Exhibit 5
2025 Building Code Change Matrices/Summaries
(Total 55 Pages)

2025 Oregon Structural Specialty Code (OSSC) (24 pgs, pgs 2-25)

> 2025 OSSC Online Training Link

2025 Oregon Mechanical Specialty Code (OSMC) (4 pgs, pgs 26-29)

> 2025 OMSC Online Training Link

2025 Oregon Energy Efficiency Specialty Code (OEESC) (5 pgs, pgs 30-34)

> 2025 OEESC Online Training Link

2025 Oregon Fire Code (OFC) (20 pgs, pgs 35-55)

No training link - see code change summary below

2025 Oregon Structural Specialty Code

Code review committee matrix

This matrix is a summary of the code review committee's recommendation to the Building Codes Structures Board for the adoption of the 2025 OSSC.

Abbreviations:

ORA	Existing/New Oregon amendment	**PP**	Public code amendment proposal
IBC	International Building Code change	**SAM**	Statewide Alternate Method
IEBC	International Existing Building Code change	**COMM**	Committee discussion
IFC	International Fire Code change	***ICC**	Fiscal impact reported by the original ICC proponent

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
CHAPTER 1 SCOPE AND ADMINISTRATION				
1-1	**101.2.2.1**	**Matters outside the statutory authority of the code.** **ORA** *The division introduced the inclusion of post-occupancy lease or rental arrangements, short-term rentals, vacation rentals and similar uses of dwellings as matters outside of the statutory authority of the code.* *Local municipalities may have independent authority outside of the division's delegated authority for local [occupied] housing, rental or business licensure programs.*	**Discussed**	—
1-2	**105.2**	**Unoccupied structures exempt from building permit – expanding size from 120 sq ft to 200 sq ft.** **ORA** *Committee recommends approving to expand exemption #1 to 200 square feet for all unoccupied accessory structures aside from trash enclosures. Committee recommends maintaining the existing 120 sq ft exemption for trash enclosures.*	**Approve New OR A**	No fiscal
CHAPTER 2 DEFINITIONS				
2-1	**Definitions**	**ORA/IFC/IEBC** Chapter 2 was made available for review to the committee, any new definitions were discussed with their respective code sections.	**See related sections**	—
CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE				
3-1	**304.5**	**Lockup facilities.** **ORA** Adds provisions for temporary lockup facilities defined in ORS 169.005(4).	**Retain ORA**	—
3-2	**305.2.3**	**Care facilities in dwellings.** **ORA** 305.2.3 Five or fewer children in a dwelling unit. 308.2.4 Five or fewer persons receiving custodial care. 308.3.2 Five or fewer persons receiving medical care. 308.5.4 Five or fewer persons receiving adult day care in a dwelling. 308.5.5 Child day care in a dwelling. 310.4.1 Child care facilities within a dwelling. 310.4.2 Licensed child care within a dwelling. 310.4.3 Licensed adult foster care within a dwelling. **COMM** *The committee recommends adding provisions regarding licensed childcare facilities in Group R-2 occupancies.*	**Retain ORA as modified**	*No fiscal
3-3	**306.3**	**Low-hazard factory industrial, Group F-2.** **IBC** F186-21 Part II: Changed alcohol content percent from 16 percent to 20 percent.	**Approve IBC**	*Slight decrease
		ORA Adds "Wood barrel and bottled wine aging facilities in wineries to the list of low-hazard factory industrial, Group F-2 occupancies	**Retain ORA**	—
3-4	**307.1.1**	**Occupancy Exemptions and Hazardous materials exemptions.** **IBC** G36-21: Reorganized multiple lists into a table.	**Approve IBC**	*No fiscal
		IFC/IBC 2027 ICC proposal F233-24: Add clarification for batteries as defined in Section 202.	**Approve New ORA**	*No fiscal
3-5	**307.2.1**	**Storage of Class 1.4G (Class C, Common) Fireworks.** **ORA** Adds provisions for the temporary storage of Class 1.4G (Class C Common) fireworks.	**Retain ORA**	—
3-6	**308.2**	**Institutional Group I-1. Condition 1 and 2.** **ORA** Specifies uses in their respective sections. 308.2.1 - Adds the appropriate facility types in condition 1. 308.2.2 - Adds the appropriate facility types in condition 2 & specifies that they pertain to buildings subject to licensure by DHS.	**Retain ORA**	—
