Alternate	National Elevator Industry Inc.
х	Charter, Virginia	Alternate	Oklahoma State University
	de Vries, David	Alternate	Firetech Engineering Inc.
	Dove, Paul	Alternate	Michigan Fire Inspectors Society
	Harbuck, Stanley	Alternate	American Public Health Association
	Hoffer, Ryan	Alternate	Verisk ISO
х	Koffel, William	Alternate	Koffel Associates, Inc.
	Lambert, Josh	Alternate	University of Texas at Austin
х	Lechman, John	Alternate	US Department of Veterans Affairs
х	Marks, Maria	Alternate	Automatic Fire Alarm Association, Inc.
	Martin, Eduardo	Alternate	Devecem Iberica
х	Richards, Paul	Alternate	National Institute of Health (NIH)- Division
х	Roberts, Jon	Alternate	UL LLC
	Shimshoni, Jonathan	Alternate	The Safe Evacuation Coalition
х	Tilton, Kelly	Alternate	US Central Intelligence Agency
х	Whitman, Steven	Alternate	Coffman Engineers
х	Woestman, John	Alternate	Builders Hardware Manufacturers
	Chantranuwat, Pichaya	Nonvoting Member	Fusion Consultants Co. Ltd/Thailand
	Hamilton, William	Nonvoting Member	Occupational Safety & Health
X	Jackson, Reginald	Nonvoting Member	Occupational Safety & Health
х	Harrington, Gregory	Staff Liaison	National Fire Protection Association

Guests:

Steven Orlowski, Sundowne Building Code Consultants

Total in attendance: 37

NATIONAL FIRE PROTECTION ASSOCIATION



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MINUTES

NFPA Correlating Committee on Building Code (BLD-AAC) NFPA Correlating Committee on Safety to Life (SAF-AAC)

NFPA 101 and NFPA 5000 Pre-First Draft Meeting (A2026)

February 13, 2024 1:00 p.m. (ET)

Microsoft Teams Remote Meeting

- 1. Call to order. P. Willse, BLD-AAC chair, on behalf of J. Tubbs, SAF-AAC chair, and himself, called the meeting to order at 1:00 p.m. on February 13, 2024.
- 2. Introductions. NFPA staff took attendance.
- Chair reports. J. Tubbs introduced himself as the recently appointed chair of the Correlating Committee on Safety to Life, welcomed attendees, and provided an overview of the meeting.
 P. Willse added his welcome to the 2026 edition revision cycles of NFPA 101 and NFPA 5000.

4. Staff liaison reports.

- a. G. Harrington and K. Carr introduced the technical committee chairs who were appointed since the previous revision cycle:
 - i. B. Cronin, chair of the Technical Committee on Residential Occupancies, replacing James Lathrop
 - ii. M. Crowley, chair of the Technical Committee on Means of Egress, replacing David Collins
 - iii. N. Dawe, chair of the Technical Committee on Mercantile and Business Occupancies, replacing Amy Murdock
 - iv. J. Rickard, chair of the Technical Committee on Building Systems, replacing Joshua Greene
 - v. M. Savage, chair of the Technical Committee on Structures, Construction, and Materials, replacing Moriel Kaplan
- b. K. Carr provided an overview of copyright and the use of extracts from non-NFPA documents in NFPA standards. NFPA is asking all committees to review such extracts and determine whether non-NFPA extracts can be revised so that they no longer extract from non-NFPA documents to reduce the needed permissions from external organizations. Motions by BLD-AAC and SAF-AAC directing all technical committees to review non-

These minutes are considered preliminary until approved at the next committee meeting.

NFPA extracts in NFPA 101 and NFPA 5000 and revise where appropriate passed. Such direction will be provided to the technical committees via First Draft meeting agenda items.

c. K. Carr reported that NFPA is asking all correlating and technical committee members to be mindful that, in accordance with the *Guide for the Conduct of Participants in the NFPA Standards Development Process*, a TC/CC member in any interest category who has been retained to represent the interests of another interest category with respect to a specific issue or issues that are to be addressed by a TC/CC shall declare those interests to the committee and refrain from voting on any Public Input, Public Comment, or other matter relating to those issues. Members are encouraged to periodically review the *Conduct Guide* for details.

5. Previous meeting minutes.

- a. The minutes of the December 13, 2022, SAF-AAC NFPA 101 Second Draft meeting were approved with the following correction: In item 6.b, change "DAX" to "DACT."
- b. The minutes of the December 14, 2022, BLD-AAC NFPA 5000 Second Draft meeting were approved with the following corrections: Under "Attendees" and "Guests," the following corrections to names and organizations were made: Mark Smith, Summit Fire & Security/Fire Life Safety; Peter Larrimer*, US Department of Veterans Affairs; Rodger Reiswig, Johnson Controls; Shamim Rashid-Sumar, National Ready Mix Concrete Association; Chip Carson, Carson Associates, Inc.

6. Liaison reports.

- a. Sprinkler project. W. Koffel reported that the NFPA 13/13R/13D second drafts are now posted and open for NITMAMs (closing date March 27, 2024). No apparent conflicts or concerns exist between the revised sprinkler standards and NFPA 101/5000.
- b. Fire alarm project. S. Clary reported that NFPA 72 is in the same position as the sprinkler standards with the same NITMAM closing date. No apparent conflicts or concerns exist between the revised NFPA 72 and NFPA 101/5000.

7. Correlating Committee task group reports.

- a. Sprinkler system supervision: J. Hugo. No report; the task group will convene prior to the First Draft meetings.
- b. Occupant load terminology: J. Tubbs. The task group chair asked to be replaced as he is now chairing SAF-AAC. M. Crowley will take over as task group chair and it will convene prior to the first draft meetings.
- c. TC scopes: E. Rosenbaum. The draft scopes were circulated for comments following the previous correlating committee second draft meetings. No comments were received.
 - i. A motion by SAF-AAC was passed to forward the proposed SAF-XXX scopes to the Standards Council as modified by deleting any references to "property protection." See attached.

- ii. A motion by BLD-AAC was passed to forward the proposed BLD-XXX scopes to the Standards Council as modified by deleting any references to "movement of people." A subsequent motion to reconsider the action and reinsert "movement of people" into the BLD-FIR scope passed. See attached.
- d. Modular rooms/sleep pods: H. Hopper. Staff will coordinate with the task group and correlating chairs to expand its roster. The intent is for the group to convene prior to the NFPA 101/5000 First Draft meetings.
- e. Short-term housing rentals: Staff will coordinate with the correlating committee chairs and the chairs of the relevant technical committees (BLD/SAF-FUN and BLD/SAF-RES) to develop a task group scope, recruit members, and appoint a task group chair.
- f. Exterior walls (NFPA 5000): Staff will coordinate with the BLD-BLC and BLD-SCM joint task group, as needed, who are planning to convene prior to NFPA 101/5000 Public Input Closing Dates.

8. Correlating Committee direction to all technical committees.

- a. Separation of vertical buildings.
 - i. A motion by SAF-AAC was passed: Direct the applicable SAF-XXX technical committees to review the sections of NFPA 101 noted in item 8.a.i of the BLD/SAF-AAC Pre-First Draft Meeting Agenda for any inconsistencies as they relate to podium or pedestal construction and make any needed revisions via the creation of First Revisions or Committee Input at the First Draft meetings. Indicate whether revisions were needed in the technical committee First Draft meeting minutes. *Note: Affected committees include SAF-FIR (8.2.1.3(4)), SAF-FUN (4.6.3(5)), and the occupancy committees with construction limits in the X.1.6 subsection (SAF-AXM, SAF-END, SAF-HEA, SAF-DET, and SAF-BCF).*
 - A motion by BLD-AAC was passed: Direct the applicable BLD-XXX technical committees to review the sections of NFPA 5000 noted in item 8.a.ii of the BLD/SAF-AAC Pre-First Draft Meeting Agenda for any inconsistencies as they relate to podium or pedestal construction and make any needed revisions via the creation of First Revisions or Committee Input at the First Draft meetings. Indicate whether revisions were needed in the technical committee First Draft meeting minutes. *Note: This impacts all BLD technical committees, with the exception of BLD-BLC, who has jurisdiction over all requirements (7.4.3.6.5, 7.4.3.6.7, 8.3.3.7.1, D.6.6, D.6.8)*.
- b. Fire alarm notification signal terminology (*visual* vs. *visible*) for consistency with NFPA 72.
 - i. A motion by SAF-AAC was passed: Direct the SAF-XXX technical committees to review their use of the terms *visual* and *visible* as they relate to fire alarm signals and revise, as needed, to align with NFPA 72, *National Fire Alarm and Signaling Code*.
 - ii. A motion by BLD-AAC was passed: Direct the BLD-XXX technical committees to review their use of the terms *visual* and *visible* as they relate to fire alarm signals and revise, as needed, to align with NFPA 72, *National Fire Alarm and Signaling Code*.

9. TC updates/subject areas of interest for TC focus during 2027 edition revision cycle.

- a. TC on Assembly Occupancies (BLD/SAF-AXM). Chair J. Lambert reported there are several task groups held over from the previous cycle addressing nightclub-type special assembly occupancies, crowd manager requirements, festival seating terminology and requirements, and carbon monoxide detection requirements.
- b. TC on Board and Care Facilities (BLD/SAF-BCF). Chair John Rickard reported a task group on carbon monoxide detection for existing occupancies was held over from the previous cycle. There is also interest in putting together a task group with other affected committees on the subject of LPG and natural gas detection in buildings.
- c. TC on Building Construction: (BLD-BLC): Chair M. Chrisman reported a joint task group between BLD-BLC and BLD-SCM will begin work on requirements pertaining to exterior walls shortly. BLC will also discuss any further revisions to sections noted in 8.a.ii above, pertaining to podium or pedestal construction.
- d. TC on Building Service and Fire Protection Equipment (BLD/SAF-BSF): No report.
- e. TC on Building Systems (BLD-BSY): Chair James Rickard reported that the committee will conduct a review of accessibility requirements within Chapter 12, and cybersecurity considerations within Chapter 56.
- f. TC on Detention and Correctional Occupancies: Chair J. Serafim reported there are no specific issues under consideration for the upcoming cycle.
- g. TC on Educational and Day Care Occupancies (BLD/SAF-END): Chair M. Mertens reported that the security task group remains active and will continue to work through the upcoming revision cycle. Other items that will continue to be vetted will include ABHR requirements, carbon monoxide detection, fire alarm system upgrades in existing occupancies, and classroom safety/door locking. There are questions on the paths forward with respect to the committee scope and the scopes of NFPA 101 and NFPA 5000. Staff will coordinate with the TC chair to provide guidance moving forward.
- h. TC on Fire Protection Features (BLD/SAF-FIR): Chair N. Wittasek reported there are no specific issues under consideration for the upcoming cycle.
- i. TC on Fundamentals (BLD/SAF-FUN): Chair C. Jelenewicz reported there are no specific issues under consideration for the upcoming cycle.
- j. TC on Health Care Occupancies (BLD/SAF-HEA): Chair W. Koffel reported there are several task groups held over from the previous cycle addressing patient privacy curtains as they relate to sprinkler obstructions, carbon monoxide detection, and occupancy classification of dental clinics.
- k. TC on Industrial, Storage, and Miscellaneous Occupancies (BLD/SAF-IND): Chair S. Sheldon reported there are no specific issues under consideration for the upcoming cycle.
- 1. TC on Interior Finish and Contents (BLD/SAF-INT): Chair N. Dawe reported there are no specific issues under consideration for the upcoming cycle. He also indicated that a new chair should be appointed at the April Standards Council meeting as he was recently appointed chair of BLD/SAF-MER.

- m. TC on Means of Egress (BLD/SAF-MEA): Chair M. Crowley reported there are several task groups held over from the previous cycle addressing special purpose horizontally sliding doors, cable guards, and area of refuge communication systems.
- n. TC on Mercantile and Business Occupancies (BLD/SAF-MER): Chair N. Dawe reported there are no specific issues under consideration for the upcoming cycle.
- o. TC on Residential Occupancies (BLD/SAF-RES): Chair B. Cronin reported there are no specific issues under consideration for the upcoming cycle.
- p. TC on Structures, Construction, and Materials (BLD-SCM): Chair M. Savage reported a joint task group between BLD-BLC and BLD-SCM will begin work on requirements pertaining to exterior walls.
- **10. NFPA 101A update to SAF-AAC.** G. Harrington reported that the NFPA 101A second draft is currently posted and open for NITMAMs with a closing date of March 27, 2024.
- 11. Other business. There was no other business.
- **12. Future meetings.** The next correlating committee meetings will be held in January 2025. Meeting notices will be posted at <u>www.nfpa.org/101next</u> and <u>www.nfpa.org/5000next</u> when the meetings are scheduled.
- 13. Adjournment. The meeting was adjourned at 3:20 p.m. (ET) on February 13, 2024.

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BLD-AAC	Committee	Members:
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	Name:	Office:	Organization:
1	Willse, Peter	Chair	Portland Fire Marshal's Office
✓	Bellamy, Tracey	Principal	American Fire Sprinkler Association
✓	Frable, David	Principal	US General Services Administration
✓	Hansen, Raymond	Principal	US Department of the Air Force
✓	Hopper, Howard	Principal	UL Solutions
✓	Hugo, Jeffrey	Principal	National Fire Sprinkler Association
	O'Connor, Daniel	Principal	American Hotel & Lodging Association
	Quiter, James	Principal	Retired-Arup
✓	Roberts, Richard	Principal	National Electrical Manufacturers
✓	Savage, Michael	Principal	Marion County Building Safety
✓	Shah, Faimeen	Principal	Vortex Fire Engineering Consultancy
✓	Tyree, David	Principal	American Wood Council
✓	Vinci, Leon	Principal	American Public Health Association
1	Asp, Roland	Alternate	National Fire Sprinkler Association

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	Denhardt, John	Alternate	American Fire Sprinkler Association
	Keays, Jack	Alternate	Vortex Fire Consulting Inc.
	Laramee, Scott	Alternate	American Hotel & Lodging Association
✓	Marks, Maria	Alternate	National Electrical Manufacturers
	O'Brocki, Raymond	Alternate	American Wood Council
	Pauls, Jake	Alternate	American Public Health Association
	Simone, Joseph	Alternate	US Department of the Navy
✓	Tubbs, Jeffrey	Alternate	Arup
1	Chrisman, Mark	Nonvoting Member	TC on Building Construction
~	Cronin, Bradford	Nonvoting Member	TC on Residential Occupancies
✓	Crowley, Michael	Nonvoting Member	TC on Means of Egress
✓	Dawe, Nicholas	Nonvoting Member	TC on Mercantile and Business
	Grill, Raymond	Nonvoting Member	TC on Building Service and Fire Protection
✓	Jelenewicz, Chris	Nonvoting Member	TC on Fundamentals
✓	Koffel, William	Nonvoting Member	TC on Health Care Occupancies
✓	Lambert, Josh	Nonvoting Member	TC on Assembly Occupancies
✓	Mertens, Matthew	Nonvoting Member	TC on Educational and Day-Care
✓	Rickard, James	Nonvoting Member	TC on Building Systems
✓	Rickard, John	Nonvoting Member	TC on Board & Care Facilities
1	Serafim, Janna	Nonvoting Member	TC on Detention & Correctional
✓	Sheldon, Steven	Nonvoting Member	TC on Industrial, Storage, and
✓	Wittasek, Nathan	Nonvoting Member	TC on Fire Protection Features
1	Carr, Kevin	Staff Liaison	National Fire Protection Association

SAF-AAC Committee Members:

✓	Tubbs, Jeffrey	Chair	Arup
✓	Harrington, Gregory	Secretary (Staff-	National Fire Protection Association
✓	Bush, Kenneth	Principal	Maryland State Fire Marshals Office
~	Carson, Wayne	Principal	Carson Associates, Inc.
✓	Harbuck, Stanley	Principal	American Public Health Association
✓	Hopper, Howard	Principal	UL Solutions
✓	Hugo, Jeffrey	Principal	National Fire Sprinkler Association

✓	Lucas, Jeffrey	Principal	International Fire Marshals Association
	Reiswig, Rodger	Principal	National Electrical Manufacturers
✓	Rosenbaum, Eric	Principal	American Health Care Association
✓	Savage, Michael	Principal	Marion County Building Safety
✓	Asp, Roland	Alternate	National Fire Sprinkler Association
✓	Marks, Maria	Alternate	National Electrical Manufacturers
	Pauls, Jake	Alternate	American Public Health Association
	Quiter, James	Alternate	Retired-Arup
✓	Cronin, Bradford	Nonvoting Member	TC on Residential Occupancies
✓	Crowley, Michael	Nonvoting Member	TC on Means of Egress
✓	Dawe, Nicholas	Nonvoting Member	TC on Mercantile & Business Occupancies
	Grill, Raymond	Nonvoting Member	TC on Building Service & Fire Protection
✓	Jelenewicz, Chris	Nonvoting Member	TC on Fundamentals
✓	Koffel, William	Nonvoting Member	TC on Health Care Occupancies
✓	Lambert, Josh	Nonvoting Member	TC on Assembly Occupancies
	Larrimer, Peter	Nonvoting Member	TC on Alternative Approaches to Life
✓	Mertens, Matthew	Nonvoting Member	TC on Educational & Day-Care
✓	Rickard, John	Nonvoting Member	TC on Board & Care Facilities
✓	Serafim, Janna	Nonvoting Member	TC on Detention & Correctional
✓	Sheldon, Steven	Nonvoting Member	TC on Industrial, Storage, & Miscellaneous
~	Wittasek, Nathan	Nonvoting Member	TC on Fire Protection Features
1	Clary, Shane	Alt. to Nonvoting	Signaling Systems Correlating Committee

Guests:

Kevin Brinkman	National Elevator Industry Inc.	
Jonathan Humble	National Multifamily Housing Council	
Steven Orlowski	Sundowne Building Code Consultants LLC	
Milosh Puchovsky	Worcester Polytechnic Institute	
Larry Rietz	Jensen Hughes	
William Skene	FM Global	
John Woestman	Builders Hardware Manufacturers Association	
Stephen Ganoe	NFPA	
Camille Levy	NFPA	

Jennifer Sisco	NFPA
Tracy Vecchiarelli	NFPA

Total number in attendance: 46

Committee Scope & Responsibility

Safety to Life (SAF-AAC)

Scope

This Committee shall have primary responsibility for documents on the protection of human life from fire and other circumstances capable of producing similar consequences and for the nonemergency and emergency movement of people.

Responsibility

Life Safety Code® (NFPA 101)

Alternative Approaches to Life Safety (SAF-ALS)

Scope

This Committee shall have primary responsibility for documents on alternative methods of protection of human life from fire and other circumstances capable of producing similar consequences and on the nonemergency and emergency movement ofpeople.

Responsibility

Guide on Alternative Approaches to Life Safety (NFPA 101A)

Assembly Occupancies (SAF-AXM)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people in assembly occupancies, tents, and membrane structures.

Responsibility

Life Safety Code® (NFPA 101) Chapter 12 Life Safety Code® (NFPA 101) Chapter 13 Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures (NFPA 102)

Board and Care Facilities (SAF-BCF)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in residential board and care facilities.

Responsibility

Life Safety Code® (NFPA 101) Chapter 32 Life Safety Code® (NFPA 101) Chapter 33

Building Service and Fire Protection Equipment (SAF-BSF)

Scope

This Committee shall have primary responsibility for documents on <u>building service</u>, fire protection, and <u>life safety equipment and systems</u>, the application of fire protection systems including detection, alarm, and suppression, and the life safety impact of various building systems. as they relate to protection of human life from fire and other circumstances capable of producing similar consequences, and to the nonemergency and emergency movement of people.

Comment: Building service, fire protection, and life safety equipment and systems are covered by this committee. The last phrase includes wording used on other committee scopes.

Responsibility

Life Safety Code® (NFPA 101) Chapter 9

Detention and Correctional Occupancies (SAF-DET)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in detention and correctional occupancies.

Responsibility

Life Safety Code® (NFPA 101) Chapter 22 Life Safety Code® (NFPA 101) Chapter 23

Educational and Day-Care Occupancies (SAF-END)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people in educational occupancies and day-care occupancies.

Responsibility

Life Safety Code® (NFPA 101) Chapter 14 Life Safety Code® (NFPA 101) Chapter 15 Life Safety Code® (NFPA 101) Chapter 16 Life Safety Code® (NFPA 101) Chapter 17

Fire Protection Features (SAF-FIR)

Scope

This Committee shall have primary responsibility for documents on construction,_-compartmentation, and special hazards including the performance of assemblies, openings, and penetrations, as related to the protection of life and property from fire and other circumstances capable of producing similar consequences, and to the nonemergency and emergency movement of people.

Comment – Special hazards are included in Section 8.7. The wording about "performance of assemblies, openings and penetrations" is not needed or grammatically correct. The addition of the last phrase is consistent with other committee scopes.

Responsibility

Life Safety Code® (NFPA 101) Chapter 8

Fundamentals of Safety to Life (SAF-FUN)

Scope

This Committee shall have primary responsibility for documents on the basic goals, objectives, performance requirements, and definitions for protection of human life and property from fire, earthquake, flood, wind, and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people, and on high-rise buildings.

Responsibility

Life Safety Code® (NFPA 101) Chapter 1 Life Safety Code® (NFPA 101) Chapter 11.8 Life Safety Code® (NFPA 101) Chapter 2 Life Safety Code® (NFPA 101) Chapter 4 Life Safety Code® (NFPA 101) Chapter 43 Life Safety Code® (NFPA 101) Chapter 5 Life Safety Code® (NFPA 101) Chapter 6 Life Safety Code® (NFPA 101) Chapter C Life Safety Code® (NFPA 101) Chapter D

Health Care Occupancies (SAF-HEA)

Scope

This Committee shall have primary responsibility for documents on protection of human life andproperty from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people in health care and ambulatory health care occupancies.

Comment: The committee requested adding ambulatory health care, which are assigned chapters for them.

Responsibility

Life Safety Code® (NFPA 101) Chapter 18 Life Safety Code® (NFPA 101) Chapter 19 Life Safety Code® (NFPA 101) Chapter 20 Life Safety Code® (NFPA 101) Chapter 21

Industrial, Storage, and Miscellaneous Occupancies (SAF-IND)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in industrial and storage occupancies, special structures, and <u>windowless and undergroundlimited-access</u> buildings.

Responsibility

Life Safety Code® (NFPA 101) Chapter 11 Life Safety Code® (NFPA 101) Chapter 40 Life Safety Code® (NFPA 101) Chapter 42

Interior Finish and Contents (SAF-INT)

Scope

This Committee shall have primary responsibility for documents on <u>limiting the impact of interior finish</u>, <u>contents</u>, furnishings, and <u>combustible decorations</u> <u>building contents on as related to the</u> protection of human life <u>and property</u> from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people.

Comment: The existing wording about "limiting the impact of interior finish" is very awkward. Contents and combustible decoration are covered by this committee. "Building contents" was replaced with "contents" because outdoor furniture is within the scope of the chapter. "The phrase "as related to the protection" is in the scope of the Fire Protection Features committee.

Responsibility

Life Safety Code® (NFPA 101) Chapter 10

Means of Egress (SAF-MEA)

Scope

This Committee shall have primary responsibility for documents on the general requirements for safe egress for protection of human life from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people.

