



Board of Building Standards

CODE COMMITTEE MEETING AGENDA

DATE: NOVEMBER 19, 2020
TIME: 1:00 PM
LOCATION: VIDEOCONFERENCE
DIAL-IN # +1 614-721-2972
CONFERENCE ID: 870 573 989#
[Videoconference Link](#)

Call to Order

Approval of Minutes

[MIN-1](#) September 24 Meeting Minutes

Petitions

Recommendations of the Residential Construction Advisory Committee

[R-1](#) Petitions 20-07 (RCO 1402), 20-08 (RCO 1403), 20-09 (RCO 1412), 20-10 (RCO 1413)-
Update reference to UL/CSA 60335-2-40

Old Business

[OB-1](#) OBC 907.2.1/ICC 300

New Business

[NB-1](#) Proposed 2023 Ohio Code Development Schedule:

Adjourn

File Attachments for Item:

MIN-1 September 24 Meeting Minutes

OHIO BOARD OF BUILDING STANDARDS
CODE COMMITTEE MINUTES
September 24, 2020

The Code Committee met on September 24, 2020, 2020, via teleconference with the following members present: Mr. Denk, Mr. Samuelson, Mr. Barney, Ms. Cromwell, Mr. Johnson, Mr. Miller, Mr. Pavlis, Mr. Stanbery, and Mr. Tyler. Chairman Galvin was also present.

CALL TO ORDER - The September 24, 2020, meeting was called to order by Mr. Denk at 1:06 PM.

APPROVAL OF MINUTES

MIN-1 Ms. Cromwell moved and Mr. Miller seconded to approve the May 28th, 2020, minutes. The motion passed with Mr. Tyler abstaining.

PETITIONS

P-1 **Petitions 20-03 (OMC 918-Add UL/CSA 60335-2-40), 20-04 (OMC 908-Add UL/CSA 60335-2-40), 20-05 (OMC Chap. 15-Add UL/CSA 60335-2-40, Update ASHRAE Standards 15 & 34), 20-06 (OMC 1101-Add UL/CSA 60335-2-40)**

Staff reviewed the petitions and the referenced standards. After committee discussion, Mr. Pavlis moved and Mr. Samuelson seconded to recommend approval of the petitions. The motion passed unanimously.

P-2 **Petitions 20-07 (RCO 1402), 20-08 (RCO 1403), 20-09 (RCO 1412), 20-10 (RCO 1413)-Update reference to UL/CSA 60335-2-40**

Without objection, Mr. Denk tabled the petition until the committee is in receipt of an RCAC recommendation.

P-3 **Petition 20-12 (OBC 1106.6 - Accessible Routes in Parking)**

Board staff reviewed the petition and the proposed language change with the committee. After extended discussion of the petition, Mr. Johnson moved and Mr. Chris Miller seconded to recommended denial of the petition – The Committee found the proposed wording to be difficult to enforce, difficult to understand how the intent can be incorporated into the code, and potentially did not address the total related costs. The Committee realized this is a difficult and complex issue however determining “feasibility” and “where possible” is problematic and does not provide guidance for enforcement and may compound issues with parking design. Additionally, there was concern about how the proposal would impact parking design and site utilization when a large part of the scope of this change is outside the jurisdiction of the building code. If additional clarification is received from the federal government, the issue can be reexamined. The motion passed unanimously.

RECOMMENDATIONS OF THE RESIDENTIAL CONSTRUCTION ADVISORY COMMITTEE

No items for consideration.

OLD BUSINESS

OB-1 OBC 907.2.1/ICC 300

Staff reviewed the issue with the committee and after answering questions and after extensive committee discussion, Mr. Denk directed staff to continue developing language the committee could discuss at its next meeting.

NEW BUSINESS

No items for consideration

ADJOURN

Mr. Samuelson moved and Mr. Miller seconded to adjourn the meeting at 2:33PM. The motion passed unanimously.

File Attachments for Item:

R-1 Petitions 20-07 (RCO 1402), 20-08 (RCO 1403), 20-09 (RCO 1412), 20-10 (RCO 1413)-
Update reference to UL/CSA 60335-2-40

UL 1995 Transition to UL 60335-2-40



JULY 31
2019

Existing products impacted by, but do not yet comply with the new Electric Heat Back-up Protection requirements or the Ultraviolet Light (UV) requirements noted in UL 1995, 5th edition must be evaluated for compliance

UL 60335-2-40 3rd edition is out for ballot. This edition contains A2L refrigerant specific requirements. The scope now aligns with UL 1995

DECEMBER
2018

SEPTEMBER 15
2017

UL 60335-2-40, 2nd edition published

- Includes requirements for air-conditioners rated up to 15kV, partial units, and revised electric heat requirements.
- Includes requirements for the use of A2 and A3 (flammable) refrigerants.

NOVEMBER 30
2012

UL 60335-2-40, 1st edition published

- Covers products rated less than 600 Volts.
- Does not include requirements for the use of A2 and A3 (flammable) refrigerants.

Currently, manufacturers may have UL 1995 Certified products evaluated to UL 60335-2-40. UL 1995 will remain a valid certification standard through January 1, 2024, when it will be effectively obsolete. At that time, UL 1995 will no longer be used to certify new products.

FEBRUARY 6
2019

60335-2-40 ballot closes

JULY 15
2015

UL 1995, 5th edition published
The 5th Edition covers all products..