3-7	**310.3**	**Residential Group R-2.** **ORA** Adds "providing 21 or more housing units for low-income elderly" from statute to the list of Group R-2 occupancies.	**Retain ORA**	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
3-8	310.5	**Residential Group R-4. Condition 1 and 2** ORA Specifies uses in their respective sections. 310.5.1 - Adds the appropriate facility types in condition 1. 310.5.2 - Adds the appropriate facility types in condition 2 & specifies that they pertain to buildings subject to licensure by DHS. COMM *In 310.5.2, the committee recommends adding "Residential training facilities" as a Group R-4, Condition 2 use.*	**Retain ORA as modified**	*No fiscal
3-9	311.1.1	**Accessory storage spaces.** ORA Allows that a space used for storage, accessory to another occupancy, be classified as part of that occupancy.	**Retain ORA**	—
3-10	311.3	**Low-hazard storage, Group S-2.** IBC F186-21 Part II: Changed alcohol content percent from 16 percent to 20 percent.	**Approve IBC**	*Slight decrease
		ORA Adds wood barrel containers for beverages up to and including 20-percent alcohol.	**Retain ORA**	—
3-11	311.4	**Mausoleums and columbariums, Group S-3.** ORA Adds Group S-3. Other sections: 302.1, T. 504.4, T.506.2, T. 508.4	**Retain ORA**	—
CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE				
4-1	407.12	**Emergency and standby power.** ORA Adds provisions for emergency and standby power for health care facilities.	**Retain ORA**	—
4-2	408.2	**Other occupancies.** ORA Adds that: Where security operations necessitate the locking of required *means of egress*, as allowed in Occupancy Conditions 2, 3, 4 and 5, provisions shall be always made for the release of occupants.	**Retain ORA**	—
4-3	408.3.9	**Cell tier exits.** ORA Adds cell tier exiting provisions	**Retain ORA**	—
4-4	408.12	**Emergency ventilation.** ORA Adds section for Group I-3 resident housing areas to be equipped with smoke and heat venting.	**Retain ORA**	—
4-5	411.1	**Special Amusement Areas General.** IBC G86-21 Part I: A second exception has been added for "puzzle rooms."	**Approve IBC**	*No fiscal
		ORA New amendment: Reorganize new exception into items in alignment with Chapter 10 and use terms that are recognizable.	**Approve New ORA**	*No fiscal
4-6	414.1	**Hazardous Materials General.** ORA/IFC IFC new construction provisions. Not a new requirement.	**Retain ORA/IFC**	—
4-7	415.11.1.1	**Hazardous materials.** IBC G91-21:	**Approve IBC**	*No fiscal
4-8	415.11.10.4	**Increased travel distance.** ORA Adds section for increase travel distance provisions with a pointer back to Section 1017.2.3	**Retain ORA**	—
4-9	416.3	**Spray finishing.** ORA/IFC IFC new construction provisions. (F 2404.1)	**Retain ORA/IFC**	—
4-10	416.4	**Prohibited enclosures for spray application operations.** ORA/IFC IFC new construction provisions. (F 2404.2)	**Retain ORA/IFC**	—
4-11	416.5	**Membrane enclosures.** ORA/IFC IFC new construction provisions. (F 2404.3)	**Retain ORA/IFC**	—
4-12	420.12	**Child care facilities within dwellings.** ORA Adds sections for child care options with automatic sprinkler systems and without.	**Retain ORA**	—
4-13	430	**Electrical Energy Storage Systems (ESS)** ORA/IFC IFC new construction provisions. (F1207) IFC/IBC 2027 IFC proposal F169-24 (F1207): Reorganization – Deleted the Section 1207 prescriptive requirements and replaced the language with references to NFPA 855. Also adds "thermal imaging detection system" to the options required for rooms, areas and walk-in units containing energy storage systems in Section 907.2.23. ***ICC: No cost impact from 2024 IFC**	**Retain ORA/IFC as modified**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