Responsibility

Life Safety Code® (NFPA 101) Annex B Life Safety Code® (NFPA 101) Chapter 7

Mercantile and Business Occupancies (SAF-MER)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and for the <u>nonemergency and</u> emergency movement of people in mercantile and business occupancies.

Responsibility

Life Safety Code® (NFPA 101) Chapter 36 Life Safety Code® (NFPA 101) Chapter 37 Life Safety Code® (NFPA 101) Chapter 38 Life Safety Code® (NFPA 101) Chapter 39

Residential Occupancies (SAF-RES)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people in hotels, dormitories, apartments, lodging and or rooming houses, and one- and two-family dwellings.

Responsibility

- Life Safety Code® (NFPA 101) Chapter 24
- Life Safety Code® (NFPA 101) Chapter 26
- Life Safety Code® (NFPA 101) Chapter 28
- Life Safety Code® (NFPA 101) Chapter 29
- Life Safety Code® (NFPA 101) Chapter 30
- Life Safety Code® (NFPA 101) Chapter 31

Committee Scope & Responsibility

Building Code (BLD-AAC)

Scope

This committee shall have primary responsibility for documents or portions of documents on the design and construction of every building or structure, including structural design methods and techniques, as well as the design of integrated building systems for health, safety, comfort, and convenience.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Building Construction and Safety Code® (NFPA 5000) Chapter 3

Assembly Occupancies (BLD-AXM)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people in assembly occupancies, tents, and membrane structures.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 16

Board and Care Facilities (BLD-BCF)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in residential board and care facilities.

Responsibility

Building Construction (BLD-BLC)

Scope

This committee shall have primary responsibility for documents on the selection and design of types of building construction, exterior walls, building height and area, firewalls, and fire barrier walls, as they relate to the protection of life and property from fire. For the processing of NFPA 5000, Chapter 7, and Sections 8.3 and 8.4, this committee reports directly to the NFPA 5000 Correlating Committee; whereas, for the processing of NFPA 220 and NFPA 221, this committee does not report to the NFPA 5000 Correlating Committee.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Annex D Building Construction and Safety Code® (NFPA 5000) Chapter 7 Building Construction and Safety Code® (NFPA 5000) Chapter 8.3 Building Construction and Safety Code® (NFPA 5000) Chapter 8.4 Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (NFPA 221) Standard on Types of Building Construction (NFPA220)

Building Service and Fire Protection Equipment (BLD-BSF)

Scope

This Committee shall have primary responsibility for documents on <u>building service</u>, fire protection, <u>and life safety equipment and systems the application of fire protection systems including detection</u>, alarm, and suppression, and the life safety impact of various building systems. as they relate to <u>protection of human life from fire and other circumstances capable of producing similar</u> consequences, and to the nonemergency and emergency movement of people.

<u>Comment: Building service, fire protection, and life safety equipment and systems are</u> <u>covered by this committee. The last phrase includes wording used on other committee</u> <u>scopes.</u>

Responsibility

Building Systems(BLD-BSY)

Scope

This Committee shall have primary responsibility for documents on the application of various building systems and features that relate to convenience, health, comfort, and access to a building.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Annex A Building Construction and Safety Code® (NFPA 5000) Annex B Building Construction and Safety Code® (NFPA 5000) Chapter 12 Building Construction and Safety Code® (NFPA 5000) Chapter 49 Building Construction and Safety Code® (NFPA 5000) Chapter 50 Building Construction and Safety Code® (NFPA 5000) Chapter 51 Building Construction and Safety Code® (NFPA 5000) Chapter 52 Building Construction and Safety Code® (NFPA 5000) Chapter 52 Building Construction and Safety Code® (NFPA 5000) Chapter 53 Building Construction and Safety Code® (NFPA 5000) Chapter 54 Building Construction and Safety Code® (NFPA 5000) Chapter 54 Building Construction and Safety Code® (NFPA 5000) Chapter 54 Building Construction and Safety Code® (NFPA 5000) Chapter 54

Detention and Correctional Occupancies (BLD-DET)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in detention and correctional occupancies.

Responsibility

Educational and Day-Care Occupancies (BLD-END)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in educational occupancies and day-care occupancies.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 17 Building Construction and Safety Code® (NFPA 5000) Chapter 18

Fire Protection Features (BLD-FIR)

Scope

This Committee shall have primary responsibility for documents on construction, compartmentation, <u>and special hazards including the performance of assemblies, openings, and penetrations</u>, as related to the protection of life and property from fire and other circumstances capable of producing similar consequences, and to the nonemergency and emergency movement of people.

Comment – Special hazards are included. The wording about "performance of assemblies, openings and penetrations" is not needed or grammatically correct. The addition of the last phrase is consistent with other committee scopes.

Responsibility

Fundamentals of the Building Code (BLD-FUN)

Scope

This Committee shall have primary responsibility for documents on the basic goals, objectives, performance requirements, and definitions for protection of human life and property from fire, earthquake, flood, wind, and other circumstances capable of producing similar consequences, on the nonemergency and emergency movement of people, and on high-rise buildings.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Annex G Building Construction and Safety Code® (NFPA 5000) Chapter 1 Building Construction and Safety Code® (NFPA 5000) Chapter 13 Building Construction and Safety Code® (NFPA 5000) Chapter 14 Building Construction and Safety Code® (NFPA 5000) Chapter 15 Building Construction and Safety Code® (NFPA 5000) Chapter 2 Building Construction and Safety Code® (NFPA 5000) Chapter 33 Building Construction and Safety Code® (NFPA 5000) Chapter 4 Building Construction and Safety Code® (NFPA 5000) Chapter 4 Building Construction and Safety Code® (NFPA 5000) Chapter 5 Building Construction and Safety Code® (NFPA 5000) Chapter 5

Health Care Occupancies (BLD-HEA)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in health care <u>and ambulatory health care</u> occupancies.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 19 Building Construction and Safety Code® (NFPA 5000) Chapter 20

Industrial, Storage, and Miscellaneous Occupancies (BLD-IND)

Scope

This Committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in industrial and storage occupancies, special structures, and <u>windowless and undergroundlimited-access</u> buildings.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 29 Building Construction and Safety Code® (NFPA 5000) Chapter 30 Building Construction and Safety Code® (NFPA 5000) Chapter 31 Building Construction and Safety Code® (NFPA 5000) Chapter 34

Interior Finish and Contents (BLD-INT)

Scope

This Committee shall have primary responsibility for documents on limiting the impact of interior finish, <u>contents</u> furnishings, and <u>building contents</u> combustible decorations as related to the on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people.

<u>Comment: The existing wording about "limiting the impact of interior finish" is very awkward.</u> <u>Contents and combustible decoration are covered by this committee. "Building contents" was</u> <u>replaced with "contents" because outdoor furniture is within the scope of the chapter. "The phrase</u> <u>"as related to the protection" is in the scope of the Fire Protection Features committee.</u>

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 10

Means of Egress (BLD-MEA)

Scope

This committee shall have primary responsibility for documents on the general requirements for safe egress for protection of human life from fire and other circumstances capable of producing similar consequences, and on the nonemergency and emergency movement of people.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Annex E Building Construction and Safety Code® (NFPA 5000) Chapter 11

Mercantile and Business Occupancies (BLD-MER)

Scope

This committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and for the <u>nonemergency and</u> emergency movement of people in mercantile and business occupancies.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 27 Building Construction and Safety Code® (NFPA 5000) Chapter 28

Residential Occupancies (BLD-RES)

Scope

This committee shall have primary responsibility for documents on protection of human life and property from fire and other circumstances capable of producing similar consequences, and on the <u>nonemergency and</u> emergency movement of people in hotels, dormitories, apartments, lodging <u>and</u> <u>or</u> rooming houses, and one- and two-family dwellings.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Chapter 22 Building Construction and Safety Code® (NFPA 5000) Chapter 23 Building Construction and Safety Code® (NFPA 5000) Chapter 24 Building Construction and Safety Code® (NFPA 5000) Chapter 25

Structures, Construction, and Materials (BLD-SCM)

Scope

This committee shall have primary responsibility for documents on the protection of human life and property from fire and environmental loads through the selection and design of structural elements and assemblies; construction techniques and methodologies; and on the application of building materials used in the construction of buildings, structures, and related facilities.

Responsibility

Building Construction and Safety Code® (NFPA 5000) Annex C Building Construction and Safety Code® (NFPA 5000) Annex F Building Construction and Safety Code® (NFPA 5000) Chapter 32 Building Construction and Safety Code® (NFPA 5000) Chapter 35 Building Construction and Safety Code® (NFPA 5000) Chapter 36 Building Construction and Safety Code® (NFPA 5000) Chapter 37 Building Construction and Safety Code® (NFPA 5000) Chapter 38 Building Construction and Safety Code® (NFPA 5000) Chapter 39 Building Construction and Safety Code® (NFPA 5000) Chapter 40 Building Construction and Safety Code® (NFPA 5000) Chapter 41 Building Construction and Safety Code® (NFPA 5000) Chapter 42 Building Construction and Safety Code® (NFPA 5000) Chapter 43 Building Construction and Safety Code® (NFPA 5000) Chapter 44 Building Construction and Safety Code® (NFPA 5000) Chapter 45 Building Construction and Safety Code® (NFPA 5000) Chapter 46 Building Construction and Safety Code® (NFPA

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Unobstructed	Way of Travel with direct line of sight without blind corners and obstac	eles or unexpected protrusions
tatement of Prob	em and Substantiation for Public Input	
Helps to justify the	meaning of a clear means of egress.	
elated Public Inp	uts for This Document	
Public Input No. 36	Related Input 1-NFPA 101-2024 [New Section after A.3.3.177.1]	Relationship Annex or Definition
ubmitter Informat	tion Verification	
Submitter Full Nar	ne: Brian Codzandski	
Organization:	[Not Specified]	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Tue Jun 04 16:08:34 EDT 2024	
		05 (Fushading and Oak Osotional I
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	NO. 288-NFPA 101-2024 [Section No. 3.3.	25 [Excluding any Sub-Sections]]
An area that is e automatic sprink smoke-resisting located in a path separation from from any level. (either (1) a story in a building where the building is pro- cler system and has not less than two accessible room partitions <u>and each such room or space has direct a</u> n of travel leading to a public way that is protected fro- other spaces in the same building or by virtue of loc (SAF-MEA)	rotected throughout by an approved, supervised oms or spaces separated from each other by access to an accessible exit ; or (2) a space om the effects of fire, either by means of ation, thereby permitting a delay in egress travel
atement of Probl	lem and Substantiation for Public Input	
The current definition responders would a two-way communica accessible exit such	on could be interpreted as allowing a room or space arrive thus delaying rescue. This is evident in Exhibit ation systems at elevator landings. The proposed ch h as an exit stairway or elevator in accordance with	distant from an elevator or stair by which emergency 7.178(d) of the Handbook. The code only requires hange requires the area of refuge to connect with an 7.5.4.
elated Public Inp	uts for This Document	
Public Input No. 29	Related Input 96-NFPA 101-2024 [New Section after 7.5]	<u>Relationship</u>
ıbmitter Informat	tion Verification	
Submitter Full Nan	ne: Ajay Prasad	
Organization:	Jensen Hughes	
Street Address:		
City:		
_		
State:		
State: Zip:		
State: Zip: Submittal Date:	Mon Jun 03 20:43:06 EDT 2024	



New Section after 3.3.165]
gress doors in series where only one of the doors in series is
or Public Input
r proposals in 7.2.1.6.5 and Chapters 18, 19, 20, 21, 36, 37, 38, 39, 40, and ules in these occupancies.
nental contamination control (nealth care; manufacturing clean rooms), s and cannabis), occupant protection (health care), security reasons
101 (3.3.256) and permitted in detention and correctional occupancies,
n, is predominately reserved for uses where occupants are restrained
PA 101 for interlocked-door vestibules.
<u>Relationship</u>
n after 7.2.1.6.4]
n after 7.2.1.6.4]
<u>n after A.7.2.1.6.4.1(1)]</u>
turers Association
2024



NFPA 101-2027 Projections into the clear width of door openings, consistent with the ADA. Revised June 4, 2024

7.2.1.2 Door Leaf Width.

7.2.1.2.1 * Measurement of Clear Width.

7.2.1.2.1.1 Swinging Door Assemblies.

For swinging door assemblies, clear width shall be measured as follows:

- (1) The measurement shall be taken at the narrowest point in the door opening.
- (2) The measurement shall be taken between the face of the door leaf and the stop of the frame.
- (3) For new swinging door assemblies, the measurement shall be taken with the door leaf open 90 degrees.
- (4) For any existing door assembly, the measurement shall be taken with the door leaf in the fully open position.
- (5) Projections of not more than 4 in. (100 mm) into the door opening width on the hinge side shall not be considered reductions in clear width, provided that such projections are for purposes of accommodating panic hardware or fire exit hardware and are located not less than 34 in. (865 mm), and not more than 48 in. (1220 mm), above the floor.
- (6) Projections exceeding 6 ft 8 in. (2030 mm) above the floor shall not be considered reductions in clear width.

Reason:

Currently, this section of NFPA 101 permits projections on not more than 4 in. into the door opening on the hinge side of the door – but permits no projections into the door opening on the latch side of the door. It is common that latch strikes are surface mounted, especially for panic hardware, and these latch strikes protrude into the door opening.

The proposed revisions are consistent with ADA requirements as we have not identified a need for 101 to be more restrictive than the ADA. Below is an illustration from the U.S. Access Board Technical Guide: Entrances, Doors, and Gates. Source: <u>https://www.access-board.gov/ada/guides/chapter-4-entrances-doors-and-gates/</u>



These pictures are of a door into a stairway. This typical installation of the latch for the panic hardware projects into the door opening on the latch side of the door frame.





Public Input No. 218-NFPA 101-2024 [Section No. 7.2.1.2.2.1] 7.2.1.2.2.1 Swinging Door Assemblies. For swinging door assemblies, egress capacity width shall be measured as follows: (1) The measurement shall be taken at the narrowest point in the door opening. (2) The measurement shall be taken between the face of the door leaf and the stop of the frame. (3) For new swinging doors assemblies, the measurement shall be taken with the door leaf open 90 degrees. (4) For any existing door assembly, the measurement shall be taken with the door leaf in the fully open position. (5) \star Projections not more than 3½ in. (90 mm) at each side of the door openings at a height of not more than 38 in. (965 mm) shall not be considered reductions in egress capacity width. (6) Projections exceeding 6 ft 8 in. (2030 mm) above the floor shall not be considered reductions in egress capacity width. A.7.2.1.2.2.1(5) Unlike the 4-inch projection for fire exit hardware and panic hardware devices, the 3-1/2-inch encroachments at both sides of the door opening are not for tangible door hardware or other materials. Instead, they apply the effective-width concept of building elements such as corridors, ramps, stairs, and doors referred to as the boundary/edge effect described in A.7.3.3.2. Essentially, the boundary/edge effect accounts for the human body's shape; we're narrower at our feet and wider at our shoulders. Consider how we walk through doorways; we tend to walk through the center area of the openings. Our feet create a natural clearance between the side jambs of the door frames as we step through the openings; otherwise, we would kick the frames with our feet and our shoulders would rub against them. The boundary/edge effect accounts for this naturally occurring clearance. Statement of Problem and Substantiation for Public Input The unspecified 3-1/2-inch projections create confusion in the field as they seem to be physical obstructions into the clear width of swinging egress doors, which are not allowed. This section addresses where the egress capacity widths of swinging doors is taken due to the effective-width concept described in A.7.3.3.2. The first paragraph in A.7.3.3.2 includes the following statement: "In essence, the effective width phenomenon recognizes that there is an edge or boundary effect at the sides of a circulation path..." The boundary/edge effect applies epecailly to door openings. This proposal clarifies that the projections allowed in 7.2.1.2.2.1(5) account for the boundary/edge effect as it applies to swinging egress doors. **Related Public Inputs for This Document** Related Input **Relationship** Public Input No. 219-NFPA 101-2024 [Section No. A.7.2.1.2.2] Proposed new Figure **Submitter Information Verification** Submitter Full Name: Keith Pardoe Organization: Pardoe Consulting LLC Affiliation: The Safe Doors Save Lives Foundation, Inc. Street Address: City: State: Zip: Submittal Date: Mon Jun 03 10:59:29 EDT 2024 Committee: SAF-MEA

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Public Input	No. 277-NFPA 101-2024 [New Section after 7.2.1.2.3.2]
NFPA	
7.2.1.2.3.3	Door Leaves that Swing in Opposite Directions
For a pair of de	pors that swing in opposite directions, each door required to swing in the direction of egress travel shall
provide the required minimum clear width _ and egress capacity width .	
Statement of Prol	blem and Substantiation for Public Input
This proposal add	ls provisions for where a pair of opposite-swinging doors are in the means of egress in proposed new
Section 7.2.1.2.3.3 Where the occurs	5. ant load is such that doors are required to swing in the direction of earess travel, the code currently does not
make it clear that is required to mee	each door which is required to swing in the direction of egress travel (of the pair of opposite-swinging doors) the required minimum clear width and egress capacity width.
Submitter Informa	ation Verification
Submitter Full Na	ame: John Woestman
Organization:	Kellen Company
Affiliation:	Builders Hardware Manufacturers Association
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Mon Jun 03 19:58:12 EDT 2024
a	



NFPA 101-2027 Door Leaf Height Revised June 4, 2024 John Woestman, BHMA

Insert new section after 7.2.1.2.3.2 (and revise title of 7.2.1.2):

7.2.1.2 Door Leaf Width and Height.

7.2.1.2.4 Door Leaf Height.

Doors in the means of egress shall be not less than 80 in. (2030 mm) in clear opening height. **7.2.1.2.4.1 Minimum Clear Height.** Projections into the required clear opening height by door closers, overhead door stops, door frame stops, power door operators, and electromagnetic door locks shall be permitted a minimum of 78 in.

(1980 mm) above the floor.

Reason:

A minimum clear height for door openings, and typical door hardware which projects or encroaches into the top of the door opening is not directly addressed in NFPA 101. The last item in each section: 7.2.1.2.1.1, 7.2.1.2.1.2, 7.2.1.2.2.1, and 7.2.1.2.2.2 implies that door openings are required to have a minimum height of 6 ft. 8 in. It is common for the identified door hardware items to be installed at the top of door openings which are 6 ft. 8 in. (80 in) tall.

This proposal is consistent with ADA requirements, as illustrated, below, from the U.S. Access Board Technical Guide: Entrances, Doors, and Gates. Source: <u>https://www.access-board.gov/ada/guides/chapter-4-entrances-doors-and-gates/</u>



Also, the title of 7.2.1.2 perhaps should be revised: 7.2.1.2 Door Leaf Width and Height.

A	
7.2.1.4.5.2	
The forces requ the leaf in motio follows:	red to fully open any door leaf manually in a means of egress shall not exceed 30 lbf (133 N) to set n, and 15 lbf (67 N) to open the leaf to the minimum required width, unless otherwise specified as
(1) The door op required fire	pening forces for interior side-hinged or pivoted-swinging-door leaves- without closers- other than <u>door assemblies</u> _shall not exceed 5 lbf (22 N).
(2) The door or the latch sti	bening forces for existing door leaves in existing buildings shall not exceed 50 lbf (222 N) applied to e.
(3) The door or provided in	pening forces for horizontal-sliding door leaves in detention and correctional occupancies shall be as Chapters 22 and 23.
(4) The openin	g forces for power-operated door leaves shall be as provided in 7.2.1.9.
NFPA 101 currently conflicts with ADA r	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces then doors required to be fire retend. Also
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is into mitter Informat	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements.
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is inte mitter Informat	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. Sion Verification
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is into omitter Informat Submitter Full Nar Organization:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. tion Verification me: John Woestman Kellen Company
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is into omitter Informat Submitter Full Nar Organization: Affiliation:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is inte omitter Informat Submitter Full Nar Organization: Affiliation: Street Address:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. Fion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is inte omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is into omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. Sion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is into omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
NFPA 101 currently conflicts with ADA r requirement (other requirement. This proposal is inte omitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	em and Substantiation for Public Input excludes doors with closers from the 5 lbf maximum door opening force requirement. This provision equirements which does not exempt interior doors with closers from the 5 lb door opening forces than doors required to be fire rated). Also, ADA requires interior sliding doors to comply with the 5 lb for ended to align NFPA 101 more closely with ADA requirements. tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association

7.2.1.5.3.4*	
Egress door ass individual _ bedr provided with de motion provided are operable frou <u>34 in. (865 mm)</u>	emblies from individual living units and guest rooms of residential occupancies, <u>and from</u> <u>ooms within dwelling units of an apartment building serving as a dormitory</u> , <u>shall be permitted to be</u> vices, including automatic latching devices, that require not more than one additional releasing that releasing does not require simultaneous operations <u>motions</u> , and provided that such devices m the inside without the use of a key or tool and are mounted at a height <u>not</u> <u>exceeding less than</u> <u>and not more than</u> 48 in. (1220 mm) above the finished floor.
tement of Probl	em and Substantiation for Public Input
Colleges and univer and individual bedro apartment building	rsities are increasingly constructing dormitories with suite-style living arrangements with a shared space coms. This proposal is about permitting locking of doors to individual bedrooms within dwelling units of a serving as a dormitory. And, a few editorial suggestions in the latter part of the paragraph.
Some college and u residence halls at U dining/housing-floor	iniversity dormitories and residence halls are designed and constructed with suite-style layouts. The lpstate University of South Carolina are one example: www.uscupstate.edu/campus-life/housing-and- -plans/.
Another example is index.	Clarkson College residence hall: www.clarksoncollege.edu/student-life/residence-life/floor-plan-layout/
NFPA 101 consider with one or more be number of suites, sl	s suite-style dormitories as apartment buildings, per 28.1.1.4: Any dormitory divided into suites of room drooms opening into a living room or study that has a door opening into a common corridor serving a nall be classified as an apartment building.
lated Public Inpu	uts for This Document
Public Input No. 27	Related InputRelationship2-NFPA 101-2024 [Section No. A.7.2.1.5.3.4]
bmitter Informat	ion Verification
Submitter Full Nan	ne: John Woestman
Organization:	Kellen Company
Affiliation:	Builders Hardware Manufacturers Association
Street Address:	
City:	
State:	
∠ıp:	
Submittal Data	

Public Input	No. 251-NFPA 101-2024 [Section No. 7.2.1.5.3.8]
FPA	
7.2.1.5.3.8 –	
Two releasing m existing day car	notions shall be permitted in existing educational occupancies in accordance with 15.2.2.2.4 and in e occupancies in accordance with 17.2.2.2.6 -
tatement of Prob	lem and Substantiation for Public Input
Correlation with pro	pposed revisions in 15.2.2.2.4.1, Item 3, and 17.2.2.2.6, Item 3
elated Public Inp	uts for This Document
	Related Input Relationship
Public Input No. 24	47-NFPA 101-2024 [Section No. 15.2.2.2.4]
Public Input No. 24	49-NFPA 101-2024 [Section No. 17.2.2.2.6]
Public Input No. 24	<u>47-NFPA 101-2024 [Section No. 15.2.2.2.4]</u>
Public Input No. 24	49-NFPA 101-2024 [Section No. 17.2.2.2.6]
ubmitter Informa	tion Verification
Submitter Full Nar	ne: John Woestman
Organization:	Kellen Company
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State:	
Zip:	
Submittal Date:	Mon Jun 03 17:50:24 EDT 2024
Committee:	SAF-MEA





Added (2)(c) is to require the door locking hardware to be "fail safe" by unlocking to permit re-entry upon power loss to the automatic release or to the electrical system controlling the release. Added (2)(d), for new installations, requires the ability to trigger the automatic release from a central location – the fire command center, and central control point, or other approved location.