JANUARY 1
2024

All products shall comply with UL 60335-2-40 3rd edition by January 1, 2024. Today, products may be listed to either UL 1995 or UL 60335-2-40. However, with minimum equipment efficiency changes scheduled for 2023 and 2024, coupled with Low GWP refrigerant requirements expected in several states, all equipment within the scope of UL 1995 shall be retested to the requirements in the 3rd edition UL 60335-2-40

Empowering Trust™

APPLICATION

FOR
RULE CHANGE



BOARD OF BUILDING STANDARDS

6606 Tussing Road, P.O. Box 4009

Reynoldsburg, Ohio 43068-9009

(614) 644-2613

bbs@ohio.gov

www.com.state.oh.us/dico/bbs/default.aspx

Pursuant to section 3781.12 of the Revised Code and rules adopted by the Board of Building Standards, application is herewith submitted to adopt, amend, or annul a rule adopted by the Board pursuant to section 3718.10 of the Revised Code.

For BBS use:	
Petition #:	<u>20-07</u>
Date Recv'd:	<u>August 18, 2020</u>

Submitter: Julius Ballanco, P.E. JB Engineering and Code Consulting, P.C.
(Contact Name) (Organization/Company)

Address: 1661 Cardinal Drive
(Include Room Number, Suite, etc.)
Munster IN 46321
(City) (State) (Zip)

Telephone Number: (219) 922-6171 **Fax Number:** (219) 922-6172

Date: June 16, 2020 **E-mail Address:** JBEngineer@aol.com

Code Section: Section 1402 - Central Furnaces

General Explanation of Proposed Change (attach additional sheets if necessary):

Add UL/CSA 60335-2-40 as equivalent to the existing UL 1995 already listed.

Explanation of Cost Impact of Proposed Code Change*: The code change proposal will not increase or decrease the cost of construction. As a result, there is no impact to cost.

*Attach additional cost information as necessary to justify any statement of cost increase or cost decrease.

Information on Submittal (attach additional sheets if necessary):	
1. Sponsor:	JB Engineering and Code Consulting, P.C. Organization sponsoring or requesting the rule change (if any)
2. Rule Title:	2019 Ohio Residential Code - Section 1402 Title of rule change
3. Purpose/ Objective:	Many manufacturers will be transitioning away from UL 1995 to UL 60335-2-40 for most new products over the next few years, because UL 1995 will be obsoleted effective 1/1/2024 (see the attached notification from UL concerning this transition from UL 1995 to UL/CSA 60335-2-40). The newest 3rd edition of UL 60335-2-40, published November 2019, has many new requirements for electrical and refrigerant safety. The 3rd edition includes requirements for UV-C germicidal lamp systems, CO ₂ systems, photovoltaic systems, new marking requirements, water ingress rating system as well as allowances for Low Global Warming Potential (Low GWP) Group A2L refrigerants. Nationally Recognized Testing Laboratories (NRTL's) as they are approved by OSHA, will use the latest version of the UL 60335-2-40 safety standard for certification testing. Technical justification for the proposed rule change
4. Formatted Rule Language (Using Strike-out for Deleted Text and Underline for Added Text)	SECTION 1402 CENTRAL FURNACES 1402.1 General. Oil-fired central furnaces shall conform to ANSI/UL 727. Electric furnaces shall conform to UL 1995 or <u>UL/CSA 60335-2-40</u> . Use strike-out for deleted text and underline for added text
5. Notes:	<ol style="list-style-type: none"> To encourage uniformity among states using model codes, it is recommended that the submitter first submit any code change directly to ICC and participate in the national model code development process. Please provide a copy of application and documentation. Use a separate form for each code change proposal.

APPLICATION

FOR
RULE CHANGE



BOARD OF BUILDING STANDARDS

6606 Tussing Road, P.O. Box 4009
Reynoldsburg, Ohio 43068-9009
(614) 644-2613
bbs@ohio.gov

www.com.state.oh.us/dico/bbs/default.aspx

Pursuant to section 3781.12 of the Revised Code and rules adopted by the Board of Building Standards, application is herewith submitted to adopt, amend, or annul a rule adopted by the Board pursuant to section 3718.10 of the Revised Code.

For BBS use:	
Petition #:	20-09
Date Recv'd:	August 18, 2020

Submitter: Julius Ballanco, P.E. JB Engineering and Code Consulting, P.C.
(Contact Name) (Organization/Company)

Address: 1661 Cardinal Drive
(Include Room Number, Suite, etc.)

Munster IN 46321
(City) (State) (Zip)

Telephone Number: (219) 922-6171 **Fax Number:** (219) 922-6172

Date: August 17, 2020 **E-mail Address:** JBEngineer@aol.com

Code Section: Section 1412 - Absorption Cooling Equipment

General Explanation of Proposed Change (attach additional sheets if necessary):

Delete the reference to ANCE as they have withdrawn as a sponsor of 60335-2-40 standard after the 2nd Edition.

Explanation of Cost Impact of Proposed Code Change*: The code change proposal will not increase or decrease the cost of construction. As a result, there is no impact to cost.

*Attach additional cost information as necessary to justify any statement of cost increase or cost decrease.

APPLICATION

FOR
RULE CHANGE



BOARD OF BUILDING STANDARDS

6606 Tussing Road, P.O. Box 4009

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Pursuant to section 3781.12 of the Revised Code and rules adopted by the Board of Building Standards, application is herewith submitted to adopt, amend, or annul a rule adopted by the Board pursuant to section 3718.10 of the Revised Code.

For BBS use:	
Petition #:	20-10
Date Recv'd:	August 18, 2020

Submitter: Julius Ballanco, P.E. JB Engineering and Code Consulting, P.C.
(Contact Name) (Organization/Company)

Address: 1661 Cardinal Drive
(Include Room Number, Suite, etc.)

Munster IN 46321
(City) (State) (Zip)

Telephone Number: (219) 922-6171 **Fax Number:** (219) 922-6172

Date: August 17, 2020 **E-mail Address:** JBEngineer@aol.com

Code Section: Section 1413 - Evaporative Cooling Equipment

General Explanation of Proposed Change (attach additional sheets if necessary):

Delete the reference to ANCE as they have withdrawn as sponsor of 60335-2-40 standard after the 2nd Edition.