4-14	431-456	ORA/IFC **431 Dry Cleaning Solvents and Systems.** **432 Fruit and Crop Ripening.** IFC new construction provisions. (F 25) **433 Lumber Yards and Woodworking Facilities.** IFC new construction provisions. (F 28) **434 Industrial Ovens.** IFC new construction provisions. (F 30) **435 High-Piled Combustible Storage.** IFC new construction provisions. (F 32) **436 Tire Rebuilding.** IFC new construction provisions. (F 34) **437 Combustible Fibers.** IFC new construction provisions. (F 37) **438 Processing and Extraction Facilities.** IFC new construction provisions. (F 39) **439 Aerosols.** IFC new construction provisions. (F 51) **440 Compressed Gases.** IFC new construction provisions. (F 53) **441 Corrosive Materials.** IFC new construction provisions. (F 54) **442 Cryogenic Fluids.** IFC new construction provisions. (F 55) **443 Explosives and Fireworks.** IFC new construction provisions. (F 56) **444 Flammable and Combustible Liquids.** IFC new construction provisions. (F 57) **445 Flammable Gases and Flammable Cryogenic Fluids.** IFC new construction provisions. (F 58) **446 Flammable Solids.** IFC new construction provisions. (F 59) **447 Highly Toxic and Toxic Materials.** IFC new construction provisions. (F 60) **448 Liquefied Petroleum Gases.** IFC new construction provisions. (F 61) **449 Organic Peroxides.** IFC new construction provisions. (F 62) **450 Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids.** IFC new construction provisions. (F 63) **451 Pyrophoric Materials.** IFC new construction provisions. (F64) **452 Pyroxylin (Cellulose Nitrate)-Plastics.** IFC new construction provisions. (F 65) **453 Unstable (Reactive)-Materials.** IFC new construction provisions. (F66) **454 Water-Reactive Solids and Liquids.** IFC new construction provisions. (F 67) **455 Additive Manufacturing (3d Printing).** IFC new construction provisions. (F 319) **456 Storage of Distilled Spirits and Wines.** IFC new construction provisions. (F40)	**Retain ORA/IFC**	—
4-15	456.8	**Automatic sprinkler system.** ORA IFC new construction provisions. (F 4005)	**Retain ORA/IFC**	—
4-16	457	**Piers and Wharves.** ORA Adds section addressing piers and wharves.	**Retain ORA**	—
4-17	458	**Mausoleums and Columbariums.** ORA Adds section addressing mausoleums and columbariums	**Retain ORA**	—
4-18	459	**Lithium-Ion and Lithium Metal Battery Storage.** (Oregon adds new construction fire code provisions) ORA IFC/IBC 2024 IFC proposal F21-21 (F320): This proposal includes requirements that regulate the collection and storage of these batteries so as to reduce the probability of an event and mitigate any adverse impact on the affected facility and public safety. **ICC: Cost increase from 2021 IFC*	**Approve IFC/ORA**	*Minimal Cost Increase
		2024 IFC proposal F11-24 (Definitions): Revises and adds definitions for battery types. **ICC: No cost impact from 2024 IFC*	**Approve IFC/ORA**	
		2027 IFC proposal F51-24 (F320.1): This proposal adds Exemption 6 to clarify it is not the intent of this section to regulate miscellaneous small consumer size batteries in equipment or batteries staged or charging as is commonly found in maintenance areas, fire stations, contractor shops, etc. **ICC: No cost impact from 2024 IFC* 2027 IFC proposal F54-24 (F320.1 & F320.5): Revises to give general guidance for safe storage of batteries other than lithium-ion and lithium metal. **ICC: No cost impact from 2024 IFC*	**Approve IFC/ORA**	
		2027 IFC proposal F52-24 (F320.4): **ICC: Cost decrease from 2024 IFC* 320.4.1.1 Clarifies the open top container storage are for collection of used or unwanted batteries from public or employees. 320.4.1.2 Adds a provision for limited storage DOTn regulations require batteries placed in bags to prevent short circuiting, and space between filled with vermiculite. The quantity limit is still limited to 15 cf. 320.4.1.3 Adds a section general miscellaneous storage (still limited to 15 cf) to clarify that other storage configurations are allowed, and often are safer, than just the open top unwanted battery collection.	**Approve IFC/ORA**	
		2027 IFC proposal F53-24 (F320.4): **ICC: Cost decrease from 2024 IFC* 320.4.3.6 Revises to not point to hazardous material weather protection and provide weather protection specific to battery storage which is consistent with the requirements of NFPA 855.	**Approve IFC/ORA**	