In 7.2.1.5.7.2, we suggest inserting new Item 7 to clearly communicate in this section that requirements of 7.2.1.5.7 are not applicable to stair enclosure discharge doors.

Submitter Information Verification

Submitter Full Name:John WoestmanOrganization:Kellen CompanyAffiliation:Builders Hardware Manufacturers AssociationStreet Address:Image: City:State:Image: City:Zip:Image: City:Submittal Date:Mon Jun 03 20:17:48 EDT 2024Committee:SAF-MEA



15 of 91

Street Address:City:State:Zip:Submittal Date:Mon Jun 03 20:35:01 EDT 2024Committee:SAF-MEA

NFPA 101-2027 Editorial One Motion in 7.2.1.5.9, and Leaf Provide Free Egress 7.2.1.5.10 Revised June 3, 2024 John Woestman, BHMA

7.2.1.5.9

Where pairs of door leaves are required in a means of egress, one of the following criteria shall be met:

- (1) Each leaf of the pair shall be provided with a releasing device that does not depend on the release of one leaf before the other.
- (2) Approved automatic flush bolts shall be used and arranged such that both of the following criteria are met:
 - (a) The door leaf equipped with the automatic flush bolts shall have no doorknob or surfacemounted hardware on the egress side of the door.
 - (b) Unlatching of any leaf shall not require more than one <u>operation motion</u>.

7.2.1.5.10 *

On doors required to release all latching and all locking devices of the door leaf with not more than one releasing motion in accordance with 7.2.1.5.3.2, devices shall not be installed in connection with any door assembly where such devices prevent or are intended to prevent the free use of the leaf for purposes of egress, unless otherwise provided in 7.2.1.6 <u>7.2.1.6.1 and 7.2.1.6.4</u>, or in lockups in accordance with 22.4.6 or 23.4.6, or provided for in 18.2.2.2.5 for new health care occupancies, 19.2.2.2.5 for existing health care occupancies, 32.2.2.5.5.3 or 32.3.2.2.2(6) for new residential board and care occupancies, or 33.2.2.5.5.3 or 33.3.2.2.2(6) for existing residential board and care occupancies.

A.7.2.1.5.10

Examples of devices prohibited by this requirement include locks, padlocks, hasps, bars, chains, or combinations thereof. The electrical locking system in 7.2.1.6.1 is intended to delay free egress. The locking system in 7.2.1.6.4 is intended to prevent exit access from an elevator lobby through tenant spaces except during an emergency situation. The locking systems identified in health care occupancies and board and care occupancies are permitted because of the clinical needs or special needs of the occupants.

Reason:

The revision in 7.2.1.5.9.(2)(b) is editorial, and consistent with similar language in 101.

The revisions in 7.2.1.5.10, and the related Annex note, are intended to clarify the requirements in this section. Section 7.2.1.6 has four special locking arrangements. Only two of those locking arrangements permit preventing the free use of a door leaf for egress: 7.2.1.6.1 delayed egress, and 7.2.1.6.4 elevator lobby exit access door locking. In lockups in accordance with either of the two identified sections are permitted to prevent the free use of a door leaf for egress. The locking system in 18.2.2.2.5, and the locking systems in the subsequent identified sections, control egress and are variants of controlled egress locking systems.



7.2.1.6.1	* Delayed-Egress Electrical Locking Systems.
7.2.1.6.1	.1
Approved low- and detection accordan are met:	d, delayed-egress electrical locking systems shall be permitted to be installed on door assemblies serving ordinary-hazard contents in buildings protected throughout by an approved, supervised automatic fire system in accordance with Section 9.6 or an approved, supervised automatic sprinkler system in ice with Section 9.7, and where permitted in Chapters 11 through 43, provided that all of the following criteria
(1) The actua	delay of the delayed-egress electrical locking system shall deactivate allowing unobstructed egress upon ation of one of the following:
(2)	Approved, supervised automatic sprinkler system in accordance with Section 9.7
(3)	Not more than one heat detector of an approved, supervised automatic fire detection system in accordance with Section 9.6
(4)	Not more than two smoke detectors of an approved, supervised automatic fire detection system in accordance with Section 9.6
(5) The loss	delay of the delayed-egress electrical locking system shall deactivate allowing unobstructed egress upon of power controlling the lock or locking mechanism.
(6)* An ir 30 se requir	reversible process shall release the electrical lock in the direction of egress within 15 seconds, or conds where approved by the authority having jurisdiction, upon application of a force to the release device ed in 7.2.1.5.3 under all of the following conditions:
(7) <u>T</u>	he force shall not be required to exceed 15 lbf (67 N).
(8) <u>T</u>	he force shall not be required to be continuously applied for more than 3 seconds.
(9) <u>T</u>	he initiation of the release process shall activate an audible signal in the vicinity of the door opening.
Once	Э
(a)	Resetting and _rearming _the
elec	trical lock has been released by the application of force to the releasing device, rearming the
(a)	lock and the delay electronics shall be by manual means only.
(10 [°])A rea <i>Usabl</i> egres	adily visible, durable sign that conforms to the visual characters requirements of ICC A117.1, <i>Accessible and</i> <i>Buildings and Facilities</i> , shall be located on the door leaf adjacent to the release device in the direction of s, and shall read as follows:
(11 <u>)</u> d	USH UNTIL ALARM SOUNDS, DOOR CAN BE OPENED IN 15 SECONDS, for doors that swing in the irection of egress travel
(12 <u>P</u> <u>t</u> t	PULL UNTIL ALARM SOUNDS, DOOR CAN BE OPENED IN 15 SECONDS, for doors that swing against the direction of egress travel
(13) The eme	egress side of doors equipped with delayed-egress electrical locking systems shall be provided with rgency lighting in accordance with Section 7.9.
(14)Door with L	electromechanical or electromagnetic locking hardware for new installations shall be listed in accordance JL 294, Access Control System Units, or UL 1034, Burglary-Resistant Electric Locking Mechanisms.
7.2.1.6.1	.2
The prov electrical systems.	isions of 7.2.1.6.2 for sensor-release of electrical locking systems and 7.2.1.6.3 for door hardware release of ly locked egress door assemblies shall not apply to door assemblies with delayed-egress electrical locking
ional Pr	oposed Changes

Committee:

SAF-MEA

PDF of PI 281 illustrating proposed NFPA 101-2027 Delayed Egress Locking Systems Rearming 20240603.pdf revisions are only in 7.2.1.6.1.1(3)(d) Statement of Problem and Substantiation for Public Input The last sentence of Item 3 is typically interpreted to require the delay electronics to be rearmed after the delay of the delayed egress locking system has completed. Examining the current language, it has explicit requirements for rearming the locking system once the delay has completed, but, this sentence doesn't explicitly permit, or prohibit, rearming the delay electronics while the delay is underway. From a code perspective, if it's not prohibited, it's permitted. If this last sentence of Item 4 is interpreted that the delay electronics are not prohibited from being rearmed while the delay is underway, then it could be further interpreted the rearming could be executed by other than manual means only. Rearming the delayed egress locking system, after the delay has deactivated, by manual means only communicates the intent that an authorized person, typically an employee or staff person, is required to physically be at the door to investigate what triggered the activation of the delayed egress locking system and to ensure that it is safe to re-set the delay. With these thoughts in mind, the perspective from which the revisions to the last sentence of Item 3 are written: With a person at the delayed egress door to reset and rearm the locking system manually, and to ensure it's safe to do so, there's little, if any, difference if the delayed egress locking system is reset and rearmed while the delay is underway, or the locking system is reset and rearmed after the delay has completed. In other words, there's little, if any, benefit to be gained if the locking system may be rearmed only after the delay has completed, compared to permitting rearming the locking system at any time after the delay has been initiated, assuming the rearming is required to be by manual means only (a person physically is at the door). **Submitter Information Verification** Submitter Full Name: John Woestman **Organization:** Kellen Company Affiliation: **Builders Hardware Manufacturers Association** Street Address: City: State: Zip: **Submittal Date:** Mon Jun 03 20:12:34 EDT 2024

NFPA 101-2027 Delayed-Egress Locking Systems Rearming and Resetting Proposal Section 7.2.1.6.1 Revised June 3, 2024 John Woestman, BHMA

7.2.1.6.1 * Delayed-Egress Electrical Locking Systems.

7.2.1.6.1.1

Approved, delayed-egress electrical locking systems shall be permitted to be installed on door assemblies serving low- and ordinary-hazard contents in buildings protected throughout by an approved, supervised automatic fire detection system in accordance with Section 9.6 or an approved, supervised automatic sprinkler system in accordance with Section 9.7, and where permitted in Chapters 11 through 43, provided that all of the following criteria are met:

- (1) The delay of the delayed-egress electrical locking system shall deactivate allowing unobstructed egress upon actuation of one of the following:
 - (a) Approved, supervised automatic sprinkler system in accordance with Section 9.7
 - (b) Not more than one heat detector of an approved, supervised automatic fire detection system in accordance with Section 9.6
 - (c) Not more than two smoke detectors of an approved, supervised automatic fire detection system in accordance with Section 9.6
- (2) The delay of the delayed-egress electrical locking system shall deactivate allowing unobstructed egress upon loss of power controlling the lock or locking mechanism.
- (3) An irreversible process shall release the electrical lock in the direction of egress within 15 seconds, or 30 seconds where approved by the authority having jurisdiction, upon application of a force to the release device required in 7.2.1.5.3 under all of the following conditions:
 - (a) The force shall not be required to exceed 15 lbf (67 N).
 - (b) The force shall not be required to be continuously applied for more than 3 seconds.
 - (c) The initiation of the release process shall activate an audible signal in the vicinity of the door opening.
 - (d) Once the electrical lock has been released by the application of force to the releasing device, <u>Resetting and rearming the lock and</u> the delay electronics shall be by manual means only.
- (4) A readily visible, durable sign that conforms to the visual characters requirements of ICC A117.1, Accessible and Usable Buildings and Facilities, shall be located on the door leaf adjacent to the release device in the direction of egress, and shall read as follows:
 - (a) PUSH UNTIL ALARM SOUNDS, DOOR CAN BE OPENED IN 15 SECONDS, for doors that swing in the direction of egress travel
 - (b) PULL UNTIL ALARM SOUNDS, DOOR CAN BE OPENED IN 15 SECONDS, for doors that swing against the direction of egress travel
- (5) The egress side of doors equipped with delayed-egress electrical locking systems shall be provided with emergency lighting in accordance with Section 7.9.
- (6) Door electromechanical or electromagnetic locking hardware for new installations shall be listed in accordance with UL 294, Access Control System Units, or UL 1034, Burglary-Resistant Electric Locking Mechanisms.

7.2.1.6.1.2

The provisions of 7.2.1.6.2 for sensor-release of electrical locking systems and 7.2.1.6.3 for door hardware release of electrically locked egress door assemblies shall not apply to door assemblies with delayed-egress electrical locking systems.

Reason

The last sentence of Item 3 is typically interpreted to require the delay electronics to be rearmed after the delay of the delayed egress locking system has completed.

Examining the current language, it has explicit requirements for rearming the locking system once the delay has completed, but, this sentence doesn't explicitly permit, or prohibit, rearming the delay electronics while the delay is underway. From a code perspective, if it's not prohibited, it's permitted. If this last sentence of Item 4 is interpreted that the delay electronics are not prohibited from being rearmed while the delay is underway, then it could be further interpreted the rearming could be executed by other than manual means only.

Rearming the delayed egress locking system, after the delay has deactivated, by manual means only communicates the intent that an authorized person, typically an employee or staff person, is required to physically be at the door to investigate what triggered the activation of the delayed egress locking system and to ensure that it is safe to re-set the delay.

With these thoughts in mind, the perspective from which the revisions to the last sentence of Item 3 are written: With a person at the delayed egress door to reset and rearm the locking system manually, and to ensure it's safe to do so, there's little, if any, difference if the delayed egress locking system is reset and rearmed while the delay is underway, or the locking system is reset and rearmed after the delay has completed. In other words, there's little, if any, benefit to be gained if the locking system may be rearmed only after the delay has completed, compared to permitting rearming the locking system at any time after the delay has been initiated, assuming the rearming is required to be by manual means only (a person physically is at the door).

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App low dete acc are	proved, delayed-egress electrical locking systems shall be permitted to be installed on door assemblies serving - and ordinary-hazard contents in buildings protected throughout by an approved, supervised automatic fire ection system in accordance with Section 9.6 or an approved, supervised automatic sprinkler system in ordance with Section 9.7, and where permitted in Chapters 11 through 43, provided that all of the following criteria met:
(1)	The delay of the delayed-egress electrical locking system shall deactivate allowing unobstructed egress upon actuation of one of the following:
	(2) <u>Approved, supervised automatic sprinkler system in accordance with Section 9.7</u>
	Not
	(a) <u>One or more</u>
	than one
	(a) <u>heat</u>
	detector
	(a) detectors of an approved, supervised automatic fire detection system in accordance with Section 9.6
	Not
	(a) <u>Two or more</u>
	than two
	(a) <u>smoke detectors of an approved, supervised automatic fire detection system in accordance with</u> <u>Section 9.6</u>
(3)	The delay of the delayed-egress electrical locking system shall deactivate allowing unobstructed egress upon loss of power controlling the lock or locking mechanism.
(4)*	An irreversible process shall release the electrical lock in the direction of egress within 15 seconds, or 30 seconds where approved by the authority having jurisdiction, upon application of a force to the release device required in 7.2.1.5.3 under all of the following conditions:
	(5) The force shall not be required to exceed 15 lbf (67 N).
	(6) The force shall not be required to be continuously applied for more than 3 seconds.
	(7) The initiation of the release process shall activate an audible signal in the vicinity of the door opening.
	(8) <u>Once the electrical lock has been released by the application of force to the releasing device, rearming the delay electronics shall be by manual means only.</u>
(9)*	A readily visible, durable sign that conforms to the visual characters requirements of ICC A117.1, Accessible and Usable Buildings and Facilities, shall be located on the door leaf adjacent to the release device in the direction of egress, and shall read as follows:
	(10PUSH UNTIL ALARM SOUNDS, DOOR CAN BE OPENED IN 15 SECONDS, for doors that swing in the direction of egress travel
	(11)PULL UNTIL ALARM SOUNDS, DOOR CAN BE OPENED IN 15 SECONDS, for doors that swing against the direction of egress travel
[12]) The egress side of doors equipped with delayed-egress electrical locking systems shall be provided with emergency lighting in accordance with Section 7.9.
(13))Door electromechanical or electromagnetic locking hardware for new installations shall be listed in accordance with UL 294, Access Control System Units, or UL 1034, Burglary-Resistant Electric Locking Mechanisms.

two or more heat detectors or 3 or more smoke detectors are activated the delayed egress would not deactivate. I believe the intent was that the delayed-egress system would deactivate if one or more heat detectors or if two or more smoke detectors have activated,

Submitter Information Verification

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<u>7.2.1.6.2.1</u>
-
* <u>Where permitted in Chapters 11 through 43 , door assemblies in the means of</u>
egress e g ress shall be permitted to be equipped with sensor-release electrical
locking system
lockin g <u>s y stem hardware provided that all of the</u>
followin g _ criteria are _ met:
(1) <u>A sensor shall be provided on the</u>
egress
(1) <u>e g ress side</u> ,
arranged to electrically
(1) arran g ed to electricall y unlock the door leaf in the direction of
egress
(1) <u>egress upon detection of an</u>
approaching
(1) approachin g occupant.
(2) <u>Door leaves shall</u>
automatically
(1) <u>automaticall y electrically unlock in the direction of</u>
egress
(1) eg ress upon loss of power to the sensor or to the part of the
locking system that electrically
(1) lockin g s y stem that electricall y locks the door leaves.
(2) <u>Door locks shall be</u>
arranged to electrically
(1) <u>arran g ed to electricall y unlock in the direction of</u>
egress
(1) eg ress from a manual release device
complying
(1) <u>or</u> <u>contactless sensor</u> <u>comply in g with all of the</u>
following
(1) <u>followin g criteria:</u>
(2) <u>The manual release device</u> or contactless sensor shall be located on the
egress
(1)
(a) e g ress side,
40 in
(1)
(a) 40 in . to
48 in
(a) <u>40 in . to</u> 4 8 in

```
(1)
     (a) <u>48 in . (</u>
1015 mm
(1)
    (a) <u>1015 mm to</u>
1220 mm
(1)
    (a) <u>1220 mm</u>)
vertically
(1)
     (a) verticall y above the floor, and within
60 in
(1)
    (a) <u>60 in . (</u>
1525 mm
(1)
     (a)
         <u>1525 mm</u>
             1525 mm ) of the secured door
openings
             openin g s , _ except _ as _ otherwise _ permitted
by
             <u>by 7.2.1.6.2.1 (3)</u>
         þ
             <u>c_).</u>
(1)
     (a) _<u>The requirement of 7.2.1.6.2.1 (3)(a)</u> to locate the manual release device _or contactless sensor
          within
60 in
(1)
     (a) <u>60 in . (</u>
1525 mm
(1)
    (a) 1525 mm) of the secured door
opening
(1)
     (a) openin g shall not
apply
(1)
     (a) <u>apply to previously approved existing installations.</u>
     (b) <u>The manual release device</u>, <u>where provided</u>, <u>shall be</u>
readily
(1)
```

(a) <u>readil y accessible and clearly identified by a</u>			
sign			
(1)			
(a) <u>sig n_that reads as follows: PUSH TO EXIT.</u>			
(b) <u>* The contactless sensor, where provided, shall be readil y accessible and clearly identified by a si gn</u> that _ reads as _ follows: _ WAVE TO EXIT			
(c) _When operated, the manual release device _ or contactless sensor _ shall result in direct interruption of			
power			
(1)			
(a) <u>p ower to the electrical lock — independent of the</u>			
locking system			
(1)			
(a) lockin g s y stem electronics — and the lock shall remain unlocked for not less than			
30 seconds. Activation of the building fire-protective signaling system			
(1)			
(a) <u>30 seconds.</u>			
(b) * The contactless sensor referenced in 7.2.1.6.2.1(3) that is used to automaticall y unlock the doors in			
the <u>direction of e g ress shall be independent of the sensor referenced in 7.2.1.6.2.1(1) and 7.2.1.6.1.</u> (2).			
(2) <u>Activation of the buildin g fire-protective si g nalin g s y stem , if provided, shall</u>			
automatically			
(1) automaticall y_electrically unlock_the door leaves in the direction of			
egress			
(1) e g ress , and the door leaves shall remain			
electrically			
(1) <u>electricall y_unlocked until the_fire-protective</u>			
signaling system			
(1) si g nalin g s y stem has been			
manually			
(1) manually reset.			
(2) <u>The activation of manual fire alarm boxes that activate the</u>			
building			
(1) <u>buildin g fire-protective</u>			
signaling system			
(1) sig naling system specified in 7.2.1.6.2.1 (4) shall not be required to unlock the door leaves.			
(2) <u>Activation of the</u>			
building			
(1) <u>buildin g automatic sprinkler or fire detection</u>			
system			
(1) <u>s y stem , if provided, shall</u>			
automatically electrically			
(1) automaticall y electricall y unlock the door leaves in the direction of			
eares			

eg ress, and the door leaves shall remain electrically (1) electricall y unlocked until the fire-protective signaling system (1) signalingsystem has been manually (1) manuall y reset. (2) <u>The</u> egress (1) <u>e g ress side of sensor-release</u> electrically (1) electricall y locked egress (1) eg ress doors, other than existing (1) existin g sensor-release electrically (1) <u>electricall y</u> locked egress (1) eg ress doors, shall be provided with emergency lighting (1) emer g enc y lig htin g in accordance with Section (1) Section Section <u>7.9</u>. * Door electromechanical or electromagnetic locking hardware (1) <u>Hardware</u> for new installations shall be listed in accordance with UL 294, (1) _ANSI/_UL 294 , _Standard for _Access _Control System Units, or UL 1034, Burglary-Resistant Electric Locking Mechanisms (1) <u>System Units</u>. **Additional Proposed Changes** File Name Description **Approved** 101_PC#70 PC70-101 SAF-MEA.pdf Statement of Problem and Substantiation for Public Input NOTE: This Public Input appeared as "Reject but Hold" in Public Comment No. 70 of the (A2023) Second Draft Report for NFPA 101 and per the Regs. at 4.4.8.3.1 and needs to be reconsidered by the TC for the next edition of the document. The use of contactless sensors to open doors is becoming more prevalent due to Covid and other concerns about the spread of infection, especially in health care settings. Contactless sensors (e.g., "wave to open" devices) can perform similarly to manual "push to exit" devices and should therefore be permitted as a substitute for "push to exit" devices, but only if they are listed to UL 294 and only if they are configured to be independent of the (overhead motion) sensors used to unlock the door

upon occupant approach such that a single failure can't result in both types of sensors failing simultaneously. To avoid confusion, annex material is added to discuss the differences between the existing (overhead motion) sensors used to unlock doors upon occupant approach and the proposed contactless sensors to unlock doors in the event the (overhead motion) sensors fail. Text is also included that clarifies that contactless sensors can currently be used, but only as a supplement to "push to exit" devices. **Submitter Information Verification** Submitter Full Name: **Organization:** Holds Street Address: City: State: Zip: Submittal Date: Mon Jan 15 14:50:44 EST 2024 SAF-MEA Committee:



spread of infection, especially in health care settings. Contactless sensors (e.g., "wave to open" devices) can perform similarly to manual "push to exit" devices and should therefore be permitted as a substitute for "push to exit" devices, but only if they are listed to UL 294 and only if they are configured to be independent of the (overhead motion) sensors used to unlock the door upon occupant approach such that a single failure can't result in both types of sensors failing simultaneously. To avoid confusion, annex material is added to discuss the differences between the existing (overhead motion) sensors used to unlock doors upon occupant approach and the proposed contactless sensors to unlock doors in the event the (overhead motion) sensors fail. Text is also included that clarifies that contactless sensors can currently be used, but only as a supplement to "push to exit" devices. Related Item • • A.7.2.1.6.2 text Submitter Information Verification Submitter Full Name: Joshua Elvove **Organization:** Self Street Address: City: State: Zip: Submittal Date: Fri Apr 15 00:23:13 EDT 2022 Committee: SAF-MEA **Committee Statement** Committee Rejected but held Action: **Resolution:** The proposed revision is new material. The inclusion of common terminology would be advantageous during the next revision cycle.



Public Input No. 77-NFPA 101-2024 [New Section after A.7.2.1.6.2]

Submitter Information Verification


opened. The proposed requirements for interlock override switches, for "fail-safe" interlocks in the event of power failure, and to deactivate the interlock upon activation of the sprinkler system or smoke detection system are all intended to ensure unencumbered egress when and if needed.

An interlocked-door vestibule, which may also be known as an airlock, interlock, or man-trap, can help limit the passage of contaminants by allowing only one door to be open at a time, or controls access to and egress from an area for security reasons (such as in a data center or prescription drug dispensary). This image illustrates one of the common applications, an interlocked-door vestibule serving a clean room in a laboratory environment. Air-flow in or out is limited with normal operation as only one door may be opened at a time. In an emergency, both doors may be opened simultaneously, via the override switch beside each door.

Please see the attached pdf for illustrations of interlocked-door vestibules and additional description of their operation.