Explanation of Cost Impact of Proposed Code Change*: The code change proposal will not increase or decrease the cost of construction. As a result, there is no impact to cost.

*Attach additional cost information as necessary to justify any statement of cost increase or cost decrease.

Information on Submittal (attach additional sheets if necessary):																													
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2. Rule Title:	<p>2019 Ohio Residential Code - Chapter 44</p> <p style="text-align: center;">Title of rule change</p>																												
3. Purpose/ Objective:	<p>UL 60335-2-40 has been significantly updated in the 2019 edition. Most new products over the next few years, because UL 1995 will be obsoleted effective 1/1/2024 (see the attached notification from UL concerning this transition from UL 1995 to UL/CSA 60335-2-40). The newest 3rd edition of UL 60335-2-40, published November 2019, has many new requirements for electrical and refrigerant safety. The 3rd edition includes requirements for UV-C germicidal lamp systems, CO₂ systems, photovoltaic systems, new marking requirements, water ingress rating system as well as allowances for Low Global Warming Potential (Low GWP) Group A2L refrigerants. Nationally Recognized Testing Laboratories (NRTL's), as they are approved by OSHA, will use the latest version of the UL 60335-2-40 safety standard for certification testing.</p> <p>The reference to ANCE as a sponsor of this UL/CSA 60335-2-40 standard has been removed as ANCE in Mexico withdrew from the 3rd Edition and is no longer associated with this standard after the 2nd Edition.</p> <p>ASHRAE 34-2019 includes many new Low GWP refrigerants that do not appear in previous editions of the standard. It should be noted that the 2021 ICC International Residential Code references the 2019 edition of ASHRAE 34.</p> <p>The titles shown in Section 4401.3 - Referenced Standards for UL/CSA 60335-2-40 have been updated to reflect the current title of the standards.</p> <p style="text-align: center;">Technical justification for the proposed rule change</p>																												
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File Attachments for Item:

OB-1 OBC 907.2.1/ICC 300

Proposed OBC Chapter 9 - Fire Protection Systems

Section 907 - Fire Alarm and Detection Systems

907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies where the occupant load due to the assembly occupancy is 300 or more. Group A occupancies not separated from one another in accordance with Section 707.3.10 shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

~~Exception~~Exceptions:

1. Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

2. Manual fire alarm boxes and the associated occupant notification system or emergency voice/alarm communication system are not required for Group A-5 outdoor bleacher-type seating having an occupant load of greater than or equal to 300 and less than 15,000 occupants provided all of the following are met:

2.1 A public address system with standby power is provided;

2.2 Enclosed spaces attached to or immediately adjacent to the outdoor bleacher-type seating comprise, in the aggregate, a maximum of 10 percent or less of the overall area of the outdoor bleacher-type seating or 1000 ft² (92.9 m²), whichever is less;

2.3 Enclosed accessory spaces under or attached to the outdoor bleacher-type seating shall be separated from the bleacher-type seating in accordance with Section 1029.1.1.1 of this code;

2.4 All means of egress from the bleacher-type seating are open to the outside.

3. Manual fire alarm boxes and the associated occupant notification system or emergency voice/alarm communication system is not required for temporary Group A-5 outdoor bleacher-type seating provided all of the following are met:

3.1 There are no enclosed spaces under or attached to the outdoor bleacher-type seating;

3.2 The bleacher-type seating is erected for a period of less than 180 days; and

3.3 Evacuation of the bleacher-type seating is included in an approved fire safety plan.

907.2.1.1 System initiation in Group A occupancies with an occupant load of 1,000 or more. Activation of the fire alarm in Group A occupancies with an occupant load of 1,000 or more shall initiate a signal using an emergency voice/alarm communications system in accordance with Section 907.5.2.2.

Exception: Where approved, the prerecorded announcement is allowed to be manually deactivated for a period of time, not to exceed 3 minutes, for the sole purpose of allowing a live voice announcement from an approved, constantly attended location.

907.2.1.2 Emergency voice/alarm communication captions. Stadiums, arenas and grandstands required to caption audible public announcements shall be in accordance with Section 907.5.2.2.4.

907.5 Occupant notification systems. A fire alarm system shall annunciate at the fire alarm control unit and shall initiate occupant notification upon activation, in accordance with Sections 907.5.1 through 907.5.2.3.3. Where a fire alarm system is required by another section of this code, it shall be activated by:

1. Automatic fire detectors.
2. Automatic sprinkler system waterflow devices.
3. Manual fire alarm boxes.
4. Automatic fire-extinguishing systems.

Exception: Where notification systems are allowed elsewhere in Section 907 to annunciate at a constantly attended location.

907.5.1 Presignal feature. A presignal feature shall not be installed unless approved by the *building official with input from the fire official as outlined in Sections 106.1.2(5) and 901.2.1.1*. Where a presignal feature is provided, a signal shall be annunciated at a constantly attended location *as requested* by the *fire official* so that occupant notification can be activated in the event of fire or other emergency.

907.5.2 Alarm notification appliances. Alarm notification appliances shall be provided and shall be listed for their purpose. *Audible and visual alarm notification appliances shall be located and installed in accordance with this section, NFPA 72, Chapter 11, and ICC A 117.1.*

907.5.2.1 Audible alarms. Audible alarm notification appliances shall be provided and emit a distinctive sound that is not to be used for any purpose other than that of a fire alarm.

Exceptions:

1. Audible alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.
2. A visible alarm notification appliance installed in a nurses' control station or other continuously attended staff location in a Group I-2 Condition 2 suite shall be an acceptable alternative to the installation of audible alarm notification appliances throughout the suite in Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.
3. Where provided, audible notification appliances located in each occupant evacuation elevator lobby in accordance with Section 3008.9.1 shall be connected to a separate notification zone for manual paging only.