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
*	460	**Lithium-ion and lithium metal battery research, testing, manufacturing, or recycling.** **ORA** 2027 IFC proposal F64-24 (F324): **ICC: Cost decrease from 2024 IFC* **IFC/IBC** Provides guidance for the safe design, construction, and operation of these operations involving lithium-ion or lithium metal batteries. Identifies the application of the requirements, that a technical report be provided that documents how the hazards will be addressed in relationship to the code requirements. Also includes editorial change in Section 903.2.4.	**Approve IFC/ORA**	
CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS				
5-1	503.1.4	**Occupiable roofs.** **IBC** G20-21 Part I, G105-21, CCCIBC 14-22: Changed "occupied roof" to "occupiable roofs" throughout the code. Added another exception for where the roof deck is located more than 75 feet above the lowest level of fire department vehicle access.	**Approve IBC**	*No fiscal
5-2	508.1	**General mixed use and occupancy.** **ORA** Adds uses within certain live/work units and certain wineries are not considered separate occ. However, incidental uses in 509 and storage rooms larger than 750 ft^2 where wine is stored in wood or cardboard cases are not exempt from separation req.	**Retain ORA**	—
5-3	508.5	**Live/Work units.** **IBC** G125-21, G127-21: Clarification and coordination of IBC and IRC requirements. **ORA** Adds an exception regarding detached one- and two-family dwellings and townhouses.	**Approve IBC** **Retain ORA**	*No fiscal —
5-4	508.5.7	**Fire protection.** **IBC** G126-21 Part II: Clarify the allowance to use fire protection requirements in the IRC for IRC live/work units. **ORA** Rescinded the ORA 508.5.7.1, *no longer necessary.*	**Approve IBC**	*No fiscal
5-5	510.2	**Horizontal building separation allowance.** **IBC** G130-21: Clarify how the separation must be constructed, what type of assembly must be used, fire barriers, and subsequently how to address openings, penetrations, joints, continuity, etc. See 707.3.11, Horizontal separation offsets.	**Approve IBC**	*No fiscal
CHAPTER 6 TYPES OF CONSTRUCTION				
6-1	T. 601	**Fire-Resistance Rating Requirements for Building Elements (Hours)** **ORA** Adds to fn (a) that the reduction does not apply to occupiable roofs or to roofs supporting rooftop structures regulated by Section 1511, vegetative roofs and landscaped roofs. Adds fn (h) For the purpose of determining the fire-resistance rating of joints, penetrations, openings and ducts in concrete floor and roof two-way slabs having direct connections to the columns, the fire-resistance rating for associated secondary members shall be used. Adds fn (i) All reinforcing steel and post-tensioning tendons in concrete floor and roof two-way slabs having direct connections to the columns shall have concrete coverage adequate to provide the fire-rating required for primary structural frame elements.	**Retain ORA**	—
CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES				
7-1	704.1, 704.2	**Protection of the primary structural frame.** **IBC** FS8-21: Restructured into two sections, primary and secondary members, to have the charging language first and outlines the appropriate exceptions thereto.	**Approve IBC**	*No fiscal
7-2	705.6	**Continuity.** **IBC** FS18-21: New section regarding continuity.	**Approve IBC**	*No fiscal
7-3	705.7.1	**Floor assemblies in Type III construction.** **IBC** FS19-21: New section regarding Type III construction where a floor assembly supports gravity loads from an exterior wall.	**Approve IBC**	*No fiscal
7-4	705.9.6	**Vertical exposure.** **ORA** Adds charging information for the vertical exposure opening protectives on adjacent lots. 705.9.6.1: Adds section heading, modifies the points of measurement and specifies 'lower roof assembly' in exception no. 1. 705.9.6.2: Adds provisions for building on separate lots.	**Retain ORA**	—
7-5	706.1.1	**Party walls.** **ORA** Deletes exception no. 2.	**Retain ORA**	—