Related Public Inputs for This Document

Related Input

Relationship

<u>Related Input</u>
Public Input No. 297-NFPA 101-2024 [New Section after 3.3.165]
Public Input No. 299-NFPA 101-2024 [New Section after A.7.2.1.6.4.1(1)]
Public Input No. 297-NFPA 101-2024 [New Section after 3.3.165]
Public Input No. 299-NFPA 101-2024 [New Section after A.7.2.1.6.4.1(1)]
Public Input No. 300-NFPA 101-2024 [New Section after 18.2.5.7.4]
Public Input No. 301-NFPA 101-2024 [New Section after 19.2.5.7.4]
Public Input No. 303-NFPA 101-2024 [New Section after 20.2.5.3.2]
Public Input No. 304-NFPA 101-2024 [New Section after 21.2.5.3]
Public Input No. 305-NFPA 101-2024 [New Section after 36.2.5.11]
Public Input No. 306-NFPA 101-2024 [New Section after 37.2.5.11]
Public Input No. 307-NFPA 101-2024 [New Section after 38.2.5.3.2]
Public Input No. 308-NFPA 101-2024 [New Section after 39.2.5.3]
Public Input No. 309-NFPA 101-2024 [New Section after 40.2.5.3.2]
Public Input No. 310-NFPA 101-2024 [New Section after 42.2.5]

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Committee:	SAF-MEA				

NFPA 101 Special Locking Arrangement – Interlocked-Door Vestibule John Woestman, BHMA Revised June 3, 2024

Interlocked-Door Vestibule.

A room, space, or compartment provided with egress doors in series where only one of the doors in series is openable at a time.

Reason:

This proposed definition along with complementary proposals in 7.2.1.6.5 and Chapters 18, 19, 20, 21, 36, 37, 38, 39, 40, and 42, offer the opportunity for interlocked-door vestibules in these occupancies. Interlocked-door vestibules are utilized for environmental contamination control (health care; manufacturing clean rooms), controlled substance dispensing (prescription drugs and cannabis), occupant protection (health care), security reasons (money handling rooms), and other uses and applications.

Sally ports (security vestibule) are defined in NFPA 101 (3.3.256) and permitted in detention and correctional occupancies, sally ports are typically used as security vestibules and control egress (obviously).

Unfortunately, the term "sally port", and its definition, is predominately reserved for uses where occupants are restrained against their will in buildings or spaces.

This proposal seeks to include requirements in NFPA 101 for interlocked-door vestibules.

Chapter 7 Mean of Egress

7.2.1.6.5 Interlocked-Door Vestibule

Where permitted in chapters 11 through 43 with low- and ordinary-hazard contents, an interlocked-door vestibule shall be permitted in the means of egress where there are provisions for continuous and unobstructed travel through the interlocked-door vestibule during an emergency egress condition. Interlocked-door vestibules shall comply with all of the following:

- 1. The building is protected throughout by an approved automatic sprinkler system in accordance with 9.7, or the area served by the interlocked-door vestibule is protected by an approved automatic smoke detection system in accordance with Section 9.6.
- 2. Interlock override switches, which disable the interlocks of the doors of the interlocked-door vestibule for not less than 30 seconds, shall be provided on the egress side of each door of the interlocked-door vestibule. Where the interlocked-door vestibule is installed to impede egress for security reasons, the override switches shall be permitted to be moved to an alternative location by approval of the Authority Having Jurisdiction.
- 3. The interlock override switches shall be within 48 in. (1220 mm) of door and between 34 in. (865 mm) and 48 in. (1220 mm) above the floor.
- 4. The operation of each interlock override switch shall result in direct interruption of power to the interlock.
- 5. Signage shall be provided at each override switch describing its operation.
- 6. Upon loss of power to the interlock function of the doors of the interlocked-door vestibule, the interlock function shall be disabled.
- 7. The interlocks of the doors of the interlocked-door vestibule shall deactivate upon activation of the automatic sprinkler system or the automatic smoke detection system required by Item 2.
- 8. Doors of an interlocked-door vestibule shall be self-closing.
- 9. Doors of an interlocked-door vestibule shall swing in the direction of egress travel except for powered doors in accordance with Section 7.2.1.9.
- 10. The egress path shall not pass through more than one interlocked-door vestibule.
- <u>11. Door electrical locking hardware for new installations shall be listed in accordance with UL 294,</u> <u>Access Control System Units, or UL 1034, Burglary-Resistant Locking Mechanisms.</u>
- 12. The fire department with responsibility for responding to a building that contains an interlockeddoor vestibule shall be notified of the presence of the interlocked-door vestibule.

Reason:

This proposal, along with complementary proposals in Chapters 18, 19, 20, 21, 36, 37, 38, 39, 40, and 42 offer the opportunity for interlocked-door vestibules in these occupancies.

Interlocked-door vestibules are utilized for environmental contamination control (health care; manufacturing clean rooms), controlled substance dispensing (prescription drugs and cannabis), occupant protection (health care), security reasons (money handling rooms), and other uses and applications.

This proposal addresses the egress aspects of interlocked-door vestibules. Ingress and controlling access into a building or space is not addressed by these proposed provisions.

An occupant egressing through an interlocked-door vestibule would not be delayed at the second door in series if the first door in series is in a closed position. Conversely, if the first door is not closed, the second door would not be able to be opened. The proposed requirements for interlock override switches, for "fail-safe" interlocks in the event of power failure, and to deactivate the interlock upon activation of the sprinkler system or smoke detection system are all intended to ensure unencumbered egress when and if needed.



An interlocked-door vestibule, which may also be known as an airlock, interlock, or man-trap, can help limit the passage of contaminants by allowing only one door to be open at a time, or controls access to and egress from an area for security reasons (such as in a data center or prescription drug dispensary). This image illustrates one of the common applications, an interlocked-door vestibule serving a clean room in a laboratory environment. Air-flow in or out is limited with normal operation as only one door may be opened at a time. In an emergency, both doors may be opened simultaneously, via the override switch beside each door.

When both doors are in the closed position, they may either allow free access or they may be equipped with access control, but they will allow egress.



When the outer door (Door 1) is opened, the inner door (Door 2) is locked and can not be opened. When Door 1 closes, either door may be opened.



When the inner door (Door 2) is opened, the outer door (Door 1) is locked and can not be opened. When Door 2 closes, either door may be opened.



The override switch located next to each door may be used to unlock both doors at the same time, in case of emergency.



The proposed criteria were developed during the development process for the 2024 edition of NFPA 101, and further revised reflecting subsequent discussion on this topic.

<u>A 7.2.1.6.5</u>

Interlocked-door vestibules are as the name implies: a vestibule with interlocked-doors. The egress door into the vestibule is interlocked with the door leading out of the vestibule such that only one of the doors can be open at a given time.

Interlocked-door vestibules may be utilized for environmental contamination control (health care; manufacturing clean rooms), controlled substance dispensing (prescription drugs and cannabis), occupant protection (health care), security reasons (money handling rooms), and other uses and applications.

An occupant egressing through an interlocked-door vestibule would not be delayed at the second door in series if the first door in series is in a closed position. Conversely, if the first door is not closed, the second door would not be able to be opened. The requirements for interlock override switches, for "fail-safe" interlocks in the event of power failure, and to deactivate the interlock upon activation of the sprinkler system or smoke detection system are all intended to ensure unencumbered egress through the interlocked-door vestibule if and when needed.





In these scenarios, the provisions and requirements of 7.2.1.7.1 and 7.2.1.7.4 don't apply since the occupancies involved don't REQUIRE panic hardware or fire exit hardware to be used.

The proposed changes are consistent with how the Code addresses other door hardware components (e.g., locks and latches) by focusing on their installation and operation, not the doors on which they are used.

In the interest of public safety, it makes sense that all installations of panic hardware and fire exit hardware in the Code comply with the provisions and requirements of Section 7.2.1.7 Panic Hardware and Fire Exit Hardware in its entirety, regardless of whether the Code requires it or merely permits its use.

Item (1) the phrase "...measured from the latch stile..." has been used in the Code since at least the late 1980s as it applied to the installation of panic hardware on balanced doors. Recently, it was added to this section during the NFPA 101 (2021) revision cycle (see FR No. 6547-NFPA 101-2018), making it apply to all applications of panic hardware and fire exit hardware devices. The reason this phrase was used for balanced doors was to ensure the active push pad did not extend beyond the

offset pivot point of the doors, creating a fulcrum, thereby potentially impairing or prohibiting the opening of the doors in the direction of egress; that condition does not exist on side-hinged and pivoted-swinging doors. More importantly, as it is currently written, Item (1) requires the measurement to be taken across the door's width from the latch stile of the door—the outermost vertical edge of the door. Depending on the design of panic hardware and fire exit hardware devices, active crossbars or push pads are inset from the latch stile of the doors approximately 3 to 6 inches, extending therefrom laterally toward the hinge side of the door, for at least one-half the width of the doors. No installations of panic hardware or fire exit hardware or fire exit hardware that can comply with this requirement.

The proposed changes to Item (3) improve readability and clarify that the specified horizontal force is "applied" to the crossbars and push pads "in the direction of egress"—no technical changes were made. The phrase in the direction of egress" is consistent with door hardware terminology used elsewhere in Chapter 7.

While Chapter 8 requires the installation of all fire-rated doors to comply with NFPA 80, new Item (4) explicitly requires fire exit hardware devices to comply with NFPA 80, as well as the listings of the doors to which they are attached, their own listings, and manufacturer's installation instructions.

Lastly, in the context of Section 7.2.1.7, the term "crossbar" should be one word.

Submitter Information Verification

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Committee:	SAF-MEA













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JULY 25, 2019 #P472

Revision 01

45-60-90-MINUTE DOUBLE EGRESS

VT has approval to manufacture and label pairs of double egress doors up to 90minutes. This application is available with less-bottom-rod concealed vertical rods (except for plastic faced doors) or surface vertical rods (full or less- bottom-rod) hardware.

We can use any approved hardware, but will not machine for Monarch or American CVRs.

- Opening size is limited to 8-0 x 8-0 maximum size.
- Only available with Category A meeting edges.
- Full or partial height metal edges or metal edge and astragals are allowed with surface vertical rod hardware.
- With less-bottom-rod devices 5 auxiliary fire latches are required (one on the meeting edges, one in each top rail, and one in each bottom rail).
- With top and bottom surface vertical rods 3 auxiliary fire latches are required. (One on the meeting edge and one in each top rail).

E.

-

Public Input	No. 11-NFPA 101-2024 [Section No. 7.2.1.7.3]
7.2.1.7.3*	
Only approved f new fire exit har	ire exit hardware shall be used on fire- protection- rated door assemblies. New panic hardware and dware shall comply with UL 305, <i>Panic Hardware</i> , and ANSI/BHMA A156.3, <i>Exit Devices</i> .
Statement of Prob	lem and Substantiation for Public Input
Fire exit hardware of pivoted swinging do doors. The propose Alternatively, this so the current stateme Submitter Informat	devices can be (and are) used on both fire protection-rated and fire resistance-rated side-hinged and bors. As currently written, 7.2.1.7.3 seems to exclude using fire exit hardware on fire resistance-rated ad change removes "protection" thereby including both fire protection-rated and fire resistance-rated doors. action could be modified to insert " and fire resistance-rated" immediately following "protection-rated" in ent.
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Statement of Problem and Substantiation for Public Input

Since the Code requires certain doors to be kept closed, closing devices on doors with self-closing operation must be adjusted to ensure the doors close from the full-open, as well as any partially-open positions. 7.2.1.8.1 applies to both firerated and non-fire-rated doors. The closing devices cannot have manual hold-open functions, and the doors cannot have any other manually-operated hold-open devices (e.g., kick-down and overhead door holders, etc.). Binding of doors against door frames, opposing leaves of paired doors, and floors impair and prevent reliable closing of self-closing doors. NFPA 80's inspection and testing requirements verifies the free movement of self-closing fire-rated doors. However, NFPA 101 does not specify the movement of non-fire-rated self-closing doors to be free from binding or other impairments.

The proposed new section clarifies that where doors are required to have self-closing operation, the doors need to move easily (and freely) and close reliably.

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Committee:	SAF-MEA				









7.2.1.10.2

Where permitted in Chapters 11 through 43, revolving door assemblies shall be permitted as a component in a means of egress, provided that all of the following criteria are met:

- (1) Revolving door openings shall not be given credit for more than 50 percent of the required egress capacity.
- (2) Each revolving door opening shall not be credited with more than a 50-person capacity or, if of not less than a 9 ft (2745 mm) diameter, a revolving door assembly shall be permitted egress capacity based on the clear opening width provided when collapsed into a book-fold position.
- (3) Revolving door wings shall be capable of being collapsed into a book-fold position when a force not exceeding 130 lbf (580 N) is applied to the wings within 3 in. (75 mm) of the outer edge.

7.2.1.10.3

Revolving door assemblies not used as a component of a means of egress shall have a collapsing force not exceeding 180 lbf (800 N) applied at a point 3 in. (75 mm) from the outer edge of the outer wing stile and 40 in. (1015 mm) above the floor.

7.2.1.10.4

The requirement of 7.2.1.10.3 shall not apply to revolving door assemblies, provided that the collapsing force is reduced to a force not to exceed 130 lbf (580 N) under all of the following conditions:

- (1) Power failure, or removal of power to the device holding the wings in position
- (2) Actuation of the automatic sprinkler system, where such a system is provided
- (3) Actuation of a smoke detection system that is installed to provide coverage in all areas within the building that are within 75 ft (23 m) of the revolving door assemblies
- (4) Actuation of a clearly identified manual control switch in an approved location that reduces the holding force to a force not to exceed 130 lbf (580 N)

Additional Proposed Changes

File Name

Description PDF of proposed revisions of

PI 276.

Approved

NFPA_101-2027_Door_Beside_Revolving_Door_Proposal_20240603.pdf

Statement of Problem and Substantiation for Public Input

The text in Item 7 is proposed to be revised as the current requirements are unnecessarily restrictive by requiring specifically a side-hinged swinging door where other types of doors could also be used.

The proposed revisions reflect what we believe is the intent of Item 7: For normal ingress and egress, and for emergency egress, revolving doors must be complemented with a minimum of one nearby door that is not a revolving door, and which meets all the requirements for egress.

It is not uncommon for the door beside a revolving door to be a low-energy power-operated hinged door. The current code language doesn't specifically permit a power-operated hinged door beside a revolving door. This could result in the interpretation that a low-energy power-operated hinged door is not permitted in that application.

A pdf is attached to more clearly illustrate the proposed revisions.

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Committee:	SAF-MEA				

NFPA 101-2027 Door Beside Revolving Door Proposal Section 7.2.1.10.1 Revised June 3, 2024 John Woestman, BHMA

7.2.1.10 Revolving Door Assemblies.

7.2.1.10.1

Revolving door assemblies, whether used or not used in the means of egress, shall comply with all of the following:

- (1) New revolving doors shall comply with ANSI/BHMA A156.27, Power and Manual Operated Revolving Pedestrian Doors, and shall be installed in accordance with the manufacturer's installation instructions.
- (2) Revolving door wings shall be capable of book-fold or breakout for egress in accordance with ANSI/BHMA A156.27, unless they are existing revolving doors approved by the authority having jurisdiction.
- (3) When revolving door wings are collapsed into the book-fold position, the parallel egress paths formed shall provide an aggregate width of 36 in. (915 mm), unless they are approved existing revolving door assemblies.
- (4) Revolving door assemblies shall not be used within 10 ft (3050 mm) of the foot or the top of stairs or escalators.
- (5) A dispersal area acceptable to the authority having jurisdiction shall be located between stairs or escalators and the revolving door assembly.
- (6) The revolutions per minute (rpm) of door wings shall not exceed the following:
 (a) The values in Table 7.2.1.10.1 for existing revolving doors.
 (b) The values in ANSI/BHMA A156.27 for new revolving doors.
- (7) Each revolving door assembly shall have a conforming <u>side hinged swinging door</u> assembly <u>other</u> than a revolving door in the same wall as the revolving door within 10 ft (3050 mm) of the revolving door, unless one of the following conditions applies:
 - (a) Revolving door assemblies shall be permitted without adjacent <u>swinging_conforming</u> door assemblies, as required by 7.2.1.10.1(67), in street floor elevator lobbies, provided that no stairways or door openings from other parts of the building discharge through the lobby and the lobby has no occupancy other than as a means of travel between the elevators and street.
 - (b) The requirement of 7.2.1.10.1(67) shall not apply to existing revolving door assemblies where the number of revolving door assemblies does not exceed the number of swinging door assemblies within 20 ft (6100 mm) of the revolving door assembly.

Reason:

The text in Item 7 is proposed to be revised as the current requirements are unnecessarily restrictive by requiring specifically a side-hinged swinging door where other types of doors could also be used. The proposed revisions reflect what we believe is the intent of Item 7: For normal ingress and egress, and for emergency egress, revolving doors must be complemented with a minimum of one nearby door that is not a revolving door, and which meets all the requirements for egress.

It is not uncommon for the door beside a revolving door to be a low-energy power-operated hinged door. The current code language doesn't specifically permit a power-operated hinged door beside a revolving door. This could result in the interpretation that a low-energy power-operated hinged door is not permitted in that application.

Commented [JW1]: This "revision" should be addressed as an errata in the 2024, 2021, and 2018 editions of NFPA 101

Same issue in (b) of this item.

Г

(B)*					
Where stairs set obstructions, ex- accordance with 7.2.2.2.1.2(F).	rve occupant loads exceeding that permitted by 7.2.2.2.1.2(A), the mini cept projections not more than $4\frac{1}{2}$ in. (114 mm) at or below handrail he trable 7.2.2.2.1.2(B) and the requirements of 7.2.2.2.1.2(C), 7.2.2.2.1.2(C)	mum width ight on eac 2(D), 7.2.2.	clea h sid 2.1.2	r of all le, sha !(E), ar	ll be in nd
Table 7.2.2.2.1.	2(B) New Stair Width				
		=		W	/idth
	Total Cumulative Occupant Load Assigned to the Stair		=	<u>in.</u>	mm
	<2000 persons	-		44	1120
	≥2000 persons	-		56	1420
provided based	on the occupant load of the floor, not to be based on the cumulative loa	id assigned	to s	<u>tair.</u>	
provided based ement of Probl he current require	on the occupant load of the floor, not to be based on the cumulative load lem and Substantiation for Public Input ment of the stair width of 56 in. (1420 mm) becomes impractical someti	netimes. In Id assigned	<u>le sua</u>	tair.	
provided based ement of Probl he current require nitter Informat	on the occupant load of the floor, not to be based on the cumulative load lem and Substantiation for Public Input ment of the stair width of 56 in. (1420 mm) becomes impractical someti tion Verification	mes.	<u>to s</u>		
provided based ement of Probl he current require mitter Informat ubmitter Full Nar	on the occupant load of the floor, not to be based on the cumulative load lem and Substantiation for Public Input ment of the stair width of 56 in. (1420 mm) becomes impractical someti tion Verification me: Zainul Abedeen	mes.	to s	tair.	
provided based ement of Probl he current require mitter Informat ubmitter Full Nar rganization:	on the occupant load of the floor, not to be based on the cumulative load lem and Substantiation for Public Input ment of the stair width of 56 in. (1420 mm) becomes impractical someting tion Verification me: Zainul Abedeen WSP Middle East	mes.	to s	tair.	
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provided based ement of Probl he current require nitter Informat ubmitter Full Nar rganization: treet Address: ity: tate: ip: ubmittal Date:	on the occupant load of the floor, not to be based on the cumulative loader and Substantiation for Public Input ment of the stair width of 56 in. (1420 mm) becomes impractical someting tion Verification me: Zainul Abedeen WSP Middle East	mes.	<u>l to s</u>	tair.	

Public Input I	Io. 78-NFPA 101-2024 [Section No. 7.2.2.4.5.5]
7.2.2.4.5.5	
New handrails s wall <u>, guard, or o</u>	nall be installed to provide a clearance of not less than 2¼ in. (57 mm) between the handrail and the <u>ther surface</u> to which it is fastened.
atement of Probl	em and Substantiation for Public Input
on the outer side of non-wall surfaces w requirement applies	the stair treads. The inside handrails are typically mounted to guards, top railings, newel posts, or othe hich would not require this clearance. The updated language clarifies that the 2.25 inch clearance to all handrail mount locations, not just on walls.
Submitter Full Nan	ne: Adam Graybeal
Organization:	Koffel Compliance, LLC
Street Address:	
O ¹	
City:	
City: State:	
City: State: Zip:	
City: State: Zip: Submittal Date:	Tue Apr 30 11:23:52 EDT 2024



Public Input	No. 60-NFPA 101-2024 [Section No. 7.2.2.4.6.3]
NFPA	
7.2.2.4.6.3*	
Open guards, o that a sphere 4 and the followin	ther than approved existing open guards, shall have intermediate rails or an ornamental pattern such in. (100 mm) in diameter is not able to pass through any opening up to a height of 34 in. (865 mm), g also shall apply <u>except as permitted by following</u> :
(1) The trianguing shall be of	lar openings formed by the riser, tread, and bottom element of a guardrail at the open side of a stair such size that a sphere 6 in. (150 mm) in diameter is not able to pass through the triangular opening.
(2) In detentior distance be have openi	n and correctional occupancies, in industrial occupancies, and in storage occupancies, the clear otween intermediate rails, measured at right angles to the rails, shall not exceed- <u>guards shall not</u> ngs that allow passage of a sphere_21 in. (535 mm) <u>in diameter</u> .
Statement of Prob	lem and Substantiation for Public Input
The term "and the sphere rule must b	following shall apply" contained at the end of 7.2.2.4.6.3 has caused some AHJs to interpret that the 4-inch e applied regardless of the 21-inch allowance permitted in 7.2.2.4.6.3(2).
Submitter Informa	tion Verification
Submitter Full Na	me: Samuel Dannaway
Organization:	Coffman Engineers, Inc
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Apr 02 14:09:11 EDT 2024
Committee	

where a- an existing_two-story exit enclosure connects- stair connects_ the story of exit cent story, the exit shall-stair shall be permitted to be enclosed with 1-hour fire resistance on the story of exit discharge, provided that not less than 50 percent of the number and capacity exit discharge are independent of such enclosures. Ind Substantiation for Public Input vides some confusion as it refers to an enclosure that is not enclosed. To the permitted stair arrangement as an "exit enclosure"; exit enclosures have special protection ar whether the exit enclosure protections of 7.1.3.2.1 are intended to be applied on the discharge to be protected in accordance with 7.1.3.2.1 even though it is permitted to the non-discharge floor.
There a- an existing_two-story exit enclosure connects_stair connects_ the story of exit cent story, the exit shall_stair shall_be permitted to be enclosed with 1-hour fire resistance on the story of exit discharge, provided that not less than 50 percent of the number and capacity exit discharge are independent of such enclosures. and Substantiation for Public Input vides some confusion as it refers to an enclosure that is not enclosed. to the permitted stair arrangement as an "exit enclosure"; exit enclosures have special protection ar whether the exit enclosure protections of 7.1.3.2.1 are intended to be applied on the discharge e only relieves the stair from compliance with enclosure requirement on the non-discharge floor; harge level level needs to be protected in accordance with 7.1.3.2.1 even though it is permitted to the non-discharge floor.
nd Substantiation for Public Input vides some confusion as it refers to an enclosure that is not enclosed. to the permitted stair arrangement as an "exit enclosure"; exit enclosures have special protection ar whether the exit enclosure protections of 7.1.3.2.1 are intended to be applied on the discharge e only relieves the stair from compliance with enclosure requirement on the non-discharge floor; harge level level needs to be protected in accordance with 7.1.3.2.1 even though it is permitted to the non-discharge floor.
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to the permitted stair arrangement as an "exit enclosure"; exit enclosures have special protection ar whether the exit enclosure protections of 7.1.3.2.1 are intended to be applied on the discharge e only relieves the stair from compliance with enclosure requirement on the non-discharge floor; harge level level needs to be protected in accordance with 7.1.3.2.1 even though it is permitted to the non-discharge floor.
of the code text speaks to a stair in an "existing building", not an "existing" stair (the commentary n is applicable to existing stairs) - this permits a new stair to comply with this provision in an exist to run counter to the intent of the code (per the commentary).
erification
tthew Shanks
ntgomery County
e Mar 12 13:57:10 EDT 2024





7.3.1.2* Occupant Load Factor.