907.5.2.1.1 Average sound pressure. The audible alarm notification appliances shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound level or 5 dBA above the maximum sound level having a duration of not less than 60 seconds, whichever is greater, in every occupiable space within the building.

907.5.2.1.2 Maximum sound pressure. The maximum sound pressure level for audible alarm notification appliances shall be 110 dBA at the minimum hearing distance from the audible appliance. Where the average ambient noise is greater than 95 dBA, visible alarm notification appliances shall be provided in accordance with NFPA 72 and audible alarm notification appliances shall not be required.

907.5.2.2 Emergency voice/alarm communication systems. Emergency voice/alarm communication systems required by this code shall be designed and installed in accordance with NFPA 72. The operation of any automatic fire detector, sprinkler waterflow device or manual fire alarm box shall automatically sound an alert tone followed by voice instructions giving approved information and directions for a general or staged evacuation in accordance with the building's fire safety and evacuation plans required by Section 404 of the *fire code*. In high-rise buildings, the system shall operate on at least the alarming floor, the floor above and the floor below. Speakers shall be provided throughout the building by paging zones. At a minimum, paging zones shall be provided as follows:

1. Elevator groups.
2. Interior exit stairways.
3. Each floor.
4. Areas of refuge as defined in Chapter 2.

Exception: In Group I-1 and I-2 occupancies, the alarm shall sound in a constantly attended area and a general occupant notification shall be broadcast over the overhead page.

907.5.2.2.1 Manual override. A manual override for emergency voice communication shall be provided on a selective and all-call basis for all paging zones.

907.5.2.2.2 Live voice messages. The emergency voice/alarm communication system shall have the capability to broadcast live voice messages by paging zones on a selective and all-call basis.

907.5.2.2.3 Alternate uses. The emergency voice/alarm communication system shall be allowed to be used for other announcements, provided the manual fire alarm use takes precedence over any other use.

907.5.2.2.4 Emergency voice/alarm communication captions. Where stadiums, arenas and grandstands are required to caption audible public announcements in accordance with Section 1108.2.7.3, the emergency/voice alarm communication system shall be captioned. Prerecorded or live emergency captions shall be from an approved location constantly attended by personnel trained to respond to an emergency.

907.5.2.2.5 Emergency power. Emergency voice/alarm communications systems shall be provided with emergency power in accordance with Section 2702. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided in accordance with Sections 907.5.2.3.1 through 907.5.2.3.3.

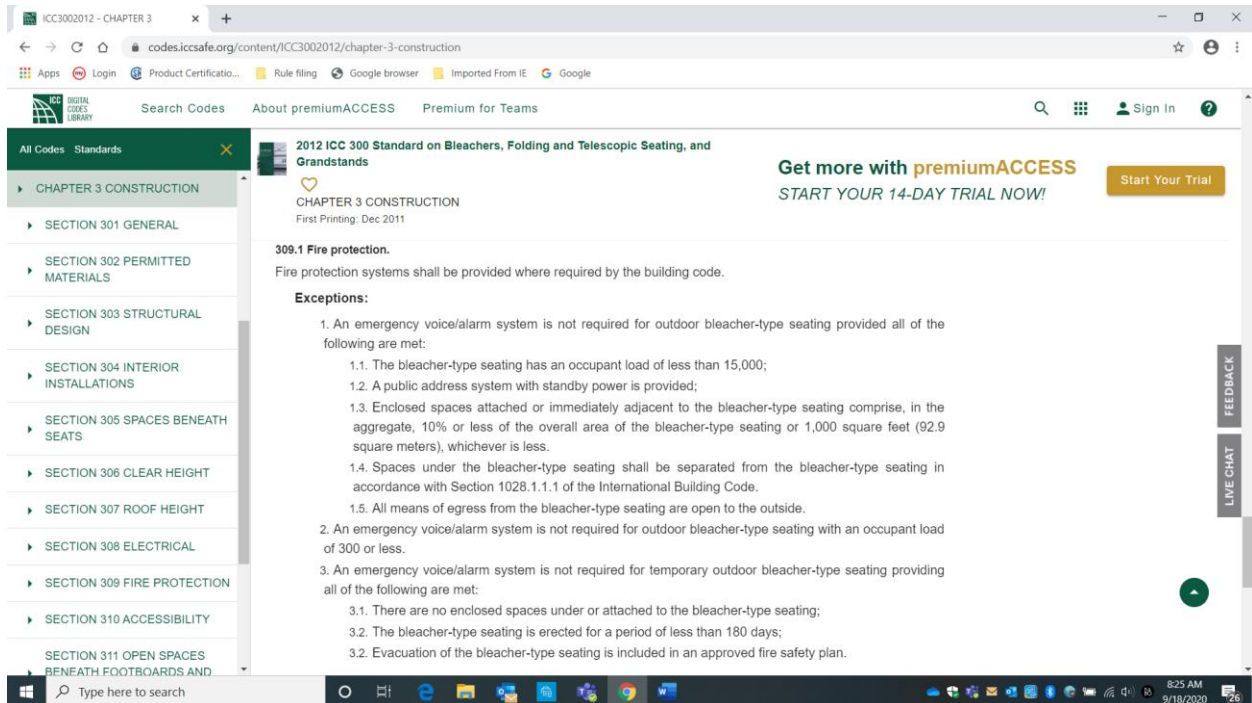
Exceptions:

1. Visible alarm notification appliances are not required in alterations, except where, *as part of the alteration, an existing notification appliance is relocated*, an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.
2. Visible alarm notification appliances shall not be required in exits as defined in Chapter 2.
3. Visible alarm notification appliances shall not be required in elevator cars.
4. Visual alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.