7-6	706.1.2	**Deemed to comply.** **IBC** FS29-21: Adds a new section with language from another regarding fire walls designed and constructed to NFPA 221.	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
7-7	706.5	**Horizontal continuity.** ORA Adds to exception no. 3: "The noncombustible exterior sheathing shall extend horizontally for a distance not less than the width of the fire wall at the termination."	**Retain ORA**	—
7-8	707.6	**Openings.** IBC FS40-21, FS41-21, FS42-21: Added new exceptions to the 25% length limitation for fire barrier openings	**Approve IBC**	*No fiscal
7-9	708.4.1 710.4.1	**Fire partition walls enclosing elevator lobbies.** IBC G183-21 Part II: New section regarding fire partition walls used to enclose elevator lobbies. New section regarding Smoke partition walls used to enclose elevator lobbies.	**Approve IBC**	*No fiscal
7-10	710.4	**Continuity.** IBC FS49-21: Added a new exception.	**Approve IBC**	*No fiscal
7-11	711.2.4	**Fire-resistance rating.** ORA Adds an exception to see Table 601 for "concrete floor or roof two-way assemblies having direct connection to the column."	**Retain ORA**	—
7-12	712.1.3.2	**Automatic shutters.** IBC FS51-21, FS53-21: Reorganized for clarity.	**Approve IBC**	*No fiscal
7-13	713.4	**Fire-resistance rating.** IBC FS55-21: Added exception for shafts having a reduced fire-resistance rating in high rise buildings with a helpful pointer back to the high-rise provisions	**Approve IBC**	*No fiscal
7-14	714.3	**Sleeves.** IBC FS60-21: Added requirement for MIIs and listing criteria.	**Approve IBC**	*No fiscal
7-15	714.5.1	**Through penetrations.** IBC FS64-21: Added an exception.	**Approve IBC**	*No fiscal
7-16	714.5.1.2	**Through-penetration firestop system.** IBC FS66-21: Added an exception.	**Approve IBC**	*No fiscal
7-17	715.2.1	**List system installation.** IBC FS45-21, FS68-21: Added new section regarding listed fire-resistant joint systems, perimeter fire containment systems and continuity head-of-wall systems.	**Approve IBC**	*No fiscal
7-18	715.2.2	**Approved materials installation.** IBC FS68-21: New section regarding approved materials protecting voids.	**Approve IBC**	*No fiscal
7-19	715.4, 715.5	**Exterior curtain wall/fire-resistance-rated floor intersections and floor assembly intersections.** IBC FS75-21: Extends exceptions that are applicable to curtain wall/floor intersections to the void. **ICC: Cost decrease – For certain conditions, this proposal will remove the requirement for approved systems at voids at curtain wall/floor intersections so the cost of construction will decrease.*	**Approve IBC**	*Cost decrease
7-20	715.6	**Fire barrier/nonfire-resistance-rated roof assembly intersections.** IBC FS44-21, FS45-21: New section regarding voids created at the intersection of a fire barrier and the underside of a nonfire-resistance-rated roof sheathing, slab or deck above.	**Approve IBC**	*No fiscal
7-21	716.2.2.1.1	**Smoke and draft control.** IBC FS84-21: Added exception.	**Approve IBC**	*No fiscal
7-22	716.2.6.1	**Door closing.** IBC FS85-21, G44-21 Part I, G180-21: Added an exception regarding fire doors required solely for compliance with ICC 500.	**Approve IBC**	*No fiscal
7-23	717.2.4, 717.2.4.1	**Mechanical, electrical and plumbing controls, and Controls not permitted to be installed through dampers.** IBC FS88-21: Added new sections addressing mechanical, electrical and plumbing controls.	**Approve IBC**	*No fiscal
CHAPTER 8 INTERIOR FINISHES				
8-1	803.13	**Interior finish requirements based on occupancy.** IBC FS155-21: Added clarification that the Interior wall and ceiling finish shall have a classification such that the flame spread index and smoke-developed index values are not higher than those corresponding to the classification.	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
8-2	806.3	**Occupancy-based requirements.** ORA Deletes section because it is a Post Certificate of Occupancy issue.	**Retain ORA**	—
8-3	808.1	**Acoustical ceiling systems.** ORA Adds a pointer to Chapter 16 for the prescriptive path for suspended acoustical tile and lay-in panel ceiling systems in structures assigned to Seismic Design Categories C, D, E and F. (See Section 1613.1.1)	**Retain ORA**	—