The occupant load in any building or portion thereof shall be not less than the number of persons determined by dividing the floor area assigned to that use by the occupant load factor for that use as specified in Table 7.3.1.2, Figure 7.3.1.2(a), and Figure 7.3.1.2(b). Where both gross and net area figures are given for the same occupancy, calculations shall be made by applying the gross area figure to the gross area of the portion of the building devoted to the use for which the gross area figure is specified and by applying the net area figure to the net area of the portion of the building devoted to the building devoted to the use for which the net area figure is specified.

Table 7.3.1.2 Occupant Load Factor

Use	<u>ft² per person^a</u>	<u>m² per person^a</u>
Assembly Use	-	-
Concentrated use, without fixed seating	7 net	0.65 net
Less concentrated use, without fixed seating	15 net	1.4 net
Bench-type seating	1 person/18 linear in.	1 person/455 linear mm
Fixed seating	Use number of fixed seats <u>plus one</u> for each empty space intended for a wheelchair	Use number of fixed seats <u>plus one</u> for each empty space intended for a wheel chair
Waiting spaces	See 12.1.7.2 and 13.1.7.2.	See 12.1.7.2 and 13.1.7.2.
Kitchens	100	9.3
Library stack areas	100	9.3
Library reading rooms	50 net	4.6 net
Swimming pools	50 (water surface)	4.6 (water surface)
Swimming pool decks	30	2.8
Exercise rooms with equipment	50	4.6
Exercise rooms without equipment	15	1.4
Stages	15 net	1.4 net
Lighting and access catwalks, galleries, gridirons	100 net	9.3 net
Casinos and similar gaming areas	11	1
Skating rinks	50	4.6
-	_	_
Business Use (other than below)	150	14
Concentrated business use ^b	50	4.6
Airport traffic control tower observation levels	40	3.7
Collaboration rooms/spaces ≤450 ft ² (41.8 m ²) in area ^b	30	2.8
Collaboration rooms/spaces >450 ft ² (41.8 m ²) in area ^b	15	1.4
Day-Care Use	35 net	3.3 net
Detention and Correctional Use	120	11.1
Educational Use	_	_
Classrooms	20 net	1.9 net
Shops, laboratories, vocational rooms	50 net	4.6 net
Health Care Use	_	_
Inpatient treatment departments	240	22.3
Sleeping departments	120	11.1
Ambulatory health care	150	14
Industrial Use	_	-
General- and high-hazard industrial	100	9.3
Special-purpose industrial	MP	MP
Mercantile Use	_	-
Sales area on street floor ^{c,d}	30	2.8
Sales area on two or more street floors ^d	40	3.7
Sales area on floor below street floor ^d	30	2.8
Use	<u>ft² per person^a</u>	<u>m² per person^a</u>
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Sales area on floors above street floor ^d	60	5.6
Floors or portions of floors used only for offices	See business use.	See business use.
Floors or portions of floors used only for storage, receiving, and shipping, and not open to general public	300	27.9
Mall structures ^e	Per factors applicable to use of space ^f	-
Residential Use	-	-
Hotels and dormitories	200	18.6
Apartment buildings	200	18.6
Board and care, large	200	18.6
Storage Use	-	-
In storage occupancies	MP	MP
In mercantile occupancies	300	27.9
In other than storage and mercantile occupancies	500	46.5

MP: The occupant load is the maximum probable number of occupants present at any time.

^aAll factors are expressed in gross area unless marked "net."

^bSee A.7.3.1.2.

^CFor determining occupant load in mercantile occupancies where, due to differences in the finished ground level of streets on different sides, two or more floors directly accessible from streets (not including alleys or similar back streets) exist, each such floor is permitted to be considered a street floor. The occupant load factor is one person for each 40 ft² (3.7 m²) of gross floor area of sales space.

^dFor determining occupant load in mercantile occupancies with no street floor, as defined in 3.3.292, but with access directly from the street by stairs or escalators, the floor at the point of entrance to the mercantile occupancy is considered the street floor.

^eFor any food court or other assembly use areas located in the mall concourse that are not included as a portion of the gross leasable area of the mall structure, the occupant load is calculated based on the occupant load factor for that use as specified in Table 7.3.1.2. The remaining mall concourse area is not required to be assigned an occupant load.

^fThe portions of the mall concourse not used as gross leasable area are not required to be assessed an occupant load based on Table 7.3.1.2. However, means of egress from a mall concourse are required to be provided for an occupant load determined by dividing the gross leasable area of the mall building (not including anchor buildings) by the appropriate lowest whole number occupant load factor from Figure 7.3.1.2(a) or Figure 7.3.1.2(b).

Each individual tenant space is required to have means of egress to the outside or to the mall concourse based on occupant loads calculated by using the appropriate occupant load factor from Table 7.3.1.2.

Each individual anchor store is required to have means of egress independent of the mall concourse.

Figure 7.3.1.2(a) Mall Structure Occupant Load Factors (US Customary Units).









7.3.1.2* Occupant Load Factor.

The occupant load in any building or portion thereof shall be not less than the number of persons determined by dividing the floor area assigned to that use by the occupant load factor for that use as specified in Table 7.3.1.2, Figure 7.3.1.2(a), and Figure 7.3.1.2(b). Where both gross and net area figures are given for the same occupancy, calculations shall be made by applying the gross area figure to the gross area of the portion of the building devoted to the use for which the gross area figure is specified and by applying the net area figure to the net area of the portion of the building devoted to the building devoted to the use for which the net area figure is specified.

Table 7.3.1.2 Occupant Load Factor

<u>Use</u>	<u>ft² per person^a</u>	<u>m² per person^a</u>	
Assembly Use	-	-	
Concentrated use, without fixed seating	7 net	0.65 net	
Less concentrated use, without fixed seating	15 net	1.4 net	
Bench-type seating	1 person/18 linear in.	1 person/455 linear mm	
Fixed seating	Use number of fixed seats	Use number of fixed seats	
Waiting spaces	See 12.1.7.2 and 13.1.7.2.	See 12.1.7.2 and 13.1.7.2.	
Kitchens	100	9.3	
Library stack areas	100	9.3	
Library reading rooms	50 net	4.6 net	
Swimming pools	50 (water surface)	4.6 (water surface)	
Swimming pool decks	30	2.8	
Exercise rooms with equipment	50	4.6	
Exercise rooms without equipment	15	1.4	
Stages	15 net	1.4 net	
Lighting and access catwalks, galleries, gridirons	100 net	9.3 net	
Casinos and similar gaming areas	11	1	
Skating rinks	50	4.6	
-	-	-	
Business Use (other than below)	150	14	
Concentrated business use ^b	50	4.6	
Airport traffic control tower observation levels	40	3.7	
Collaboration rooms/spaces ≤450 ft ² (41.8 m ²) in area ^b	30	2.8	
Collaboration rooms/spaces >450 ft ² (41.8 m ²) in area ^b	15	1.4	
Day-Care Use	35 net	3.3 net	
Detention and Correctional Use	120	11.1	
Educational Use	-	-	
Classrooms	20 net	1.9 net	
Shops, laboratories, vocational rooms	50 net	4.6 net	
Health Care Use	-	-	
Inpatient treatment departments	240	22.3	
Sleeping departments	120	11.1	
Ambulatory health care	150	14	
Industrial Use	-	-	
General- and high-hazard industrial	100	9.3	
Special-purpose industrial	MP	MP	
Mercantile Use	-	-	
Sales area on street floor ^{c,d}	30	2.8	
Sales area on two or more street floors ^d	40	3.7	
Sales area on floor below street floor ^d	30	2.8	
Sales area on floors above street floor ^d - <u>and sales areas for</u> <u>Class A mercantile occupancies on or below street floor</u>	60	5.6	
Floors or portions of floors used only for offices	See business use.	See business use.	

<u>Use</u>	<u>ft² per person^a</u>	<u>m² per person^a</u>
Floors or portions of floors used only for storage, receiving, and shipping, and not open to general public	d 300	27.9
Mall structures ^e	Per factors applicable to use of space ^f	-
Residential Use	_	-
Hotels and dormitories	200	18.6
Apartment buildings	200	18.6
Board and care, large	200	18.6
Storage Use	-	-
In storage occupancies	MP	MP
In mercantile occupancies	300	27.9
In other than storage and mercantile occupancies	500	46.5

MP: The occupant load is the maximum probable number of occupants present at any time.

^aAll factors are expressed in gross area unless marked "net."

^bSee A.7.3.1.2.

^CFor determining occupant load in mercantile occupancies where, due to differences in the finished ground level of streets on different sides, two or more floors directly accessible from streets (not including alleys or similar back streets) exist, each such floor is permitted to be considered a street floor. The occupant load factor is one person for each 40 ft² (3.7 m²) of gross floor area of sales space.

^dFor determining occupant load in mercantile occupancies with no street floor, as defined in 3.3.292, but with access directly from the street by stairs or escalators, the floor at the point of entrance to the mercantile occupancy is considered the street floor.

^eFor any food court or other assembly use areas located in the mall concourse that are not included as a portion of the gross leasable area of the mall structure, the occupant load is calculated based on the occupant load factor for that use as specified in Table 7.3.1.2. The remaining mall concourse area is not required to be assigned an occupant load.

^fThe portions of the mall concourse not used as gross leasable area are not required to be assessed an occupant load based on Table 7.3.1.2. However, means of egress from a mall concourse are required to be provided for an occupant load determined by dividing the gross leasable area of the mall building (not including anchor buildings) by the appropriate lowest whole number occupant load factor from Figure 7.3.1.2(a) or Figure 7.3.1.2(b).

Each individual tenant space is required to have means of egress to the outside or to the mall concourse based on occupant loads calculated by using the appropriate occupant load factor from Table 7.3.1.2.

Each individual anchor store is required to have means of egress independent of the mall concourse.

Figure 7.3.1.2(a) Mall Structure Occupant Load Factors (US Customary Units).



Figure 7.3.1.2(b) Mall Structure Occupant Load Factors (SI Units).



Statement of Problem and Substantiation for Public Input

Big box retail will rarely have the occupant load of 60 square feet per person even on Black Friday. As an example, a Walmart Supercenter of approximately 195,000 square feet has a retail occupant load of approximately 4500 when calculated at 30 square feet per person based on the available area used for the retail sales portion of the building. The likelihood of a store this size having 4500 people in it even on Black Friday is negligible. A more realistic occupant load for a store this size would be half of that, or 60 square feet per person.

Class B and C mercantile occupancies would be excluded from this occupant load factor as the reality of having a larger occupant load in a smaller retail space will happen. The Class A mercantile occupancies would have the area to allow for the larger occupant load factor and not overwhelm the egress system or approach the calculated occupant load with a 30 square foot per person factor.

Submitter Information Verification

Submitter Full Name	e: Eirene Knott
Organization:	BRR Architecture
Affiliation:	N/A
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu Feb 15 10:08:05 EST 2024
Committee:	SAF-MEA



Add "Museums" in Table 7.3.1.2 with load factors of 100 ft 2 net per person.

Table 7.3.1.2 * Occupant Load Factor.

The occupant load in any building or portion thereof shall be not less than the number of persons determined by dividing the floor area assigned to that use by the occupant load factor for that use as specified in Table 7.3.1.2, Figure 7.3.1.2(a), and Figure 7.3.1.2(b). Where both gross and net area figures are given for the same occupancy, calculations shall be made by applying the gross area figure to the gross area of the portion of the building devoted to the use for which the gross area figure is specified and by applying the net area figure to the net area of the portion of the building devoted to the building devoted to the use for which the net area figure is specified.

Table 7.3.1.2 Occupant Load Factor

<u>Use</u>	<u>ft² per person^a</u>	<u>m² per person^a</u>	
Assembly Use	-	-	
Concentrated use, without fixed seating	7 net	0.65 net	
Less concentrated use, without fixed seating	15 net	1.4 net	
Bench-type seating	1 person/18 linear in.	1 person/455 linear mm	
Fixed seating	Use number of fixed seats	Use number of fixed seats	
Waiting spaces	See 12.1.7.2 and 13.1.7.2.	See 12.1.7.2 and 13.1.7.2.	
Kitchens	100	9.3	
Library stack areas	100	9.3	
Library reading rooms	50 net	4.6 net	
Swimming pools	50 (water surface)	4.6 (water surface)	
Swimming pool decks	30	2.8	
Exercise rooms with equipment	50	4.6	
Exercise rooms without equipment	15	1.4	
Stages	15 net	1.4 net	
Lighting and access catwalks, galleries, gridirons	100 net	9.3 net	
Casinos and similar gaming areas	11	1	
Skating rinks	50	4.6	
-	-	-	
Business Use (other than below)	150	14	
Concentrated business use ^b	50	4.6	
Airport traffic control tower observation levels	40	3.7	
Collaboration rooms/spaces ≤450 ft ² (41.8 m ²) in area ^b	30	2.8	
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Detention and Correctional Use	120	11.1	
Educational Use	-	-	
Classrooms	20 net	1.9 net	
Shops, laboratories, vocational rooms	50 net	4.6 net	
Health Care Use	-	-	
Inpatient treatment departments	240	22.3	
Sleeping departments	120	11.1	
Ambulatory health care	150	14	
Industrial Use	-	-	
General- and high-hazard industrial	100	9.3	
Special-purpose industrial	MP	MP	
Mercantile Use	-	-	
Sales area on street floor ^{c,d}	30	2.8	
Sales area on two or more street floors ^d	40	3.7	
Sales area on floor below street floor ^d	30	2.8	
Sales area on floors above street floor ^d	60	5.6	
Floors or portions of floors used only for offices	See business use.	See business use.	

Use	<u>ft² per person^a</u>	<u>m² per person^a</u>
Floors or portions of floors used only for storage, receiving, an shipping, and not open to general public	d 300	27.9
Mall structures ^e	Per factors applicable to use of space ^f	-
Residential Use	-	-
Hotels and dormitories	200	18.6
Apartment buildings	200	18.6
Board and care, large	200	18.6
Storage Use	-	-
In storage occupancies	MP	MP
In mercantile occupancies	300	27.9
In other than storage and mercantile occupancies	500	46.5

MP: The occupant load is the maximum probable number of occupants present at any time.

^aAll factors are expressed in gross area unless marked "net."

^bSee A.7.3.1.2.

^CFor determining occupant load in mercantile occupancies where, due to differences in the finished ground level of streets on different sides, two or more floors directly accessible from streets (not including alleys or similar back streets) exist, each such floor is permitted to be considered a street floor. The occupant load factor is one person for each 40 ft² (3.7 m²) of gross floor area of sales space.

^dFor determining occupant load in mercantile occupancies with no street floor, as defined in 3.3.292, but with access directly from the street by stairs or escalators, the floor at the point of entrance to the mercantile occupancy is considered the street floor.

^eFor any food court or other assembly use areas located in the mall concourse that are not included as a portion of the gross leasable area of the mall structure, the occupant load is calculated based on the occupant load factor for that use as specified in Table 7.3.1.2. The remaining mall concourse area is not required to be assigned an occupant load.

^fThe portions of the mall concourse not used as gross leasable area are not required to be assessed an occupant load based on Table 7.3.1.2. However, means of egress from a mall concourse are required to be provided for an occupant load determined by dividing the gross leasable area of the mall building (not including anchor buildings) by the appropriate lowest whole number occupant load factor from Figure 7.3.1.2(a) or Figure 7.3.1.2(b).

Each individual tenant space is required to have means of egress to the outside or to the mall concourse based on occupant loads calculated by using the appropriate occupant load factor from Table 7.3.1.2.

Each individual anchor store is required to have means of egress independent of the mall concourse.

Figure 7.3.1.2(a) Mall Structure Occupant Load Factors (US Customary Units).



Figure 7.3.1.2(b) Mall Structure Occupant Load Factors (SI Units).



Public Input for the next edition (Annual)

Public Input Closing date: June 4, 2024 Questions - 800-344-3555

Subject of Input: NFPA 101 <u>Table 7.3.21.2 Occupancy Load Factors</u>

Issues:

<u>6.1.2.1 Definition – Assembly Occupancy</u> does not clearly state deferred occupancy classification to Business Occupancy if the Occupancy Load is under 50 persons.

Table 7.3.1.2 does not always portray expected population of facilities accurately, or in some cases, omits listing some occupancies altogether. Such is the case for Museums. Museums are classified as Assembly Occupancies but are not addressed in the Occupancy Load Calculation Table.

Effects of these omissions:

Referencing other Codes and Standards to determine a reasonable population density we find that Museums have been determined to have a density of less than 30sf Net/person. Currently there are efforts to reset that density at as low as 100sf Net /person which is a reasonable load factor well researched and documented. However, without an established density set forth within the body of the LIFE SAFETY CODE some AHJ have indicated it is not within their authority to look outside the CODE for justification of occupancy loads. As a result, Museums have been given density loads as high as 15sf Net/person.

Small wood framed structures Historically Significant structures that are used as part of Museum venues and having public spaces less than 1500sf Net, can be greatly affected by these obviously incorrect, heavier density loadings. An Assembly classification does not allow wood framed structures to have occupancy below grade without in installation of an automatic fire suppression system. These systems, which in many cases are either not available due to lack of required water volumes, or, if such installations were to be implemented would have a negative impact on the historic nature and character of the facility. It is also highly questionable whether such installations would provide any significant increase in life safety for the public based on availability of short exit ways. Similar issues arise with requirements for enclosed exit shafts and unduly wide exit widths required for higher populations. Even an attempt at installation of a simple Handclapped Chair Lift in association with an exit way has been thwarted by Assembly Occupancy restrictions in a small, open plan, garden level exhibition hall.

INPUT:

Modify **Table 7.3.1.2** to better reflect population densities expected in Museums and Libraries. In the case of smaller, historic, or facilities displaying sensitive or fragile elements, means of density control are typically and easily obtained by controlling access to the facility and numbers of individuals in guided tours. Museums and Libraries Stacks should have similar load factors of densities below 100sf Net/person.

Another option is to consider simply designating Museums and Libraries as Business Occupancies.

REFERENCES

NFPA 101

6.1.2.1* Definition - Assembly Occupancy

An Occupancy (1) used for a gathering of <u>50 or more persons</u> for deliberation, worship, entertainment, eating, drinking, amusement. awaiting transportation, or similar uses, or (2) used as a <u>special amusement</u> building, regardless of occupancy load.

Table 7.3.1.2 Occupancy Load Factor

Assembly Use

Although numerous **Assembly Uses** and their respective load factors are specifically listed, other **common uses are NOT represented**. This leads to speculation and most times the extremely conservative load factors demanded by AHJ.

REQUESTED MODIFICATIONS:

6.1.2.1 Definitions – Assembly Occupancy

ADD: Occupancy loads calculated to be less than 50 persons shall be classified as Business Occupancies and retain their Load factors as determined as Assemblies in accordance with Table 7.3.1.2

Table 7.3.1.2 Occupancy Load Factor Assembly Use

INCLUDE: Museums with a Load Factor of **100sf NET/person**.

A Case in Point:

Small, Historically Significate, Community Center recently re-purposed as a free standing, exhibition gallery as part of a museum complex. Total <u>Net</u> Public Space is between 1200 sf and 1300 sf. The gallery is a wood frame structure that has been moved onto a pour concrete lower level reflective of the former foundation having its floor level only six and a half foot below grade thereby providing ample daylighting to the lower level. The nature of the facility and the fragility of the displays require that it be not only highly monitored, but that very limited and control access to limited and strictly enforced.

The Project Concept:

- Provide a second, handicapped accessible, exit serving the Gallery and Garden Levels of an existing, small Historic Community Center being converted to an Exhibit Hall for highlighting the historic uses of the facility and of the ethnic community that built it.
- New addition shall provide a simplified, circulation and "Way Finding" path through both the Gallery and Garden Levels of the facility as well a secondary means of egress from both levels.
- All public areas are to be open plan with full visibility of the Mezzanine stairways.
- The facility is part of a museum which includes numerous Exhibition Structures, Vast Outdoors Displays and numerous Visitor Participation Opportunities.
- The historic character and original operations of the facility itself are to be major features of the hall.
- The Museum complex is sited on over 250 acres. The average visitation rate is 23 visitors daily.
- Only guided tours shall be permitted due to the delicacy and historic nature of the exhibits. Tours are to be limited to 25 individuals. Additional docents will be added as disabled visitors require.
- All exterior doors of the facility provide limited access from the exterior and shall be provided with panic hardware internally.
- Monitoring is already being provided, both internally and on the exterior, 24/7 via video cameras and an extensive ION detection system. *Site is manned 24/7 by a Caretaker in-residence on the Museum grounds.*
- Doors of all ancillary spaces shall be restricted from public access and shall be treated in a manner as to minimize their presents. (*Zero Frame Doors*)
- The farthest exit travel distance shall be less than 60 feet.
- Display cases, dioramas, antiquities, and memorabilia will occupy approximately 50 percent of the areas to be accessible to the public.

The Dilemma:

- Because there was no designated load factor for a museum listed in <u>Table 7.3.1.2</u>, the Architect referenced several Building Codes in his permit submittals that established load factors for museums at 30sf Net/person and thus, because of the limited population of the facility, he felt the facility would justifiably revert to the classification of a Business Occupancy. The actual load is much lower due to the Museums insistence that the public population of the structure be limited to no more than 25 persons and they are always accompanied by an appropriate number of docents. However, the AHJ used <u>15 SF net/person</u> as indicated for an Assembly Occupancy of "Less concentrated use, without fixed seating". Hence the **design was rejected by the AHJ**.
- 2. With a classification of Assembly, the wood frame structure, Type V, precluded the use of the lower level, which is only 6 feet below grade and has accessible windows, without the installation of an **Automatic Fire Suppression System** for the entire facility.
- 3. The exit stairs at the two extremities of the facility would be required to be housed within **"Protected Shafts"**.
- 4. The proposed installation of a Handicapped Chair Lift, the initial reason for the facility upgrade and source of a major portion of the project funding, was not to be permitted within one of the Exit Stair Shaft and would be required to be housed in a separate "Elevator Shaft" not associated with the Exit Stairs.