907.5.2.3.1 Public use areas and common use areas. Visible alarm notification appliances shall be provided in public use areas and common use areas.

Exception: Where employee work areas have audible alarm coverage, the notification appliance circuits serving the employee work areas shall be initially designed with not less than 20 percent spare capacity to account for the potential of adding visible notification appliances in the future to accommodate hearing-impaired employee(s).

ICC 300 -2012 referenced in OBC Chapter 35



Hanshaw, Regina

From: Ohler, Deborah
Sent: Friday, September 18, 2020 1:06 PM
To: Hanshaw, Regina
Cc: Regoli, Steven; Richards, Jay; Johnson, Robert
Subject: Code Committee Agenda item
Attachments: Bleacher fire protection - current requirements.pdf; Bleacher fire protection - proposed exceptions.pdf

Good morning, Regina.

I think the New Business agenda item can be listed as:

- Bleacher fire alarm system exceptions – OBC Section 907.2.1/ICC 300

I have attached two pdf documents as follows:

1. A compilation of the current code and standard requirements (Bleacher fire protection - current requirements)
2. A staff recommendation document (Bleacher fire protection - proposed exceptions)

We didn't discuss this yesterday, but after looking at the ICC 300 exceptions again which are incorporated into the attached staff recommendations, I think I am inclined to offer an additional exception in Section 907.2.1 to allow the omission of the manual fire alarm boxes and notification appliances from the bleacher-type seating areas having an occupant load of less than 1000 (or 15,000 to be consistent with the emergency voice communication exception from ICC 300), provided that there is a manual fire alarm box located in the area where the controls for the public address system are located and that any sprinklers that may be present in adjacent enclosed spaces send a signal, upon activation, to where the controls for the public address system are located. Thoughts?

Debbie



Deborah D. Ohler, P.E., Staff Engineer
Ohio Board of Building Standards
PO Box 4009, 6606 Tussing Rd.
Reynoldsburg, OH 43068-9009
Office phone: 614-644-2613 Fax: 614-222-2147
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<http://www.com.ohio.gov/dico/BBS/>

<http://coronavirus.ohio.gov>

Thanks for your patience while our staff works remotely to stop the community spread of COVID-19.

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Current OBC Chapter 3 - Use and Occupancy Classification

Section 303 - Assembly Group A

303.1 Assembly Group A. Assembly Group A occupancy includes, among others, the use of a building or structure, or a portion thereof, for the gathering of persons for purposes such as civic, social or religious functions; recreation, food or drink consumption or awaiting transportation.

303.6 Assembly Group A-5. Group A-5 occupancy includes assembly uses intended for participation in or viewing outdoor activities including, but not limited to:

Amusement park structures

Bleachers

Grandstands

Stadiums

Current OBC Chapter 9 - Fire Protection Systems

Section 907 - Fire Alarm and Detection Systems

907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies where the occupant load due to the assembly occupancy is 300 or more. Group A occupancies not separated from one another in accordance with Section 707.3.10 shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

Exception: Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

907.2.1.1 System initiation in Group A occupancies with an occupant load of 1,000 or more. Activation of the fire alarm in Group A occupancies with an occupant load of 1,000 or more shall initiate a signal using an emergency voice/alarm communications system in accordance with Section 907.5.2.2.

Exception: Where approved, the prerecorded announcement is allowed to be manually deactivated for a period of time, not to exceed 3 minutes, for the sole purpose of allowing a live voice announcement from an approved, constantly attended location.

907.2.1.2 Emergency voice/alarm communication captions. Stadiums, arenas and grandstands required to caption audible public announcements shall be in accordance with Section 907.5.2.2.4.

907.4.2 Manual fire alarm boxes. Where a manual fire alarm system is required by another section of this code, it shall be activated by fire alarm boxes installed in accordance with Sections 907.4.2.1 through 907.4.2.6.

907.4.2.1 Location. Manual fire alarm boxes shall be located not more than 5 feet (1524 mm) from the entrance to each exit. In buildings not protected by an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, additional manual fire alarm boxes shall be located so that the exit access travel distance to the nearest box does not exceed 200 feet (60 960 mm).

907.4.2.2 Height. The height of the manual fire alarm boxes shall be not less than 42 inches (1067 mm) and not more than 48 inches (1372 mm) measured vertically, from the floor level to the activating handle or lever of the box.

907.4.2.3 Color. Manual fire alarm boxes shall be red in color.

907.4.2.4 Signs. Where fire alarm systems are not monitored by a supervising station, an approved permanent sign shall be installed adjacent to each manual fire alarm box that reads: WHEN ALARM SOUNDS CALL FIRE DEPARTMENT.

Exception: Where the manufacturer has permanently provided this information on the manual fire alarm box.

907.4.2.5 Protective covers. The *building* official is authorized to require the installation of listed manual fire alarm box protective covers to prevent malicious false alarms or to provide the manual fire alarm box with protection from physical damage. The protective cover shall be transparent or red in color with a transparent face to permit visibility of the manual fire alarm box. Each cover shall include proper operating instructions. A protective cover that emits a local alarm signal shall not be installed unless approved. Protective covers shall not project more than that permitted by Section 1003.3.3.

907.4.2.6 Unobstructed and unobscured. Manual fire alarm boxes shall be accessible, unobstructed, *and* unobscured at all times.

907.5 Occupant notification systems. A fire alarm system shall annunciate at the fire alarm control unit and shall initiate occupant notification upon activation, in accordance with Sections 907.5.1 through 907.5.2.3.3. Where a fire alarm system is required by another section of this code, it shall be activated by:

1. Automatic fire detectors.
2. Automatic sprinkler system waterflow devices.
3. Manual fire alarm boxes.
4. Automatic fire-extinguishing systems.