CHAPTER 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS				
9-1	901.1 – 901.2	**Scope, Fire protection system shop drawings and Fire protection systems.** ORA Revises and rearranges to add scoping language that clarifies post-occupancy maintenance or testing interval requirements in alignment with statutory authority. Adds a section regarding shop drawings.	**Retain ORA**	—
9-2	901.3	**Modifications.** ORA Prohibits repair of any fire protection or life safety system without BO approval.	**Retain ORA**	—
9-3	901.6.1, 901.6.2	**Automatic sprinkler systems and Fire alarm systems.** ORA Revises exception by replacing "protecting one- and two-family dwellings" to "installed in accordance with OSSC Section 903.3.1.3" to clarify that the 13D standard does not cover or require supervision or monitoring.	**Retain ORA**	—
9-4	902.1.3	**Environment.** ORA Adds pump and riser rooms heated for freeze protection provisions	**Retain ORA**	—
9-5	903.2.2	**Group B and Laboratories involving testing, research and development.** IBC F66-21: Added charging provisions for automatic sprinklers in Group B. 903.2.2.2: Added requirements for automatic sprinkler system throughout the fire areas utilized for the research and development or testing of lithium-ion or lithium metal batteries.	**Approve IBC**	*No fiscal
9-6	903.2.4	**Group F-1.** IBC F66-21: Added two conditions for manufacture lithium-ion or lithium metal batteries, and vehicles, energy storage systems or equipment containing lithium-ion or lithium metal batteries where the batteries are installed as part of the manufacturing process.	**Approve IBC**	*No fiscal
9-7	903.2.4.2	**Group F-1 distilled spirits.** ORA Aligns with Section 903.2.9.3 by adding "or wine." (2022)	**Retain ORA**	—
*	903.2.4.4	**Combustible waste sorting and transfer.** IFC/IBC 2027 ICC proposal F99-24: Add a section to address combustible waste sorting and transfer fire hazards. **ICC: Cost increase - This will increase the cost of construction for a small waste transfer and sorting facility, however, because of volume of trash needing sorting the typical facility already crosses the base F-1 12,000 square foot threshold. As a result, that cost impact is minimal if at all in today's waste handling operations world.*	**Approve New ORA**	*Cost increase
9-8	903.2.7.3	**Lithium-ion or lithium metal battery storage.** IBC F66-21: Added a section regarding automatic sprinkler system in a room or space within a Group M occupancy where required for the storage of lithium-ion or lithium metal batteries.	**Approve IBC**	*No fiscal
9-9	903.2.8.3	**Care facilities.** ORA Removes "with five or fewer individuals" in alignment with ORSC. Providing additional flexibility for care facilities under current Oregon licensing which are permitted to have up to 16 individuals receiving care in a dwelling. (2022) COMM *Committee recommended rescinding the existing ORA and then removing the section as it is no longer necessary.*	**Rescind ORA** **Approve New ORA**	*No fiscal
9-10	903.2.9 903.2.9.1	**Group S-1 & Repair Garages.** IBC F66-21: Added a condition for the storage of lithium-ion or lithium metal powered vehicles where the *fire area* exceeds 500 ft^2.	**Approve IBC**	*No fiscal
9-11	903.2.11.7	**Piers or wharves.** ORA Adds provisions for piers and wharves attached to or supporting a superstructure.	**Retain ORA**	—
9-12	903.3.1.1.3	**Lithium-ion or lithium metal batteries.** IBC F71-21: Added provisions for areas containing lithium-ion or lithium metal batteries.	**Approve IBC**	*Cost increase
		IFC/IBC 2027 ICC proposal F111-24: Provides for use of the information available provided a report prepared by a registered design professional with expertise in fire protection engineering is submitted for review and approval. Adds a table indicating the section references for the automatic sprinkler systems in required areas. ***ICC:** Cost decrease* COMM *Approved the addition of the section and approved the IFC 2027 proposal.*	**Approve new ORA/IFC**	*Cost decrease