Architect's issues:

- 1. A less dense occupancy load of 30 SF net/person would have put the occupancy load well below 50 persons, thus putting the facility into the default classification as a Business Occupancy as the Architect had reason to believe would be the case.
- 2. Well documented "Fire Science" has led the vast majority of Code Development and Implementation agencies** to set the occupancy load for **Museums** at densities levels of 30 Sf net/person and are currently considering lessening the density to 100 SF Net/person. These less dense loadings approximate those of Libraries and Library Stacks in <u>Table 7.3.1.2</u> of the Life Safety Code.
- 3. The Business Occupancy classification better reflects the Fire and Life Safety issues present in Museums. Using Chapter 38/39 Business Occupancy, the guidelines presented there are nearly identical to those for museums in the major Model Building Codes. **
 - ** ICC, IBC, NBC, UBC, Southern, BOCA, ...etc.

As the "Case in Point" Project now stands:

- The Architect has advised his clients to postpone any drastic measures that would degrade the character of the Hall and hamper any future possibilities for developing the facility to its full potential.
- Client has had a temporary "Fire Wall" equipped with a "Fire Door" installed across the single stairway leading to the lower level via an exit mezzanine and limiting the occupancy of the Garden Level to that of "Storage."
- All exterior doors have always been provided with panic hardware.

Submitted by;

Jack Green, Architect Architectural Cadre' LLC 1612 South 99th Street Omaha, Nebraska 68124

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7.3.1.2* Occupant Load Factor.

The occupant load in any building or portion thereof shall be not less than the number of persons determined by dividing the floor area assigned to that use by the occupant load factor for that use as specified in Table 7.3.1.2, Figure 7.3.1.2(a), and Figure 7.3.1.2(b). Where both gross and net area figures are given for the same occupancy, calculations shall be made by applying the gross area figure to the gross area of the portion of the building devoted to the use for which the gross area figure is specified and by applying the net area figure to the net area of the portion of the building devoted to the building devoted to the use for which the net area figure is specified.

Table 7.3.1.2 Occupant Load Factor

<u>Use</u>	<u>ft² per person^a</u>	<u>m² per person^a</u>	
Assembly Use	-	-	
Concentrated use, without fixed seating	7 net	0.65 net	
Less concentrated use, without fixed seating	15 net	1.4 net	
Bench-type seating	1 person/18 linear in.	1 person/455 linear mm	
Fixed seating	Use number of fixed seats	Use number of fixed seats	
Waiting spaces	See 12.1.7.2 and 13.1.7.2.	See 12.1.7.2 and 13.1.7.2.	
Kitchens	100	9.3	
Library stack areas	100	9.3	
Library reading rooms	50 net	4.6 net	
Swimming pools	50 (water surface)	4.6 (water surface)	
Swimming pool decks	30	2.8	
Exercise rooms with equipment	50	4.6	
Exercise rooms without equipment	15	1.4	
Stages	15 net	1.4 net	
Lighting and access catwalks, galleries, gridirons	100 net	9.3 net	
Casinos and similar gaming areas	11	1	
Skating rinks	50	4.6	
-	-	-	
Business Use (other than below)	150	14	
Concentrated business use ^b	50	4.6	
Airport traffic control tower observation levels	40	3.7	
Collaboration rooms/spaces ≤450 ft ² (41.8 m ²) in area ^b	30	2.8	
Collaboration rooms/spaces >450 ft ² (41.8 m ²) in area ^b	15	1.4	
Day-Care Use	35 net	3.3 net	
Detention and Correctional Use	120	11.1	
Educational Use	-	-	
Classrooms	20 net	1.9 net	
Shops, laboratories, vocational rooms	50 net	4.6 net	
Health Care Use	-	-	
Inpatient treatment departments	240	22.3	
Sleeping departments	120	11.1	
Ambulatory health care	150	14	
Industrial Use	-	-	
General- and high-hazard industrial	100	9.3	
Special-purpose industrial	MP	MP	
Mercantile Use	-	-	
Sales area- on street floor ^{c,d}	30	2.8	
Sales area on two or more street floors ^d	40	3.7	
Sales area on floor below street floor ^d	30	2.8	
Sales area on floors above street floor ^d	60	5.6	
Floors or portions of floors used only for offices	See business use.	See business use.	

<u>Use</u>	<u>ft² per person^a</u>	<u>m² per person^a</u>
Floors or portions of floors used only for storage, receiving, a shipping, and not open to general public	nd 300	27.9
Mall structures ^e	Per factors applicable to use of space ^f	-
Residential Use	-	-
Hotels and dormitories	200	18.6
Apartment buildings	200	18.6
Board and care, large	200	18.6
Storage Use	-	-
In storage occupancies	MP	MP
In mercantile occupancies	300	27.9
In other than storage and mercantile occupancies	500	46.5

MP: The occupant load is the maximum probable number of occupants present at any time.

^aAll factors are expressed in gross area unless marked "net."

^bSee A.7.3.1.2.

^C For determining occupant load in mercantile occupancies where, due to differences in the finished ground level of streets on different sides, two or more floors directly accessible from streets (not including alleys or similar back streets) exist, each such floor is permitted to be considered a street floor. The occupant load factor is one person for each 40 ft ² - (3.7 m²) of gross floor area of sales space.

^d For determining occupant load in mercantile occupancies with no street floor, as defined in 3.3.292, but with access directly from the street by stairs or escalators, the floor at the point of entrance to the mercantile occupancy is considered the street floor.

^e For <u>c</u> For any food court or other assembly use areas located in the mall concourse that are not included as a portion of the gross leasable area of the mall structure, the occupant load is calculated based on the occupant load factor for that use as specified in Table 7.3.1.2. The remaining mall concourse area is not required to be assigned an occupant load.

 $f \underline{d}$ The portions of the mall concourse not used as gross leasable area are not required to be assessed an occupant load based on Table 7.3.1.2. However, means of egress from a mall concourse are required to be provided for an occupant load determined by dividing the gross leasable area of the mall building (not including anchor buildings) by the appropriate lowest whole number occupant load factor from Figure 7.3.1.2(a) or Figure 7.3.1.2(b).

Each individual tenant space is required to have means of egress to the outside or to the mall concourse based on occupant loads calculated by using the appropriate occupant load factor from Table 7.3.1.2.

Each individual anchor store is required to have means of egress independent of the mall concourse.

Figure 7.3.1.2(a) Mall Structure Occupant Load Factors (US Customary Units).



Figure 7.3.1.2(b) Mall Structure Occupant Load Factors (SI Units).





6. 646.19 – modular data centers

Submitter Information Verification

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Submittal Date:	Mon Jun 03 20:27:22 EDT 2024
Committee:	SAF-MEA

NFPA 101-2027 Doors of Spaces About Electrical Equipment Proposal Section 7.4.2 Revised June 3, 2024 John Woestman, BHMA

7.4.2 Spaces About Electrical Equipment.

7.4.2.1 1000 Volts, Nominal, or Less.

7.4.2.1.1 Number of Means of Egress.

The minimum number of means of egress for working space about electrical equipment, other than existing electrical equipment, shall be in accordance with 110.26(C) of <u>NFPA 70</u>.

7.4.2.1.2 Door Unlatching and Direction of Door Swing.

The method of door unlatching and direction of door swing for working space about electrical equipment, other than existing electrical equipment, shall be in accordance with <u>the following sections 110.26(C)(3)</u> of *NFPA 70*.

1.	110.26(C)(3)
2.	450.43(C)
3.	480.10(E)
4.	646.19

7.4.2.2 Over 1000 Volts, Nominal.

7.4.2.2.1 Number of Means of Egress.

The minimum number of means of egress for working space about electrical equipment, other than existing electrical equipment, shall be in accordance with 110.33(A) of *NFPA 70*.

7.4.2.2.2 Door Unlatching and Direction of Door Swing.

The method of door unlatching and direction of door swing for working space about electrical equipment, other than existing electrical equipment, shall be in accordance with the following sections 110.33(A)(3) of *NFPA 70*.

1.	110.31(A)(4)
2.	110.33(A)(3)
3.	450.43(C)
4.	480.10(E)
5.	646.19

A.7.2.1.4.2 See 7.4.2.1.2 and 7.4.2.2.2 for door swing direction requirements for working space about electrical equipment.

Reason:

This proposal is intended to be editorial and to more closely mesh NFPA 101 with the requirements in NFPA 70 National Electrical Code.

These sections of NFPA 70 have requirements regarding the direction doors are required to swing:

- 1. 110.26(C)(3) electrical equipment rooms, enclosures, or vaults for 1000 volts or less
- 2. 110.31(A)(4) electrical equipment vaults for more than 1000 volts
- 3. 110.33(A)(3) electrical equipment rooms or enclosures for more than 1000 volts
- 4. 450.43(C) transformer vaults
- 5. 480.10(E) batteries and energy storage systems
- 6. 646.19 modular data centers

TIT	
<u>Iyp</u>	e your content hereAdd new section 7.17 Accessible Means of Egress
7.1	<u>7 Accessible Means of Egress</u> .
7.1 tha	n two accessible means of egress, unless otherwise provided in 7.17.1 through 7.17.1.4.
<u>7.17</u> refu	7.1.1 Access within the allowable travel distance shall be provided to not less than one accessible area of age or one accessible exit providing an accessible route to an exit discharge.
7.17 hav	7.1.2 A single accessible means of egress shall be permitted from buildings or areas of buildings permitted to re a single means of egress .
7.17	7.1.3 Accessible means of egress shall not be required where permitted by Chapters 11 through 43.
7.17 per	7.1.4 Exit access travel along the accessible means of egress shall be permitted to be common for the distances mitted as common paths of travel.
7.17	7.2 Accessible means of egress shall consist of one or more of the following components:
(1)	<u>Accessible routes</u>
(2)	Doors in accordance with 7.2.2 and 7.17.4
(3)	Smokeproof enclosures in accordance with 7.2.3
(4)	Horizontal exits complying with 7.2.4
(5)	Exits in accordance with 7.1.3.
(6)	Elevators complying with 7.17.8.
(7)	Stairs in accordance with 7.17.7
(8)	Ramps in accordance with 7.2.5.
(9)	Areas of refuge in accordance with 7.17.10
(10)) <u>Platform lifts complying with 7.17.11.</u>
(11)) Exterior areas of assisted rescue complying with 7.17.12
7.17 con	7.4 Accessible routes, stairs, doors, ramps, elevators, and platform lifts in accordance with 7.17.2 shall form to ICC A117.1, Accessible and Usable Buildings and Facilities.
7.17 pub	7.5 Each required accessible means of egress shall be continuous from each accessible occupied area to a olic way.
7.17	7.6 Accessible Exits. Items (a) through (f) of 7.17.2 shall be permitted as accessible exits.
7.17	7.7 Stairs
<u>7.17</u> Sta	7.7.1 Stairs connecting two stories or connecting mezzanines shall be permitted as accessible means of egress. irs connecting two levels within the same story are not permitted as accessible means of egress.
7.17 acce	7.7.2 Where an exit stair is used as a component of an accessible means of egress, it shall comply with be essed from an area of refuge complying with 7.17.10.
7.17	7.8 Elevators
7.17 less	7.8.1 Accessible stories that are four or more stories above or below a story of exit discharge shall have not s than one elevator complying with 7.17.8.
$\frac{7.17}{7.2}$	7.8.2 To be considered part of an accessible means of egress, an elevator shall be in accordance with 12.2.4.
$\frac{7.17}{7.17}$	7.8.3* Where an elevator provides access from an area of refuge to a public way that is in accordance with 7.10, all of the following criteria shall be met:
<u>(1) '</u> Saf	The elevator shall be approved for fire fighters' emergency operations as provided in ASME A17.1/CSA B44, ety Code for Elevators and Escalators.
<u>(2) '</u> the	<u>The power supply shall be protected against interruption from fire occurring within the building but outside</u> area of refuge.
<u>(3) '</u> acco	<u>The elevator shall be located in a shaft system meeting the requirements for smokeproof enclosures in</u> ordance with 7.2.3, unless otherwise provided in 7.17.8.4.1, 7.17.8.4.2, and 7.17.8.4.3.
7.17	7.8.4.1 The smokeproof enclosure shall not be required in buildings protected throughout by an approved,

7.17.8.4.2 The smokeproof enclosure shall not be required for areas of refuge that are more than 1000 ft2 (93 m2) and that are created by a horizontal exit meeting the requirements of 7.2.4.

7.17.8.4.3 The smokeproof enclosure shall not be required for elevators complying with 7.17.10.3.

7.17.8.4.5 The area of refuge shall be provided with a two-way communication system for communication between the area of refuge and a central control point. The door opening to the stair enclosure or the elevator door and the associated portion of the area of refuge that the stair enclosure door opening or elevator door serves shall be identified by signage. (See 7.17.10.3.5)

7.17.8.4.6* Instructions for summoning assistance, via the two-way communication system, and written identification of the area of refuge location shall be posted adjacent to the two-way communication system.

7.17.9 To be considered part of an accessible means of egress, a smoke barrier in accordance with Section 8.5 with not less than a 1-hour fire resistance rating, or a horizontal exit in accordance with 7.2.4, shall discharge to an area of refuge in accordance with 7.2.12.

7.17.10 Accessible Areas of Refuge.

7.17.10.1 General.

7.17.10.1.1 An area of refuge used as part of a required accessible means of egress; consisting of a story in a building that is protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7; and having an accessible story that is one or more stories above or below a story of exit discharge shall meet the following criteria:

(1) Each elevator landing shall be provided with a two-way communication system for communication between the elevator landing and the fire command center or a central control point approved by the authority having jurisdiction.

(2) Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system, and written identification of the location shall be posted adjacent to the two-way communication system. Directions shall comply with ICC A117.1 Accessible and Usable Buildings and Facilities, for signs.

(3) The two-way communication system shall include both audible and visible signals.

7.17.10.1.2 An area of refuge used as part of a required accessible means of egress in other than a building that is protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7 shall meet both of the following criteria:

(1) The area of refuge shall meet the general requirements of Section 7.1.

(2) The area of refuge shall meet the requirements of 7.17.10.2 and 7.17.10.3.

7.17.10.2 Accessibility.

7.17.10.2.1 Required portions of an area of refuge shall be accessible from the space they serve by an accessible means of egress.

7.17.10.2.2 Required portions of an area of refuge shall have access to a public way via an exit or an elevator without requiring return to the building spaces through which travel to the area of refuge occurred.

7.17.10.2.3* Where the exit providing egress from an area of refuge to a public way that is in accordance with 7.17.10.2.2 includes stairs, the clear width of landings and stair flights, measured between handrails and at all points below handrail height, shall be not less than 48 in. (1220 mm), unless otherwise permitted by the following:

(1) The minimum 48 in. (1220 mm) clear width shall not be required where the area of refuge is separated from the remainder of the story by a horizontal exit meeting the requirements of 7.2.4. (See also 7.2.12.3.4.)

7.17.10.3 Details.

 $7.17.10.3.1^*$ Each area of refuge shall be sized to accommodate one wheelchair space of 30 in. \times 54 in. (760 mm \times 1372 mm) for every 200 occupants, or portion thereof, based on the occupant load served by the area of refuge. Such wheelchair spaces shall maintain the width of a means of egress to not less than that required for the occupant load served and to not less than 36 in. (915 mm).

7.17.10.3.2* For any area of refuge that does not exceed 1000 ft2 (93 m2), it shall be demonstrated by calculation or test that tenable conditions are maintained within the area of refuge for a period of 15 minutes when the exposing space on the other side of the separation creating the area of refuge is subjected to the maximum expected fire conditions.

7.17.10.3.3 Access to any designated wheelchair space in an area of refuge shall not pass through more than one adjoining wheelchair space.

7.17.10.3.4 New fire door assemblies serving an area of refuge shall be smoke leakage–rated in accordance with 8.2.2.4.

7.17.10.3.5 Signage

7.17.10.3.5.1 Each area of refuge shall be identified by a sign that reads as the follows:

AREA OF REFUGE

7.17.10.3.5.2 The sign required by 7.17.10.3.5.1 shall conform to the requirements of ICC A117.1, Accessible and Usable Buildings and Facilities, for such signage and shall display the international symbol of accessibility.

<u>Signs also shall be located as follows:</u>

(1) At each door opening providing access to the area of refuge

(2) At all exits not providing an accessible means of egress, as defined in 3.3.178.1

(3) Where necessary to indicate clearly the direction to an area of refuge

7.17.10.3.5.3 Signs required by 7.17.10.3.5.1 shall be illuminated as required for special signs in accordance with 7.10.8.1.

7.17.10.3.5.4 Tactile signage complying with ICC A117.1, Accessible and Usable Buildings and Facilities, shall be located at each door opening to an area of refuge.

7.17.11 Platform Lifts. Where platform lifts are permitted in an accessible route by the building code, platform lifts shall be permitted as accessible means of egress. Platform lifts shall be provided with standby power in accordance with 9.1.3.

7.17.12 Exterior Areas of Assisted Rescue. Exterior areas of assisted rescue shall be accessed by an accessible route and .

7.17.12.1 Two-way Communication System. Two-way communication shall be provided at exterior areas of assisted rescue for initiating communication with the fire command center or an alternative location approved by the fire department.

7.17.12.1.1 Design and Installation. A two-way communication system shall be provided at exterior areas of assisted rescue and shall include audible and visible signals. The system shall be designed and installed in accordance with the requirements of ICC A117.1, Accessible and Usable Buildings and Facilities.

7.17.12.2 Instructions. Instructions for summoning assistance, via the two-way communication system, and written identification of the exterior area of assisted rescue location shall be posted adjacent to the two-way communication system.

7.17.12.2.2 Signage for instructions to use the two-way communication shall comply with the requirements of ICC A117.1, Accessible and Usable Buildings and Facilities, for visual characters.

Statement of Problem and Substantiation for Public Input

The current accessible means of egress provisions are difficult to navigate and to apply. The current provisions do not state what elements are permitted as accessible means of egress. Furthermore, the provisions in 7.2.12 and 7.5.4 have duplicate or potentially conflict text. For example, 7.5.4.2 through 7.5.4.2.3 for exit separation of accessible means of egress are redundant to other sections in 7.5.

The proposed revision consolidates accessible means of egress provisions into one section. Although areas of refuge are egress components that have been included in 7.2, they are specifically accessible means of egress and thus belong in the dedicated section. The submitter acknowledges that the occupancy chapters have references to 7.2.12 for areas of refuge. The submitter endeavors for the occupancy chapters to reference 7.17 as amend as needed.

Related Public Inputs for This Document

Related Input
Public Input No. 288-NFPA 101-2024 [Section No. 3.3.25 [Excluding any Sub-Sections]]

Relationship Definition of area of refuge

Submitter Information Verification

Submitter Full Name: Ajay PrasadOrganization:Jensen HughesStreet Address:Image: City:City:Image: City:State:Image: City:State:Image: City:Submittal Date:Mon Jun 03 21:15:30 EDT 2024Committee:SAF-MEA

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Public Input	No. 136-NFPA 101-2024 [Section No. 7.7.1.1]
PA	
7.7.1.1	
Yards, courts, o topography and	pen spaces, or other portions of the exit discharge shall be of the required width and size <u>with easy</u> <u>sufficient ground stability</u> to provide all occupants with a safe access to a public way.
atement of Prob	em and Substantiation for Public Input
The problem is that reference. There s to an obstacle cour	if construction occurs in the exit discharge that makes soft soil or mud, there is not a specific code hould be basic guidance for topography for an exit discharge that does not have excessive incline similar se.
bmitter Informa	tion Verification
Submitter Full Nar	ne: Brian Codzandski
Organization:	[Not Specified]
Street Address:	
City	
ony.	
State:	
State: Zip:	
State: Zip: Submittal Date:	Fri May 24 14:37:44 EDT 2024

NFPA	No. 172-NFPA 101-2024 [Section No. 7.8.	1.1]
7.8.1.1*		
Illumination of m where required i designated stairs leading to an exi corridors, ramps	eans of egress shall be provided in accordance with n Chapters 11 through 43. For the purposes of this r s, aisles, <u>aisle accesways per section 12.2.5.7.10,</u> of t. For the purposes of this requirement, exit dischard , escalators, walkways, and passageways leading to	n Section 7.8 for every building and structure requirement, exit access shall include only corridors, ramps, escalators, and passageways ge shall include only designated stairs, aisles, o a public way.
Statement of Probl This change is for c Related Public Inpu	em and Substantiation for Public Input oordination with changes proposed to 12.2.5.7.10 S uts for This Document	teps in Aisle Accessways.
Public Input No. 17	Related Input 1-NFPA 101-2024 [New Section after 12.2.5.7]	Relationship require illumination in some aisle accessways
Submitter Informat	ion Verification	
Submitter Full Nan	ne: William Conner	
Organization:	Bill Conner Associates LLC	
Street Address:		
City: State:		
Zip:		
Submittal Date:	Thu May 30 15:05:53 EDT 2024	
Committee:	SAF-MEA	

	No. 190-NFPA 101-2024 [Section No. 7.15.1.2]
7.15.1.2	
The provisions of a formal or information of a formal or information occupancies and supervision in o	of Section 7.15 shall not apply where the limited or supervised use of elevators for evacuation is part formal evacuation strategy, including the relocation or evacuation of patients in health care d the relocation or evacuation of occupants with disabilities in that require a high level of ther occupancies.
atement of Probl	em and Substantiation for Public Input
use if someone rea	
Ibmitter Informat	uired a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.).
Ibmitter Informat	uired a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman
Ibmitter Informat	uired a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman National Elevator Industry, In
Submitter Informat Organization: Street Address:	uired a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman National Elevator Industry, In
bmitter Informat Submitter Full Nan Organization: Street Address: City:	uired a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman National Elevator Industry, In
Ibmitter Informat Submitter Full Nan Organization: Street Address: City: State:	urred a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman National Elevator Industry, In
Ibmitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip:	urred a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman National Elevator Industry, In
Ibmitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip: Submittal Date:	uired a high level of supervision (such as a nursing home, memory care facility, penal institution, etc.). ion Verification ne: Kevin Brinkman National Elevator Industry, In Fri May 31 17:38:36 EDT 2024

	No. 191-NEBA 101-2024 [Section No. 7 15 8 3]
	NO. 191-NFFA 101-2024 [Section No. 7.15.6.5]
7.15.8.3*	
Control signaling	g wiring and cables that do not serve Phase II emergency in-car service or Occupant Evacuation not be required to be protected.
Statement of Prob	lem and Substantiation for Public Input
	· · · · · · · · · · · · · · · · · · ·
Operation during a	It Evacuation Elevators are required to be protected to allow the elevators to run on Occupant Evacuation fire emergency.
Submitter Information	tion Verification
Submitter Full Nar	
oublinitier i un ivai	ne: Kevin Brinkman
Organization:	ne: Kevin Brinkman National Elevator Industry, In
Organization: Street Address:	ne: Kevin Brinkman National Elevator Industry, In
Organization: Street Address: City:	ne: Kevin Brinkman National Elevator Industry, In
Organization: Street Address: City: State:	ne: Kevin Brinkman National Elevator Industry, In
Organization: Street Address: City: State: Zip:	ne: Kevin Brinkman National Elevator Industry, In
Organization: Street Address: City: State: Zip: Submittal Date:	ne: Kevin Brinkman National Elevator Industry, In Fri May 31 17:43:27 EDT 2024