Exception: Where notification systems are allowed elsewhere in Section 907 to annunciate at a constantly attended location.

907.5.1 Presignal feature. A presignal feature shall not be installed unless approved by the *building official with input from the fire official as outlined in Sections 106.1.2(5) and 901.2.1.1*. Where a presignal feature is provided, a signal shall be annunciated at a constantly attended location *as requested* by the fire *official* so that occupant notification can be activated in the event of fire or other emergency.

907.5.2 Alarm notification appliances. Alarm notification appliances shall be provided and shall be listed for their purpose. *Audible and visual alarm notification appliances shall be located and installed in accordance with this section, NFPA 72, Chapter 11, and ICC A 117.1.*

907.5.2.1 Audible alarms. Audible alarm notification appliances shall be provided and emit a distinctive sound that is not to be used for any purpose other than that of a fire alarm.

Exceptions:

1. Audible alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.
2. A visible alarm notification appliance installed in a nurses' control station or other continuously attended staff location in a Group I-2 Condition 2 suite shall be an acceptable alternative to the installation of audible alarm notification appliances throughout the suite in Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.
3. Where provided, audible notification appliances located in each occupant evacuation elevator lobby in accordance with Section 3008.9.1 shall be connected to a separate notification zone for manual paging only.

907.5.2.1.1 Average sound pressure. The audible alarm notification appliances shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound level or 5 dBA above the maximum sound level having a duration of not less than 60 seconds, whichever is greater, in every occupiable space within the building.

907.5.2.1.2 Maximum sound pressure. The maximum sound pressure level for audible alarm notification appliances shall be 110 dBA at the minimum hearing distance from the audible appliance. Where the average ambient noise is greater than 95 dBA, visible alarm notification appliances shall be provided in accordance with NFPA 72 and audible alarm notification appliances shall not be required.

907.5.2.2 Emergency voice/alarm communication systems. Emergency voice/alarm communication systems required by this code shall be designed and installed in accordance with NFPA 72. The operation of any automatic fire detector, sprinkler waterflow device or manual fire alarm box shall automatically sound an alert tone followed by voice instructions giving approved information and directions for a general or staged evacuation in accordance with the building's fire safety and evacuation plans required by Section 404 of the *fire code*. In high-rise buildings, the system shall operate on at least the alarming floor, the floor above and the floor below. Speakers shall be provided throughout the building by paging zones. At a minimum, paging zones shall be provided as follows:

1. Elevator groups.
2. Interior exit stairways.
3. Each floor.

4. Areas of refuge as defined in Chapter 2.

Exception: In Group I-1 and I-2 occupancies, the alarm shall sound in a constantly attended area and a general occupant notification shall be broadcast over the overhead page.

907.5.2.2.1 Manual override. A manual override for emergency voice communication shall be provided on a selective and all-call basis for all paging zones.

907.5.2.2.2 Live voice messages. The emergency voice/alarm communication system shall have the capability to broadcast live voice messages by paging zones on a selective and all-call basis.

907.5.2.2.3 Alternate uses. The emergency voice/alarm communication system shall be allowed to be used for other announcements, provided the manual fire alarm use takes precedence over any other use.

907.5.2.2.4 Emergency voice/alarm communication captions. Where stadiums, arenas and grandstands are required to caption audible public announcements in accordance with Section 1108.2.7.3, the emergency/voice alarm communication system shall be captioned. Prerecorded or live emergency captions shall be from an approved location constantly attended by personnel trained to respond to an emergency.

907.5.2.2.5 Emergency power. Emergency voice/alarm communications systems shall be provided with emergency power in accordance with Section 2702. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided in accordance with Sections 907.5.2.3.1 through 907.5.2.3.3.

Exceptions:

1. Visible alarm notification appliances are not required in alterations, except where, *as part of the alteration, an existing notification appliance is relocated*, an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.
2. Visible alarm notification appliances shall not be required in exits as defined in Chapter 2.
3. Visible alarm notification appliances shall not be required in elevator cars.
4. Visual alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.

907.5.2.3.1 Public use areas and common use areas. Visible alarm notification appliances shall be provided in public use areas and common use areas.

Exception: Where employee work areas have audible alarm coverage, the notification appliance circuits serving the employee work areas shall be initially designed with not less than 20 percent spare capacity to account for the potential of adding visible notification appliances in the future to accommodate hearing-impaired employee(s).

Current OBC Chapter 10 - Means of Egress

SECTION 1029 - ASSEMBLY

1029.1 General. A room or space used for assembly purposes that contains seats, tables, displays, equipment or other material shall comply with this section.

1029.1.1 Bleachers. Bleachers, grandstands and folding and telescopic seating, that are not building elements, shall comply with *Chapters 1-4 of ICC 300*.

1029.1.1.1 Spaces under grandstands and bleachers. Where spaces under grandstands or bleachers are used for purposes other than ticket booths less than 100 square feet (9.29 m²) and toilet rooms, such spaces shall be separated by fire barriers complying with Section 707 and horizontal assemblies complying with Section 711 with not less than 1hour fire-resistance-rated construction.