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
9-13	903.3.1.2.1	**Balconies and decks.** ORA Removes "provided that there is a roof or deck above."	Retain ORA	—
9-14	903.4, 903.4.1, 903.4.3	**Sprinkler system supervision and alarms.** IBC F73-21, F75-21 Part I: 903.4 Created a scoping section. 903.4.1: Electronic supervision and alarms. Moved the exception regarding the backflow prevention device from "Monitoring" to the second exception of this section: "limited area sprinkler systems…," because it primarily relates to the need for electronic supervision, not monitoring by a supervising station or constantly attended location. 903.4.3: Alarms. Added visual alarm devices where audible devices are currently required. clarified that water flow switches required to be electrically supervised have to be powered by a fire alarm control unit or a fire alarm system.	Approve IBC	*No fiscal
		ORA New: 903.4.1 and 903.4.3: Revises exception by replacing "protecting one- and two-family dwellings" to "installed in accordance with OSSC Section 903.3.1.3" to clarify that the 13D standard does not cover or require supervision or monitoring.	Approve New ORA	*No fiscal
9-15	904.14.1	**Manual system operation.** IBC F76-21, F77-21: Added another exception when locating the manual actuation device between 10 - 20 ft from cooking area.	Approve IBC	*No fiscal
9-16	904.15	**Domestic cooking facilities.** ORA Adds "operated by a college or university for student housing" to no 3.	Retain ORA	—
9-17	905.4	**Location of Class I standpipe hose connections.** IBC F81-21: Added "or exterior exit stairway."	Approve IBC	*No fiscal
9-18	907.2.1	**Group A.** IBC F86-21: Added more exceptions addressing a situation not previously anticipated for Group A-5 occupancies, included information contained in ICC 300 that has not previously been introduced and added exemptions for manual fire alarm boxes serving a Group A-5 outdoor bleacher type seating. **ICC: Cost decrease.*	Approve IBC	*Cost decrease
9-19	907.2.2.2	**Laboratories involving research and development or testing.** IBC F88-21: Added a section capturing testing, research and development activities where there can be an increased risk of thermal runaway and where in some cases it is intentionally caused. **ICC: Cost decrease.*	Approve IBC	*Cost decrease
9-20	907.2.4.1	**Manufacturing involving lithium-ion or lithium metal batteries.** IBC F88-21: Added a section capturing the manufacture of the batteries.	Approve IBC	*No fiscal
9-21	907.2.7.2	**Storage of lithium-ion or lithium metal batteries.** IBC F88-21: Added a section with a coordinating pointer where a Group M occupancy would require detection.	Approve IBC	*No fiscal
9-22	907.2.10.2	**Storage of lithium-ion or lithium metal batteries.** IBC F88-21: Added a section with a coordinating pointer where Group S occupancy would require detection.	Approve IBC	*No fiscal
9-23	907.2.11	**Single- and multiple-station smoke alarms.** ORA Section 29.5.10 of NFPA 72 only applies to sleeping rooms of Group R-1 and R-2 where fire alarm system is required.	Retain ORA	—
9-24	907.2.13.2	**Fire department communication system.** ORA Clarifies that where a wired communication system is permitted by the fire official and approved by the building official in lieu of an in-building two-way emergency responder communication coverage system in accordance with Section 918 and includes reference to OSSC Form 918 for documentation.	Retain ORA	—
*	907.2.24	**Combustible waste sorting and transfer.** IFC/IBC 2027 ICC proposal F99-24: Add a section to address combustible waste sorting and transfer fire hazards. **ICC: Cost increase - This will increase the cost of construction for a small waste transfer and sorting facility, however, because of volume of trash needing sorting the typical facility already crosses the base F-1 12,000 square foot threshold. As a result, that cost impact is minimal if at all in today's waste handling operations world.*	Approve New ORA	
9-25	907.5.2.3.2	**Groups I-1, R-1 and R-4.** ORA Adds Group R-4.	Retain ORA	—
PP	907.4.2.5	**Break glass cover.** PP **PP-01:** Public proposal to allow use of break-glass covers for manual fire alarm boxes. COMM *The committee discussed and concluded that break-glass covers for manual fire alarm boxes is permitted in the code and it wouldn't be necessary to include specific language that hasn't been vetted nationally.* *Aug. 27, 2024: Committee video: https://youtu.be/Nf5pyvi1Xbg?si=_JtsOmbvoPFGD3NR&t=11338*	Disapprove PP	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
9-26	907.5.2.3.3	**Group R-2.** ORA Removes future visible alarm notification appliances and requires visual alarms within common and public areas and not within individual dwelling units. Deletes Section 907.5.2.3.3.1, Wired equipment.	**Retain ORA**	—