Public Input N	Io. 361-NFPA 101-2024 [New Section	n after A.3.3.177.1]
<u>A 3.3.180</u> an unobstructed w or unexpected pr	vay of travel should have a clear pathway with or orrusions.	direct line of sight without blind corners and obstacles
Statement of Proble	om and Substantiation for Public In	sut
Statement of Probi	en and Substantiation for Fubic inf	Jui
Features that stick o	out that meet ADA but cause a blind corner in t	he means of egress.
Deleted Deletis Issue	to fee This Decement	
Related Public Inpl	its for This Document	
	Related Input	Relationship
Public Input No. 36	0-NFPA 101-2024 [New Section after 3.3]	New Definition or Annex Options.
Public Input No. 36	0-NFPA 101-2024 [New Section after 3.3]	
Submitter Informat	ion Verification	
Submitter Full Nam	ie: Brian Codzandski	
Organization:	[Not Specified]	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Tue Jun 04 16:24:37 EDT 2024	
Committee:	SAF-MEA	
1		

Public Input I	No. 40-NFPA 101-2024 [Section No. A.7.1.3.2.1(9)(d)]
A 7 1 3 2 1/9)/d	
This provision w repeaters and si penetrate the fire being used as a	ill allow security cameras, public address systems, emergency communication systems, telephone milar life safety devices in the exit enclosure, and wiring and similar pathways for such devices, to barrier serving the exit enclosure. It is the intent of this provision to prevent the exit enclosure from vertical chase for building services.
I think this annex no	ote was intended to go with it (c) and not (d). The only intended change here is to move the annex note
I think this annex no the correct section.	ote was intended to go with it (c) and not (d). The only intended change here is to move the annex note
I think this annex no the correct section. Dmitter Informat	te was intended to go with it (c) and not (d). The only intended change here is to move the annex note ion Verification ne: Chad Beebe
I think this annex no the correct section. Dimitter Informat Submitter Full Nan Organization:	 bite was intended to go with it (c) and not (d). The only intended change here is to move the annex note cion Verification ne: Chad Beebe ASHE - AHA
I think this annex no the correct section. Omitter Informat Submitter Full Nan Organization: Street Address: City:	ote was intended to go with it (c) and not (d). The only intended change here is to move the annex note ion Verification ne: Chad Beebe ASHE - AHA
I think this annex no the correct section. Comitter Informat Submitter Full Nan Organization: Street Address: City: State:	ote was intended to go with it (c) and not (d). The only intended change here is to move the annex note ion Verification ne: Chad Beebe ASHE - AHA
I think this annex no the correct section. Comitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip:	ote was intended to go with it (c) and not (d). The only intended change here is to move the annex note cion Verification ne: Chad Beebe ASHE - AHA
I think this annex no the correct section. bmitter Informat Submitter Full Nan Organization: Street Address: City: State: Zip: Submittal Date:	te was intended to go with it (c) and not (d). The only intended change here is to move the annex note Sion Verification ne: Chad Beebe ASHE - AHA Tue Mar 19 02:06:27 EDT 2024

PA	
A 7.2.1.1.3.2	
When a building	is not considered occupied, per the criteria in 7.2.1.1.3.1, the _ability of occupants _ to egress may
be <u>of great cor</u>	nsequence _ Consider _ the skeleton crew of employees that may be in a business after hours. Also,
<u>consider</u> respo	onding emergency personnel, such as firefighters, who _may _need to egress a building
and it are	ex note for discusses the importance of occupants within a building not considered occupied being able
exit the building, an the building. bmitter Informat	ax note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification
exit the building, an the building. bmitter Informat Submitter Full Nar Organization:	as note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company
exit the building, an the building. bmitter Informat Submitter Full Nar Organization: Affiliation:	 ax note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
exit the building, an the building. bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address:	 ax note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
exit the building, an the building. bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City:	 ax note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
exit the building, an the building. bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State:	 ax note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
exit the building, an the building. bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	ax note for discusses the importance of occupants within a building not considered occupied being able id of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
exit the building, an the building. bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Anote for discusses the importance of occupants within a building not considered occupied being able and of responding emergency personnel to be able to egress through doors other than which they entered tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association Mon Jun 03 20:25:41 EDT 2024


The first paragraph in A.7.3.3.2 includes the following statement: "In essence, the effective width phenomenon recognizes that there is an edge or boundary effect at the sides of a ciruclation path..." The unspecified projections shown in Figure A.7.2.1.2.2(b) illustrate the boundary/edge effect as it pertains to door openings. Essentially, the boundary/edge effect accounts for the human body's shape; we're narrower at our feet and wider at our shoulders. Consider how we walk through doorways; we tend to walk through the center area of the openings. Our feet create a natural clearance between the side jambs of the door frames as we step through the openings; otherwise, we would kick the frames with our feet and our shoulders would rub against them. The boundary/edge effect accounts for this naturally occurring clearance. The boundary/edge effect applies only to where the measurement for the egress-capacity calculation of swinging doors is taken; it does not reduce the clear width dimension requirement for swinging doors. The Code requires swinging egress doors to provide the minimum clear width dimensions for the occupancies they serve. Projections into the required clear width dimensions below thirty-four (34) inches above the finished floor (AFF) are not permitted. Adopting one of the submitted figures (or a version thereof) to replace the existing figure clarifies the Code's intent. **Related Public Inputs for This Document Related Input** Relationship Public Input No. 218-NFPA 101-2024 [Section No. 7.2.1.2.2.1] **Submitter Information Verification** Submitter Full Name: Keith Pardoe Organization: Pardoe Consulting LLC Affiliation: The Safe Doors Save Lives Foundation, Inc. Street Address: City: State: Zip: **Submittal Date:** Mon Jun 03 11:02:24 EDT 2024 Committee: SAF-MEA





Allowance for projections (*aka boundary/edge effect*) up to 3-1/2 inches at both sides of the door opening, not more than 38 inches AFF, per NFPA 101.

Public Input	No. 272-NFPA 101-2024 [Section No. A.7.2.1.5.3.4]		
A.7.2.1.5.3.4			
Examples of de operation- motio	vices that, when used with a latch, can be arranged to require not more than one additional releasing on _ include dead bolts, security chains, swing door locks, and privacy door guards.		
A door with a th be permitted by operation) , and operation) .	A door with a thumb-turn operated dead bolt complying with 7.2.1.5.3.3 in addition to a lever operated latchset would be permitted by 7.2.1.5.3.7 as the dead bolt could be retracted with the first motion of rotating the thumb turn- (one operation), and then the latch bolt would be retracted by the second motion of rotating the lever handle- (other operation).		
A door with two lever to retract of position while th performed.	A door with two lever operated latchsets would not be permitted because the first operation <u>motion</u> of rotating the lever to retract one of the latch bolts would also require that lever to be manually maintained, or held, in the turned position while the second operation <u>motion</u> of the rotating the other lever to retract the second latch bolt is performed.		
Swing bar door permitted by thi	Swing bar door locks and privacy door guards are commonly used in hotel guest rooms and many other applications permitted by this section.		
<u>Colleges and universities are increasingly constructing</u> <u>dormitories with suite-style living arrangements</u> with a <u>shared space and individual bedrooms</u> <u>.NFPA</u> <u>101</u> <u>considers suite-style</u> <u>dormitories</u> <u>as</u> <u>apartment buildings</u> , <u>per</u> <u>28.1.1.4</u> : <u>Any dormitory divided into suites of rooms, with one or more bedrooms opening into a living room or study that has a door opening into a common corridor serving a number of suites, shall be classified as an apartment <u>building.</u></u>			
<u>study that has a building.</u>	a door opening into a common corridor serving a number of suites, shall be classified as an apartment		
Statement of Prob Revisions to the Ar	a door opening into a common corridor serving a number of suites, shall be classified as an apartment lem and Substantiation for Public Input nnex supporting proposed revisions to the mandatory text. uts for This Document		
Statement of Prob Revisions to the Ar Related Public Inp Public Input No. 2	Idea of opening into a common corridor serving a number of suites, shall be classified as an apartment Iem and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. uts for This Document Related Input 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4]		
Statement of Prob Revisions to the Ar Related Public Inp Public Input No. 2 Submitter Informa	a door opening into a common corridor serving a number of suites, shall be classified as an apartment lem and Substantiation for Public Input nnex supporting proposed revisions to the mandatory text. uts for This Document Related Input Relationship 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] tion Verification		
Submitter Full National	Iem and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. Its for This Document Related Input Related Input T1-NFPA 101-2024 [Section No. 7.2.1.5.3.4] Ition Verification		
Statement of Prob Revisions to the Ar Related Public Inp Public Input No. 2 Submitter Informa Submitter Full Nar Organization:	Idea of opening into a common corridor serving a number of suites, shall be classified as an apartment Iem and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. uts for This Document Related Input 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] tion Verification me: John Woestman Kellen Company		
Statement of Prob Revisions to the Ar Related Public Inp Public Input No. 2 Submitter Informa Submitter Full Nat Organization: Affiliation:	Iem and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. Uts for This Document Related Input Related Input C1-NFPA 101-2024 [Section No. 7.2.1.5.3.4] Relationship Tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association		
Statement of Prob Revisions to the Ar Related Public Inpu Public Input No. 2 Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address:	Image: a common corridor serving a number of suites, shall be classified as an apartment Image: a common corridor serving a number of suites, shall be classified as an apartment Image: a common corridor for Public Input Related Input Relationship 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association		
Statement of Prob Revisions to the Ar Related Public Inp Public Input No. 2 Submitter Informa Submitter Full Nar Organization: Affiliation: Street Address: City:	In a control opening into a common corridor serving a number of suites, shall be classified as an apartment Item and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. uts for This Document Related Input Relationship 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association		
Statement of Prob Revisions to the Ar Related Public Input Public Input No. 2 Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State:	Idea and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. It is for This Document <u>Related Input</u> 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association		
Statement of Prob Revisions to the Ar Related Public Input Public Input No. 2 Submitter Informa Submitter Full Nate Organization: Affiliation: Street Address: City: State: Zip:	Idea and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. It is for This Document <u>Related Input</u> 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] Tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association		
Statement of Prob Revisions to the Ar Related Public Inp Public Input No. 2 Submitter Informa Submitter Full Nat Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Idea or opening into a common corridor serving a number of suites, shall be classified as an apartment Item and Substantiation for Public Input Innex supporting proposed revisions to the mandatory text. uts for This Document Related Input Relationship 71-NFPA 101-2024 [Section No. 7.2.1.5.3.4] tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association		

Public Input N	o. 275-NFPA 101-2024 [New Section after A.7.2.1.5.10]		
NFPA			
A 7 2 1 5 11			
NFPA 101 require	es many doors to be self-latching or positive latching. Most of these doors are required to comply with		
NFPA 80, but not	all.		
In health care fac function as push/ hospital or nursin required to be fire pair of non-fire-ra closing (although have positive-late	In health care facilities, electric latch retraction hardware is often used on fire door assemblies to allow the doors to function as push/pull operation under normal conditions and latch automatically if there is a fire. When a door in a hospital or nursing home is considered a "corridor door" as addressed in the health care chapters, the door is not required to be fire rated but is required to have positive-latching hardware. A common example of this application is a pair of non-fire-rated doors serving as the entrance to a suite. These doors are typically self-closing or automatic-closing (although this is not technically required by NFPA 101 for corridor doors), and the code requires the doors to have positive-latching hardware.		
NFPA 80, in Sect door automaticall fire detector.	<u>NFPA 80, in Section 6.4.4.4.3, permits latching arrangements on fire doors that do not latch in the normal mode, if the door automatically becomes positively latched during a fire by means of a fail safe device activated by an automatic fire detector.</u>		
This section expli	icitly recognizes in NFPA 101 this option in NFPA 80, and permits this hardware to be used on non-		
fire-rated doors th	nat are required to have positive-latching hardware.		
Statement of Proble	em and Substantiation for Public Input		
Suggesting an Anne	x note for the section in the revisions in Public Input No. 274.		
Related Public Inpu	its for This Document		
Public Input No. 274	Related Input Relationship 4-NFPA 101-2024 [New Section after 7.2.1.5.10] Provide the section of the section after 7.2.1.5.10]		
Submitter Informati	on Verification		
Submitter Full Nam	e: John Woestman		
Organization:	Kellen Company		
Affiliation:	Builders Hardware Manufacturers Association		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Mon Jun 03 19:45:02 EDT 2024		
Committee:	SAF-MEA		

A.7.2.1.5.10	
Examples of dev thereof. <u>The ele</u> <u>7.2.1.6.4 is inter</u> <u>emergency situa</u> <u>occupancies are</u>	vices prohibited by this requirement include locks, padlocks, hasps, bars, chains, or combinations actrical locking system in 7.2.1.6.1 _is intended to _delay _free _egress . The locking system in nded to _control exit _access _from an elevator lobby _through tenant spaces except during an ation The locking systems identified in health care occupancies and board and care a _permitted _because of the clinical needs _or special needs _ of the occupants.
atement of Prob	lem and Substantiation for Public Input
7.2.1.6 has four spe door leaf for egress with either of the tw 18.2.2.2.5, and the	ecial locking arrangements. Only two of those locking arrangements permit preventing the free use of a s: 7.2.1.6.1 delayed egress, and 7.2.1.6.4 elevator lobby exit access door locking. In lockups in accordan vo identified sections are permitted to prevent the free use of a door leaf for egress. The locking system i locking systems in the subsequent identified sections, control egress and are variants of controlled egre
locking systems.	
lated Public Inp	uts for This Document
lated Public Inp	uts for This Document Related Input Relationship
Public Input No. 28	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10]
Public Input No. 28	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10]
Public Input No. 28 Public Input No. 28 Public Input No. 28	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 4
Iated Public Input Public Input No. 28 Public Input No. 28 bmitter Informat	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] tion Verification me: John Woestman
Public Input No. 28 Public Input No. 28 Public Input No. 28 bmitter Informat Submitter Full Nar Organization:	uts for This Document Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 56-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] tion Verification me: John Woestman Kellen Company
Public Input No. 28 Public Input No. 28 Public Input No. 28 bmitter Informat Submitter Full Nar Organization: Affiliation:	uts for This Document Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
Iated Public Input Public Input No. 28 Public Input No. 28 bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address:	uts for This Document Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] tion Verification me: John Woestman Kellen Company Kellen Company Builders Hardware Manufacturers Association Sections 7.2.1.5.10
Iated Public Input No. 28 Public Input No. 28 Public Input No. 28 bmitter Information Submitter Full Nar Organization: Affiliation: Street Address: City:	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 4000000000000000000000000000000000000
Public Input No. 28 Public Input No. 28 Public Input No. 28 bmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State:	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 4000000000000000000000000000000000000
Iated Public Input No. 28 Public Input No. 28 Public Input No. 28 bmitter Information: Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip:	Related Input Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] 4 tion Verification 4 me: John Woestman Kellen Company Builders Hardware Manufacturers Association 4
Public Input No. 28 Public Input No. 28 Public Input No. 28 Ibmitter Informat Submitter Full Nar Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Instrument Relationship 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] Sections 7.2.1.5.9, 7.2.1.5.10] 36-NFPA 101-2024 [Sections 7.2.1.5.9, 7.2.1.5.10] Section Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association Sections 7.2.1.5.10]

Public Input I	No. 76-NFPA 101-2024 [New Section a	fter A.7.2.1.6.2]
FPA		
A.7.2.1.6.2.1 T approach is ty contactless se that doesn't re event the sens A.7.2.1.6.2.1(3)	he sensor referenced in 7.2.1.6.2.1(1) and 7.2 pically mounted above the locked door in the nsor referenced in 7.2.1.6.2.1(3) is to provide quire physical contact and locate it within 60 or referenced in 7.2.1.6.1.2(1) and 7.2.1.6.2.1((d). A wave-to-open sensor is considered a c	.1.6.2.1(2) used to unlock the door upon occupant direction of egress. The purpose of the another option to the "PUSH TO EXIT" button inches of the door to unlock the doors in the 2) fails. ontactless sensor.
<u>A.7.2.1.6.2.1(3)(f). The contactless sensor needs to be independent of the sensor referenced in 7.2.1.6.2.1(1)</u> and 7.2.1.6.2.1(2) in order to ensure both sensors can't fail simultaneously.		
tatement of Probl	em and Substantiation for Public Inpu	ıt
		••
To avoid confusion, to unlock doors upc motion) sensors fail supplement to "pus	annex material is added to discuss the difference on occupant approach and the proposed contactle I. Text is also included that clarifies that contactle h to exit" devices.	es between the existing (overhead motion) sensors used ess sensors to unlock doors in the event the (overhead ess sensors can currently be used, but only as a
elated Public Inp	uts for This Document	
	Related Input	<u>Relationship</u>
Public Input No. 75	5-NFPA 101-2024 [Section No. 7.2.1.6.2.1]	annex material to PI 75
Public Input No. 77	'-NFPA 101-2024 [New Section after A.7.2.1.6.2]	
ubmitter Informat	tion Verification	
Submitter Full Nar	ne: Joshua Elvove	
Organization:	Self	
Street Address:		
City:		
State:		
Zip:		
	Mon Apr 22 21:20:59 EDT 2024	
Submittal Date:	WUIT API 22 21.29.30 EDT 2024	

Public Input N	No. 77-NFPA 101-2024 [New Section after	A.7.2.1.6.2]
IFPA		
<u>A.7.2.1.6.2.1(3)</u> in concert with	<u>. Nothing in the 7.2.1.6.2.1 precludes the use of co the "push to exit" device referenced in by 7.2.1.6</u>	ontactless sensors so long as they are used 5.2.1(3)(c).
tatement of Probl	em and Substantiation for Public Input	
Though PI 75 and 7 annex note is to per exit" button that's al	6 are preferred, this is a placeholder in the event that mit contactless sensors to unlock doors so long as th ready required.	t PI 75 and 76 are rejected. The purpose of this ney are installed in addition to the manual "push to
elated Public Inp	uts for This Document	
	Related Input	<u>Relationship</u>
Public Input No. 75	-NFPA 101-2024 [Section No. 7.2.1.6.2.1]	substitute in the event PI /5 and /6 fail
Public Input No. 76	-NFPA 101-2024 [New Section after A.7.2.1.0.2]	substitute in the event P175 and 76 fail
ubmitter Informat	ion Verification	
Submitter Full Nan	ne: Joshua Elvove	
Organization:	Self	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Mon Apr 22 21:34:17 EDT 2024	
Committee:	SAF-MEA	

Public Input I	No. 6-NFPA 101-2024 [Section No. A.7.2.1.6.2]
2 4°	
A.7.2.1.6.2	
Doors with a ser by a sensor acti to cause the ele manual release required by item the door is elect unobstructed, in	Isor-release electrical locking system are equipped with an electrical locking system that is released vated by the normal motions of an occupant egressing through that door. The activation of the sensor ctrical lock to release is usually by passive action by the occupant, such as walking to the door. A device, such as a push-button switch that directly interrupts the power to the electrical lock, is (3) as a backup. With most sensor-release electrical locking systems, the occupant might not notice rically locked in the direction of egress. Doors equipped with these locking systems provide armediate egress.
These provision some type of ac into the building resulted in differ retitled in the 20	s were previously titled "Access-Controlled Egress Door Assemblies" as these doors typically have cess control system, such as a key pad, card scanner, or fob scanner controlling access (ingress) or space. Because access control systems can be installed on essentially any door, the previous title ing interpretations, applications, and enforcement of permitted locking systems, and they were 18 edition of the <i>Code</i>
<u>.1 The sensor</u> <u>approach _ is</u> <u>contactless sensor</u> <u>button that do the event the</u>	referenced in 7.2.1.6.2.1(1) and 7.2.1.6.2.1(2) used to unlock the door upon occupant ty picall y mounted above the locked door in the direction of eg ress. The purpose of the ensor referenced in 7.2.1.6.2.1(3) is to provide another manual option to the "PUSH TO EXIT" pesn't require phy sical contact and locate it within 60 inches of the door to unlock the doors in sensor referenced in 7.2.1.6.1.2(1) and 7.2.1.6.2.1(2) fails.
<u>A.7.2.1.6.2.1</u>	<u>3)(d). A wave-to-open sensor is an example of a contactless_sensor.</u>
<u>A.7.2.1.6.2.1</u> <u>7.2.1.6.2.1(1</u>	(<u>3)(f). The contactless sensor needs to be independent of the sensor referenced in</u> <u>and 7.2.1.6.2.1(2) in order to ensure both sensors can't fail simultaneously _</u>
litional Propose	ed Changes
File Name	Description <u>Approved</u>
PC/1-101_SAF-MI	=A.pat 101_PC#/1
tement of Probl	em and Substantiation for Public Input
NOTE: This Public NFPA 101 and per	Input appeared as "Reject but Hold" in Public Comment No. 71 of the (A2023) Second Draft Report for the Regs. at 4.4.8.3.1 and needs to be reconsidered by the TC for the next edition of the document.
Add the text from th Terra View shows)	e public comment to existing annex text as appropriate (i.e., do not delete any existing text, if that's wh
The use of contactle of infection, especia manual "push to ex listed to UL 294 and upon occupant app	ess sensors to open doors is becoming more prevalent due to Covid and other concerns about the spre ally in health care settings. Contactless sensors (e.g., "wave to open" devices) can perform similarly to it" devices and should therefore be permitted as a substitute for "push to exit" devices, but only if they a d only if they are configured to be independent of the (overhead motion) sensors used to unlock the door roach such that a single failure can't result in both types of sensors failing simultaneously.
To avoid confusion, to unlock doors upc motion) sensors fail	annex material is added to discuss the differences between the existing (overhead motion) sensors us on occupant approach and the proposed contactless sensors to unlock doors in the event the (overhead
omitter Informat	ion Verification
Submitter Full Nar	ne:
	Holds
Organization:	
Organization: Street Address:	
Organization: Street Address: City:	
Organization: Street Address: City: State:	
Organization: Street Address: City: State: Zip:	
Organization: Street Address: City: State: Zip: Submittal Date:	Mon Jan 15 14:58:06 EST 2024

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FPA	
<u>A.7.2.1.6.2</u>	
Doors with a sens released by a ser of the sensor to c to the door. A ma electrical lock, is occupant might n locking systems p	sor-release electrical locking system are equipped with an electrical locking system that is user activated by the normal motions of an occupant egressing through that door. The activation ause the electrical lock to release is usually by passive action by the occupant, such as walking nual release device, such as a push-button switch that directly interrupts the power to the required by item (3) as a backup. With most sensor-release electrical locking systems, the ot notice the door is electrically locked in the direction of egress. Doors equipped with these provide unobstructed, immediate egress.
These provisions	were previously titled "Access-Controlled Egress Door Assemblies" as these doors typically
(ingress) into the previous title resu they were retitled	building or space. Because access control systems can be installed on essentially any door, the lted in differing interpretations, applications, and enforcement of permitted locking systems, and in the 2018 edition of the Code
<u>.1 The sensor re</u> is typically mount referenced in 7.2	ferenced in 7.2.1.6.2.1(1) and 7.2.1.6.2.1(2) used to unlock the door upon occupant approach ted above the locked door in the direction of egress. The purpose of the contactless sensor 1.1.6.2.1(3) is to provide another manual option to the "PUSH TO EXIT" button that doesn't contact and locate it within 60 inches of the door to unlock the doors in the event the sensor
referenced in 7.2	2.1.6.1.2(1) and 7.2.1.6.2.1(2) fails.
<u>A.7.2.1.6.2.1(3)(</u>	d). A wave-to-open sensor is an example of a contactless sensor.
A.7.2.1.6.2.1(3)(f and 7.2.1.6.2.1(2	 The contactless sensor needs to be independent of the sensor referenced in 7.2.1.6.2.1(1) in order to ensure both sensors can't fail simultaneously .
tatement of Proble	em and Substantiation for Public Comment
Add the text from the what Terra View sho	e public comment to existing annex text as appropriate (i.e., do not delete any existing text, if that's ws)
The use of contactles spread of infection, e similarly to manual "p only if they are listed to unlock the door un	ss sensors to open doors is becoming more prevalent due to Covid and other concerns about the especially in health care settings. Contactless sensors (e.g., "wave to open" devices) can perform
simultaneously.	to UL 294 and only if they are configured to be independent of the (overhead motion) sensors use son occupant approach such that a single failure can't result in both types of sensors failing
To avoid confusion, a used to unlock doors (overhead motion) se	I to UL 294 and only if they are configured to be independent of the (overhead motion) sensors use con occupant approach such that a single failure can't result in both types of sensors failing annex material is added to discuss the differences between the existing (overhead motion) sensors s upon occupant approach and the proposed contactless sensors to unlock doors in the event the ensors fail.
To avoid confusion, a used to unlock doors (overhead motion) se	I to UL 294 and only if they are configured to be independent of the (overhead motion) sensors use con occupant approach such that a single failure can't result in both types of sensors failing annex material is added to discuss the differences between the existing (overhead motion) sensors is upon occupant approach and the proposed contactless sensors to unlock doors in the event the ensors fail. <u>Related Item</u>
 To avoid confusion, a used to unlock doors (overhead motion) se New text for 7.2.1.6 ubmitter Informati 	I to UL 294 and only if they are configured to be independent of the (overhead motion) sensors use con occupant approach such that a single failure can't result in both types of sensors failing annex material is added to discuss the differences between the existing (overhead motion) sensors approach and the proposed contactless sensors to unlock doors in the event the ensors fail. <u>Related Item</u> 3.2. on Verification
 To avoid confusion, a used to unlock doors (overhead motion) set New text for 7.2.1.6 ubmitter Informati 	I to UL 294 and only if they are configured to be independent of the (overhead motion) sensors use con occupant approach such that a single failure can't result in both types of sensors failing annex material is added to discuss the differences between the existing (overhead motion) sensors a upon occupant approach and the proposed contactless sensors to unlock doors in the event the ensors fail. <u>Related Item</u> 3.2. on Verification
 New text for 7.2.1.6 ubmitter Informati Submitter Full Nam Organization: Street Address: City: 	annex material is added to discuss the differences between the existing (overhead motion) sensors use on occupant approach such that a single failure can't result in both types of sensors failing annex material is added to discuss the differences between the existing (overhead motion) sensors support occupant approach and the proposed contactless sensors to unlock doors in the event the ensors fail. <u>Related Item</u> 3.2. on Verification e: Joshua Elvove Self
 New text for 7.2.1.6 ubmitter Informati Submitter Full Nam Organization: Street Address: City: State: 	I to UL 294 and only if they are configured to be independent of the (overhead motion) sensors use con occupant approach such that a single failure can't result in both types of sensors failing annex material is added to discuss the differences between the existing (overhead motion) sensors s upon occupant approach and the proposed contactless sensors to unlock doors in the event the ensors fail. <u>Related Item</u> 5.2. on Verification e: Joshua Elvove Self

Committee Statement

Committee Action:Rejected but heldResolution:The proposed revision is new material. The related PC-70 on Ch. 7 was also held.