ICC 300 -2012 - currently referenced in OBC Chapter 35

The screenshot shows a web browser displaying the ICC Digital Library page for the 2012 ICC 300 Standard on Bleachers, Folding and Telescopic Seating, and Grandstands. The page includes a navigation menu on the left with sections like CHAPTER 3 CONSTRUCTION, SECTION 301 GENERAL, SECTION 302 PERMITTED MATERIALS, SECTION 303 STRUCTURAL DESIGN, SECTION 304 INTERIOR INSTALLATIONS, SECTION 305 SPACES BENEATH SEATS, SECTION 306 CLEAR HEIGHT, SECTION 307 ROOF HEIGHT, SECTION 308 ELECTRICAL, SECTION 309 FIRE PROTECTION, SECTION 310 ACCESSIBILITY, and SECTION 311 OPEN SPACES BENEATH FOOTBOARDS AND. The main content area shows the title '2012 ICC 300 Standard on Bleachers, Folding and Telescopic Seating, and Grandstands' and 'CHAPTER 3 CONSTRUCTION' with a first printing date of Dec 2011. Below this, section 309.1 'Fire protection' is detailed, stating that fire protection systems shall be provided where required by the building code. A list of exceptions follows:

- Exceptions:
- 1. An emergency voice/alarm system is not required for outdoor bleacher-type seating provided all of the following are met:
 - 1.1. The bleacher-type seating has an occupant load of less than 15,000;
 - 1.2. A public address system with standby power is provided;
 - 1.3. Enclosed spaces attached or immediately adjacent to the bleacher-type seating comprise, in the aggregate, 10% or less of the overall area of the bleacher-type seating or 1,000 square feet (92.9 square meters), whichever is less.
 - 1.4. Spaces under the bleacher-type seating shall be separated from the bleacher-type seating in accordance with Section 1028.1.1.1 of the International Building Code.
 - 1.5. All means of egress from the bleacher-type seating are open to the outside.
- 2. An emergency voice/alarm system is not required for outdoor bleacher-type seating with an occupant load of 300 or less.
- 3. An emergency voice/alarm system is not required for temporary outdoor bleacher-type seating providing all of the following are met:
 - 3.1. There are no enclosed spaces under or attached to the bleacher-type seating;
 - 3.2. The bleacher-type seating is erected for a period of less than 180 days;
 - 3.2. Evacuation of the bleacher-type seating is included in an approved fire safety plan.

NFPA 102 – Standard for Grandstands, Folding and Telescopic Seating, Tents and Membrane Structures

9.6.3.5 When the occupant load of a room or space exceeds 1000, visible signals are not required in the assembly seating area and an approved alternative visible means of occupant notification is provided

9.6.3.6 The announcement shall be permitted to be made via voice communication or public address system

NFPA 5000 –

Ch 16 Assembly Occupancies

16.3.4 Detection, Alarm and Communication

If greater than 300 occupants, manual FAS required with visible and audible notification

If occupant load of a single room or space is greater than 1000 occupants, visible signals are not required in the assembly seating area and an approved alternative visible means of occupant notification is provided

A16.3.4 Examples of devices that might be used to provide alternative visible means could be scoreboards, message boards, and other electronic devices

Proposed OBC Chapter 9 - Fire Protection Systems

Section 907 - Fire Alarm and Detection Systems

907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies where the occupant load due to the assembly occupancy is 300 or more. Group A occupancies not separated from one another in accordance with Section 707.3.10 shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

Exception: Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

907.2.1.1 System initiation in Group A occupancies with an occupant load of 1,000 or more. Activation of the fire alarm in Group A occupancies with an occupant load of 1,000 or more shall initiate a signal using an emergency voice/alarm communications system in accordance with Section 907.5.2.2.

Exception~~Exceptions:~~

1. Where approved, the prerecorded announcement is allowed to be manually deactivated for a period of time, not to exceed 3 minutes, for the sole purpose of allowing a live voice announcement from an approved, constantly attended location.

2. An emergency voice/alarm communication system is not required for outdoor bleacher seating provided all of the following are met:

2.1 The bleacher-type seating has an occupant load of less than 15,000;

2.2 A public address system with standby power is provided;

2.3 Enclosed spaces attached or immediately adjacent to the bleacher-type seating comprise, in the aggregate, a maximum of 10 percent or less of the overall area of the bleacher-type seating or 1000 ft² (92.9 m²), whichever is less;

2.4 Spaces under the bleacher-type seating shall be separated from the bleacher-type seating in accordance with Section 1029.1.1.1 of this code;

2.5 All means of egress from the bleacher-type seating are open to the outside.

3. An emergency voice/alarm communication system is not required for temporary bleacher seating provided all of the following are met:

3.1 There are no enclosed spaces under or attached to the bleacher-type seating;

3.2 The bleacher-type seating is erected for a period of less than 180 days; and

3.3 Evacuation of the bleacher-type seating is included in an approved fire safety plan.

907.2.1.2 Emergency voice/alarm communication captions. Stadiums, arenas and grandstands required to caption audible public announcements shall be in accordance with Section 907.5.2.2.4.

907.5 Occupant notification systems. A fire alarm system shall annunciate at the fire alarm control unit and shall initiate occupant notification upon activation, in accordance with Sections 907.5.1 through 907.5.2.3.3. Where a fire alarm system is required by another section of this code, it shall be activated by:

1. Automatic fire detectors.
2. Automatic sprinkler system waterflow devices.
3. Manual fire alarm boxes.
4. Automatic fire-extinguishing systems.

Exception: Where notification systems are allowed elsewhere in Section 907 to annunciate at a constantly attended location.

907.5.1 Presignal feature. A presignal feature shall not be installed unless approved by the *building official with input from the fire official as outlined in Sections 106.1.2(5) and 901.2.1.1*. Where a presignal feature is provided, a signal shall be annunciated at a constantly attended location *as requested* by the *fire official* so that occupant notification can be activated in the event of fire or other emergency.

907.5.2 Alarm notification appliances. Alarm notification appliances shall be provided and shall be listed for their purpose. *Audible and visual alarm notification appliances shall be located and installed in accordance with this section, NFPA 72, Chapter 11, and ICC A 117.1.*

907.5.2.1 Audible alarms. Audible alarm notification appliances shall be provided and emit a distinctive sound that is not to be used for any purpose other than that of a fire alarm.

Exceptions:

1. Audible alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.
2. A visible alarm notification appliance installed in a nurses' control station or other continuously attended staff location in a Group I-2 Condition 2 suite shall be an acceptable alternative to the installation of audible alarm notification appliances throughout the suite in Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.
3. Where provided, audible notification appliances located in each occupant evacuation elevator lobby in accordance with Section 3008.9.1 shall be connected to a separate notification zone for manual paging only.

907.5.2.1.1 Average sound pressure. The audible alarm notification appliances shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound level or 5 dBA above

the maximum sound level having a duration of not less than 60 seconds, whichever is greater, in every occupiable space within the building.

907.5.2.1.2 Maximum sound pressure. The maximum sound pressure level for audible alarm notification appliances shall be 110 dBA at the minimum hearing distance from the audible appliance. Where the average ambient noise is greater than 95 dBA, visible alarm notification appliances shall be provided in accordance with NFPA 72 and audible alarm notification appliances shall not be required.

907.5.2.2 Emergency voice/alarm communication systems. Emergency voice/alarm communication systems required by this code shall be designed and installed in accordance with NFPA 72. The operation of any automatic fire detector, sprinkler waterflow device or manual fire alarm box shall automatically sound an alert tone followed by voice instructions giving approved information and directions for a general or staged evacuation in accordance with the building's fire safety and evacuation plans required by Section 404 of the *fire code*. In high-rise buildings, the system shall operate on at least the alarming floor, the floor above and the floor below. Speakers shall be provided throughout the building by paging zones. At a minimum, paging zones shall be provided as follows:

1. Elevator groups.
2. Interior exit stairways.
3. Each floor.
4. Areas of refuge as defined in Chapter 2.

Exception: In Group I-1 and I-2 occupancies, the alarm shall sound in a constantly attended area and a general occupant notification shall be broadcast over the overhead page.

907.5.2.2.1 Manual override. A manual override for emergency voice communication shall be provided on a selective and all-call basis for all paging zones.

907.5.2.2.2 Live voice messages. The emergency voice/alarm communication system shall have the capability to broadcast live voice messages by paging zones on a selective and all-call basis.

907.5.2.2.3 Alternate uses. The emergency voice/alarm communication system shall be allowed to be used for other announcements, provided the manual fire alarm use takes precedence over any other use.

907.5.2.2.4 Emergency voice/alarm communication captions. Where stadiums, arenas and grandstands are required to caption audible public announcements in accordance with Section 1108.2.7.3, the emergency/voice alarm communication system shall be captioned. Prerecorded or live emergency captions shall be from an approved location constantly attended by personnel trained to respond to an emergency.

907.5.2.2.5 Emergency power. Emergency voice/alarm communications systems shall be provided with emergency power in accordance with Section 2702. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided in accordance with Sections 907.5.2.3.1 through 907.5.2.3.3.

Exceptions:

1. Visible alarm notification appliances are not required in alterations, except where, *as part of the alteration, an existing notification appliance is relocated*, an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.
2. Visible alarm notification appliances shall not be required in exits as defined in Chapter 2.
3. Visible alarm notification appliances shall not be required in elevator cars.
4. Visual alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.

907.5.2.3.1 Public use areas and common use areas. Visible alarm notification appliances shall be provided in public use areas and common use areas.

Exception: Where employee work areas have audible alarm coverage, the notification appliance circuits serving the employee work areas shall be initially designed with not less than 20 percent spare capacity to account for the potential of adding visible notification appliances in the future to accommodate hearing-impaired employee(s).

ICC 300 -2012 referenced in OBC Chapter 35

The screenshot shows a web browser displaying the ICC Digital Codes Library website. The page title is "2012 ICC 300 Standard on Bleachers, Folding and Telescopic Seating, and Grandstands". The main content area is titled "CHAPTER 3 CONSTRUCTION" and "309.1 Fire protection." Below this, it states "Fire protection systems shall be provided where required by the building code." and "Exceptions:". The exceptions are listed as follows:

1. An emergency voice/alarm system is not required for outdoor bleacher-type seating provided all of the following are met:
 - 1.1. The bleacher-type seating has an occupant load of less than 15,000;
 - 1.2. A public address system with standby power is provided;
 - 1.3. Enclosed spaces attached or immediately adjacent to the bleacher-type seating comprise, in the aggregate, 10% or less of the overall area of the bleacher-type seating or 1,000 square feet (92.9 square meters), whichever is less.
 - 1.4. Spaces under the bleacher-type seating shall be separated from the bleacher-type seating in accordance with Section 1028.1.1.1 of the International Building Code.
 - 1.5. All means of egress from the bleacher-type seating are open to the outside.
2. An emergency voice/alarm system is not required for outdoor bleacher-type seating with an occupant load of 300 or less.
3. An emergency voice/alarm system is not required for temporary outdoor bleacher-type seating providing all of the following are met:
 - 3.1. There are no enclosed spaces under or attached to the bleacher-type seating;
 - 3.2. The bleacher-type seating is erected for a period of less than 180 days;
 - 3.2. Evacuation of the bleacher-type seating is included in an approved fire safety plan.

File Attachments for Item:

NB-1 Proposed 2023 Ohio Code Development Schedule:

Review Prep	Nov 2020 - Jan 2021
Code Committee Begins Code Review	February 2021
Code Committee Completes Code Review	6/30/21
Stakeholder Meeting to Update Code	July 2021
Rule Drafting	Aug - Sept 2021
Stakeholder Meeting	October 2021
File with CSI	December 2021
File with JCARR	March 2022
Public Hearing	April 2022
JCARR Hearing	May 2022
Board adopts Rules	June 2022
Rules to Publishers	7/1/22
2023 Ohio Codes Effective	1/1/23