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<u>A.7.2.1.6.3</u>	
These locking s	systems cause the electrical lock to be released by the normal operation of the door-mounted atching hardware. If the door is equipped with a mechanical lock in addition to the electrical lock, the
operation of the	e releasing door hardware would also mechanically unlock the door assembly in the direction of
egress.	//////////////
One example of lock positioned with the panic h electromagnetic	If this type of locking system is panic hardware with an internal switch connected to an electromagnetic at the top of the door opening. The normal operation of unlocking / unlatching the door mechanically hardware also activates the internal switch directly interrupting the power _ supplied _ to the c door lock, allowing the door to be opened for unobstructed and immediate egress.
Suggestion of an A	Annex note for door hardware release electrical locking systems.
Suggestion of an A	Annex note for door hardware release electrical locking systems.
Nutement of Prob Suggestion of an A bmitter Informa Submitter Full Na	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman
Suggestion of An A bmitter Informa Submitter Full Na Organization:	Annex note for door hardware release electrical locking systems. Annex Note for door hardware release electrical locking systems. Antion Verification Me: John Woestman Kellen Company
Suggestion of an A bmitter Informa Submitter Full Na Organization: Affiliation:	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
Suggestion of an A bmitter Informa Submitter Full Na Organization: Affiliation:	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
Suggestion of an A bmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City:	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
Suggestion of an A bmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State:	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
Atement of Prob Suggestion of an A bmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip:	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association
Atement of Prob Suggestion of an A bmitter Informa Submitter Full Na Organization: Affiliation: Street Address: City: State: Zip: Submittal Date:	Annex note for door hardware release electrical locking systems. Annex note for door hardware release electrical locking systems. Ation Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association Mon Jun 03 22:02:30 EDT 2024

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<u>A 7.2.1.6.5</u>	
Interlocked-door	<u>vestibules are _ as the name implies: a vestibule with interlocked-doors. The _ egress _ door into the erlocked _ with the door leading out of the vestibule _ such that _ only one of the doors can be open a</u>
Interlocked -doc clean rooms), co security reasons	or vestibules may be utilized for environmental contamination control (health care; manufacturing ontrolled substance dispensing (prescription drugs and cannabis), occupant protection (health care), (money handling rooms), and other uses and applications.
<u>An occupant egi</u>	ressing through an interlocked-door vestibule would not be delayed at the second door in series if the
first door in serie	es is in a closed position. Conversely, if the first door is not closed, the second door would not be able
to be opened. I	ne requirements for interiock override switches, for "fail-safe" interiocks in the event of power failure, a the interlock upon activation of the sprinkler system or smoke detection system are all intended to
ensure unencun	bered egress through the interlocked-door vestibule if and when needed.
Suggesting an Ann	ex note to complement the proposal for interlocked-door vestibules.
Suggesting an Anno	ex note to complement the proposal for interlocked-door vestibules.
Suggesting an Anno ted Public Inp o Rublic Input No. 20	ex note to complement the proposal for interlocked-door vestibules. uts for This Document Related Input Related Input Relation after 3 3 1651
Suggesting an Anno I ted Public Inp Public Input No. 29 Public Input No. 29	ex note to complement the proposal for interlocked-door vestibules. uts for This Document <u>Related Input</u> <u>Related Input</u> <u>Relationship</u> <u>17-NFPA 101-2024 [New Section after 3.3.165]</u> Relation after 7.2.1.6.41
Suggesting an Anno ted Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29	ex note to complement the proposal for interlocked-door vestibules. uts for This Document <u>Related Input</u> <u>Relationship</u> 97-NFPA 101-2024 [New Section after 3.3.165] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4]
Suggesting an Anno I ted Public Inp Public Input No. 29 Public Input No. 29 Public Input No. 29	ex note to complement the proposal for interlocked-door vestibules. uts for This Document Related Input P7-NFPA 101-2024 [New Section after 3.3.165] P8-NFPA 101-2024 [New Section after 7.2.1.6.4] P8-NFPA 101-2024 [New Section after 7.2.1.6.4] P8-NFPA 101-2024 [New Section after 7.2.1.6.4]
Suggesting an Anno Ited Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat	ex note to complement the proposal for interlocked-door vestibules. Related Input Relationship OT-NFPA 101-2024 [New Section after 3.3.165] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] Section Verification
Suggesting an Annu ted Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat	ex note to complement the proposal for interlocked-door vestibules. Related Input Relationship 07-NFPA 101-2024 [New Section after 3.3.165] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4] 08-NFPA 101-2024 [New Section after 7.2.1.6.4]
Suggesting an Anno Ited Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat Submitter Full Nar Organization:	ex note to complement the proposal for interlocked-door vestibules. uts for This Document <u>Related Input</u> <u>Relationship</u> <u>97-NFPA 101-2024 [New Section after 3.3.165]</u> <u>98-NFPA 101-2024 [New Section after 7.2.1.6.4]</u> <u>98-NFPA 101-2024 [New Section after 7.2.1.6.4]</u> tion Verification ne: John Woestman Kellen Company
Suggesting an Annu Ited Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat Submitter Full Nar Organization:	ex note to complement the proposal for interlocked-door vestibules. uts for This Document Related Input P7-NFPA 101-2024 [New Section after 3.3.165] P8-NFPA 101-2024 [New Section after 7.2.1.6.4] P8-NFPA 101-202
Suggesting an Annu ted Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat Submitter Full Nar Organization: Affiliation:	ex note to complement the proposal for interlocked-door vestibules. Related Input Relationship 97-NFPA 101-2024 [New Section after 3.3.165] Pressure 98-NFPA 101-2024 [New Section after 7.2.1.6.4] Pressure 99-NFPA 101-2024 [New Section after 7.2.1.6.4] Pressure 90-NFPA 101-2024 [New Section after 7.2.1.6.4] Pressure 90-NFPA 101-2024 [New Section after 7.2.1.6.4] Pressure 90-NFPA 101-2024 [New Section after 7.2.1.6.4
Suggesting an Annu ted Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat Submitter Full Nar Organization: Street Address: Sity:	ex note to complement the proposal for interlocked-door vestibules. uts for This Document <u>Related Input</u> <u>Relationship</u> <u>97-NFPA 101-2024 [New Section after 3.3.165]</u> <u>98-NFPA 101-2024 [New Section after 7.2.1.6.4]</u> <u>98-NFPA 101-2024 [New Section after 7.2.1.6.4]</u> tion Verification ne: John Woestman Kellen Company Builders Hardware Manufacturers Association
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Suggesting an Annu Ited Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat Submitter Full Nar Organization: Affiliation: Street Address: Sity: State: Sity:	ex note to complement the proposal for interlocked-door vestibules. uts for This Document Related Input Relationship 97-NFPA 101-2024 [New Section after 3.3.165] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4] 99-NFPA 101-2024 [New Section after 7.2.1.6.4] 98-NFPA 101-2024 [New Section after 7.2.1.6.4]
Suggesting an Annu- ted Public Input Public Input No. 29 Public Input No. 29 Public Input No. 29 mitter Informat Submitter Full Nar Organization: Street Address: Sity: State: Sip: Submittal Date:	ex note to complement the proposal for interlocked-door vestibules. uts for This Document <u>Related Input</u> <u>87-NFPA 101-2024 [New Section after 3.3.165]</u> <u>88-NFPA 101-2024 [New Section after 7.2.1.6.4]</u> <u>88-NFPA 101-2024 [New Section after 7.2.1.6.4]</u> tion Verification me: John Woestman Kellen Company Builders Hardware Manufacturers Association Mon Jun 03 21:38:00 EDT 2024

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	NO. 96-NFPA 101-2024 [New Section after A.7.7.1]		
<u>A.7.7.2</u>			
This section is in	ntended to allow egress from several types of exits through the interior of the building, provided the		
requirements of	this section are met. A common example is egress from exit stair enclosures but this section could		
building into the	vestibule would be considered the exit. This means for example, the manual fire alarm null station (if		
required) could	be located at the door into the vestibule and, in a health care occupancy complying with 18.3.4.5.3, the		
vestibule would	not be considered part of the corridor and would not require smoke detection. Note that this section is		
not applicable to	not applicable to horizontal exits, as the 2-hour horizontal exit fire barrier allows the area beyond the exit to be treated		
as a separate p	<u>unung.</u>		
vestibules. Where vestibule, as this al alarms due to dust clarifying that it doe make additional rec Submitter Informa	manual fire alarm pull stations are required, it makes sense for the pull station to be at the door into the lows for faster activation of the fire alarm system, and smoke detectors in vestibules can be subject to false from outside. This annex note clarifies that this provision is not limited to exit enclosures while also as not apply to horizontal exits. Horizontal exits have other specific requirements and there is no need to quirements on the way from the horizontal exit to the building exterior.		
Submitter Full Nar	ne: John Rickard		
Organization:	P3 Consulting		
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Submittal Date:	Mon May 13 10:35:16 EDT 2024		
Committee:	SAF-MEA		

SAF-MEA NFPA 101 INFORMATIONAL PI



3.3.66 Door.
See <u>3.3.26.1.</u>
3.3. 66.1 Elevator Lobby Door.
A door between an elevator lobby and another building space other than the elevator shaft. (SAF-MEA)
3.3.66.2 Fire Door.

Statement of Problem and Substantiation for Public Input

The door component of a fire door assembly. (SAF-FIR)

The term "door" is not defined in NFPA 101. The majority of the time the term is used in NFPA 101, it is likely being used in reference to the leaf of a swinging door assembly; however, that is not always the case. In the context of a vertical rolling door protecting a window opening in a smoke partition or smoke barrier, the rolling door "curtain" is what, if not a door that is part of a door assembly? To say it another way, a service counter "door" or "shutter" or "curtain" that protects a transaction counter opening in a smoke partition or smoke barrier is what, if not a door? For example, 8.4.3.5 requires "Doors shall be self-closing or automatic-closing in accordance with 7.2.1.8." If the intent of 8.4.3.5 is that a service counter door protecting a transaction window in a smoke partition be self- or automatic-closing in accordance with 7.2.1.8. If the intent of 8.4.3.5 is that a service counter door also strongly recommend adding commentary language/enhanced content to 3.3.26.1 to expand upon the existing content to include a vertical rolling door. Note that while a "door" in a smoke partition is not required to be fire-rated, the strongest correlation for describing a "door" protecting a service counter transaction window in a smoke partition is a service counter fire door, typically of the rolling steel fire door type, as described in NFPA 80, 2022 edition.

Related Public Inputs for This Document

Related Input	<u>Relationship</u>
Public Input No. 47-	"Shutters" as used in 8.4.3.6 is not a defined term; however, "door" and
NFPA 101-2024	"doors" as used in 8.4.3.1 through 8.4.3.5 and even 8.5.4.1 through
[Section No. 8.4.3.6]	8.5.4.4 is not inclusive of or traceable to all types of doors.

Submitter Information Verification

Submitter Full Name:	Eric Reed
Organization:	Poole Fire Protection, Inc.
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Fri Mar 22 17:29:01 EDT 2024
Committee:	SAF-AAC

- Copyright Assignment

I, Eric Reed, hereby irrevocably grant and assign to the National Fire Protection Association (NFPA) all and full rights in copyright

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By checking this box I affirm that I am Eric Reed, and I agree to be legally bound by the above Copyright Assignment and the terms and conditions contained therein. I understand and intend that, by checking this box, I am creating an electronic signature that will, upon my submission of this form, have the same legal force and effect as a handwritten signature

From:Harrington, GregTo:Harrington, GregSubject:FW: 101HB Ch. 7 Commentary DiscrepancyDate:Friday, June 7, 2024 3:45:04 PM



I apologize for the delayed reply. My response is based on NFPA 101, *Life Safety Code*, 2018 edition.

It appears that you have identified a possible discrepancy between the *Code* language and the *Handbook* commentary. The language in 7.2.4.2.4 has existed since the 1967 edition (and perhaps earlier, although I am unable to verify). It requires accumulation space on both sides of a horizontal exit barrier to be sized to accommodate the occupant load of both compartments. Prior to the 2009 edition of the *Handbook*, the related commentary read, "Although each compartment must contain sufficient available floor area [at least 3 ft2 (0.28 m2) per person for the total occupant load of both compartments], occupants will not remain in the safe compartment indefinitely..." In the 2009 edition of the *Handbook*, the editions.

I am unable to locate documentation to support the commentary revision in the 2009 edition, so I can only surmise that it was the commentary author's opinion that sufficient accumulation space would be provided if each compartment were sized to accommodate the occupant load of the compartment plus the number of occupants for which the horizontal exit is credited. The authority having jurisdiction might judge this to be a reasonable interpretation based on the current *Handbook* commentary and apply 7.2.4.2.4 accordingly via the provision for equivalency in Section 1.4. Such determination, however, must be made by the authority having jurisdiction.

Important Notice: Any opinion expressed in this correspondence is the personal opinion of the author and does not necessarily represent the official position of the NFPA or its Technical Committees. In addition, this correspondence is neither intended, nor should it be relied upon, to provide professional consultation or services.

Gregory Harrington, PE Principal Engineer

NFPA

If you have a follow-up question directly related to this inquiry, please reply to this email. If you have another question on either a separate topic or different document please return to the document information pages and submit your new question by clicking on the "Technical Questions" tab.

Create Date: 4/20/2023

Document Number: 101 Edition: 2018 Section: Section 7.2.4/7.2.4.2.4 Subject: Horizontal Exits

Question for NFPA: We recently encountered different interpretations regarding the accumulation area or waiting space calculation as it relates to the design of horizontal exits. Some designers and authorities having jurisdiction are interpreting the provision of section 7.2.4.2.4 to account for the entire population/occupant load in the adjacent compartment to be used for the one person per 3 sq. ft. accumulation space. As noted in the author commentary in the Life Safety Code Handbook, it indicates that the number of occupants to be considered is based on the occupants credited with utilizing or going through the doors in the horizontal exits. It is our position that the allocated space in the adjacent compartment, that is the compartment that occupants are moving from, is simply based on the number of occupants that the horizontal exit is being designed for, rather than the population of the entire adjacent compartment.

Provided all other conditions for horizontal exits are satisfied, our questions are as follows.

1. Is it the intent of section 7.2.4.2.4 to use the entire population of the adjacent compartment when determining the area of waiting/accumulation space? Or

2. Is it the intent of section 7.2.4.2.4 to use only the proportion of the population of the adjacent compartment expected to use the horizontal exit when determining the waiting/accumulation space?

From:	Harrington, Greg
То:	Harrington, Greg
Subject:	FW: NFPA 101 Security Turnstiles
Date:	Friday, June 7, 2024 2:34:58 PM

Sent: Monday, August 29, 2022 8:47 AM
To: Sisco, Jennifer <JSisco@nfpa.org>
Cc: Harrington, Greg <gharrington@NFPA.org>
Subject: Re: NFPA 101 Security Turnstiles

My original intent and I believe the intent of the TC was to allow "security access" turnstiles anywhere that turnstiles are permitted (i.e. anywhere revolving doors are permitted). I hope this helps.

On Fri, Aug 26, 2022 at 1:04 PM Sisco, Jennifer <<u>JSisco@nfpa.org</u>> wrote:

I am reviewing NFPA 101 and came across the provision for Security Turnstiles in 7.2.1.11.1.3. The charging language indicates "where permitted in Chapters 11 through 43" but there are no provisions in any chapters outside of Chapter 7. I saw that you were the original PI submitter to the 2015 edition and I was wondering if you could give me any insight what you were trying to achieve with these requirements and the discussion at the committee level. Was the intent to allow these turnstiles anywhere that turnstiles are permitted (i.e. anywhere revolving doors are permitted) or was it intended only for a specific occupancy?

Regards,

Jennifer Sisco, PE Senior Fire Protection Engineer | NFPA

Public Input No	o. 108-NFPA 5000-2024 [Section I	No. 11.8.1.1]
11.8.1.1*		
Illumination of me building and struc purposes of this re <u>accessways per s</u> an exit. For the pu aisles, corridors, r	ans of egress shall be provided in accordant ture where required in Chapters 15 through equirement, exit access shall include only control of the state of the st	nce with Section 11.8 for every a 31 and 33 through 34. For the designated stairs, aisles, <u>ailse</u> ators, and passageways leading to shall include only designated stairs, ways leading to a public way.
Statement of Proble	m and Substantiation for Public In on with Public Input No. 107-NFPA 5000-20	nput 24 to require illumination in aisle
Related Public Input	ts for This Document	
<u>Public Input No. 107</u> <u>16.2.5.7]</u>	Related Input -NFPA 5000-2024 [New Section after	<u>Relationship</u> reference re some aisle accessways
Submitter Information	on Verification	
Submitter Full Name	e: William Conner	
Organization:	Bill Conner Associates LLC	
Street Address:		
City:		
State:		
Zip:		
Submittal Date:	Thu May 30 14:24:04 EDT 2024	
Committee:	BLD-MEA	



16.2.5.7.10 Steps in Aisle Accessways

16.2.5.7.10.1

Steps in aisle accessways shall be marked as for aisles in Section 16.2.5.8.11

<u>16.2.5.7.10.1</u>

Steps in aisle accessways sahll be illuminated as for aisles in Section 11.8

Statement of Problem and Substantiation for Public Input

Steps in aisle access ways is a more recent development. These steps, whether for a transition from one level to another within the row or to separate the aisle accessway from the higher surface that chairs are mounted on for sightlines, are usually a single step with the known hazard, unexpected as explained in NFPA 101 annex note A.7.1.7.2. Similar to marking and because these are usually between rows of fixed seating which blocks illumination, these should be illuminated as well.

Submitter Information Verification

Submitter Full Name:	William Conner
Organization:	Bill Conner Associates LLC
Affiliation:	American Society of Theatre Consultants
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Thu May 30 14:02:17 EDT 2024
Committee:	BLD-AXM

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By checking this box I affirm that I am William Conner, and I agree to be legally bound by the above Copyright Assignment and the terms and conditions contained therein. I understand and intend that, by checking this box, I am creating an electronic signature that will, upon my submission of this form, have the same legal force and effect as a handwritten signature

FPA	
11.14.1.2	
The provisions of for evacuation is evacuation of pa with disabilities	of Section 11.14 shall not apply where the limited or supervised use of elevators s part of a formal or informal evacuation strategy, including the relocation or atients in health care occupancies and the relocation or evacuation of occupants that require a high level of supervision in other occupancies.
tatement of Prob	lem and Substantiation for Public Input
who use wheelchai current code is a co need it most from u level of supervision	rs who are unable to use the stairs to exit a building during an emergency. The ontradiction to the intent of Occupant Evacuation Operation as it prohibits those who ising it. The proposed revision would only limit use if someone required a high (such as a nursing home, memory care facility, penal institution, etc.).
Submitter Full Nar	ne: Kevin Brinkman
Submitter Full Nar Organization:	ne: Kevin Brinkman National Elevator Industry, In
Submitter Full Nar Organization: Street Address:	ne: Kevin Brinkman National Elevator Industry, In
Submitter Full Nar Organization: Street Address: City:	ne: Kevin Brinkman National Elevator Industry, In
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Submitter Full Nar Organization: Street Address: City: State: Zip: Submittal Date:	ne: Kevin Brinkman National Elevator Industry, In Fri May 31 17:15:52 EDT 2024

Public Input No. 117-NFPA 5000-2024 [Section No. 11.14.8.3]		
FPA		
11.14.8.3*		
Control signaling Occupant Evacu	g wiring and cables that do not serve Phase II emergency in-car service <u>or</u> <u>action Operation</u> shall not be required to be protected.	
tatement of Probl	em and Substantiation for Public Input	
Wiring for Occupan Occupant Evacuation	t Evacuation Elevators are required to be protected to allow the elevators to run o on Operation during a fire emergency	
ubmitter Informat	tion Verification	
Submitter Full Nar	ne: Kevin Brinkman	
Submitter Full Nar Organization:	ne: Kevin Brinkman National Elevator Industry, In	
Submitter Full Nar Organization: Street Address:	ne: Kevin Brinkman National Elevator Industry, In	
Submitter Full Nar Organization: Street Address: City:	ne: Kevin Brinkman National Elevator Industry, In	
Submitter Full Nar Organization: Street Address: City: State:	ne: Kevin Brinkman National Elevator Industry, In	
Submitter Full Nar Organization: Street Address: City: State: Zip:	ne: Kevin Brinkman National Elevator Industry, In	
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