9-27	909.20.5.4	**Mechanical ventilation alternative.** IBC FS112-21: Eliminated the mechanical ventilation alternative.	**Approve IBC**	*No fiscal
9-28	909.20.5.4	**Smoke detection.** IBC FS115-21: Added a section requiring a smoke detector. Consistent with NFPA 92. **ICC: Cost increase.*	**Approve IBC**	*No fiscal
9-29	912.5	**Signs.** IBC F99-21: Added requirements for fire department connections serving automatic sprinklers, standpipes or fire pump connections. ORA New: Adds clause "unless otherwise required by the fire official."	**Approve IBC as modified**	*No fiscal
9-30	913.2.2	**Circuits supplying fire pumps.** ORA Revises to add an Electrical Code reference for installation and protection of cables used for survivability of circuits supplying fire pump. Revises to not require additional protection for cables, or portions of cables, located within a fire pump room or generator room separated by *fire-resistance-rated* construction.	**Retain ORA**	—
9-31	915, 915.1	**Carbon Monoxide Detection.** IBC F102-21: Reorganized the section to be based on CO source. 915.1: Added an exception for Group S, Group F and Group U occupancies that are not normally occupied.	**Approve IBC as modified by ORA**	*No fiscal
9-32	915.1.1	**Where required.** IBC F102-21: Part of reorganization, removed reference to Group I-1, I-2, I-4, R and E classrooms, addressing this in 915.1. Added locations in buildings where conditions exist: Contain a CO source, contain or supplied with a CO-producing forced-air furnace, have an attached private garage(s), and have a CO-producing vehicle used within the building. ORA Authority/Scope: Adds the statutory requirement that all Group R occupancies require CO detection regardless of the presence of CO sources.	**Approve IBC as modified by ORA**	*No fiscal
9-33	915.2.1	**Dwelling units.** ORA Revises to require CO detection in each bedroom or within 15 feet outside of each bedroom door versus outside of each separate sleeping area in the immediate vicinity of the bedrooms.	**Retain ORA**	—
9-34	915.2.1.1	**Three or more dwelling units.** ORA Adds section indicated where CO detection is required in buildings that contain three or more dwelling units: in all enclosed common areas.	**Retain ORA**	—
9-35	915.2.2	**Sleeping units.** ORA Revises exception to allow CO detection to be installed within 15 feet outside of each separate sleeping area versus outside of each separate sleeping area in the immediate vicinity of the sleeping unit.	**Retain ORA**	—
9-36	915.3.1	**Alarm limitations.** ORA Added an exception allowing for CO alarms where CO detectors are otherwise required and approved.	**Retain ORA**	—
9-37	915.3.3	**Fire alarm systems not required.** ORA New: Delete new section.	**Approve New ORA**	*No fiscal
9-38	915.4.1	**Power source.** ORA Revises to allow battery operated CO alarms, securely fastened plug-in devices installed to MII's, and to require that hardwired and plug-in CO alarms have battery backup.	**Retain ORA**	—
9-39	915.4.3	**Combination alarms.** ORA Adds that smoke alarm features of combination smoke/carbon monoxide alarms shall be interconnected.	**Retain ORA**	—
9-40	915.4.4	**Interconnection.** ORA Clarifies that the requirement applies to newly installed CO alarms.	**Retain ORA**	—
9-41	917.2	**Group E occupancies.** IBC F105-21: Added new section requiring a mass notification risk analysis. IFC/IBC 2027 ICC proposal F151-24: Consolidates the requirements and considers the lockdown requirements in Group E. **ICC: Cost increase for buildings using lockdown as a planned emergency response that are not Group E occupancies.*	**Disapprove IBC** **Approve New ORA**	*Cost increase

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
9-42	918	**General, Emergency Responder Communication Enhancement Systems.** ORA Adds provisions and provides predictable application. • Specifies that the provisions apply to construction components of in-building two-way emergency responder communication coverage shall be provided in all new buildings and adds criteria. • Adds specific exceptions and adds nonrequired systems provisions. • Adds IFC new construction provisions (IFC Section 510). • Adds a section for OSSC Form 918. • Adds survivability provisions and standby power provisions. • Incorporates new model IFC provisions where applicable.	**Retain ORA**	*No fiscal
9-43	919	**Explosion Control.** ORA/IFC Adds a section for IFC new construction provisions. (IFC Section 911)	**Retain ORA**	*No fiscal
CHAPTER 10 MEANS OF EGRESS				
10-1	1006.2.2.2	**Equipment rooms containing boilers.** ORA Adds a section addressing equipment rooms containing boilers.	**Retain ORA**	*No fiscal
10-2	1006.3	**Egress from stories or occupiable roofs.** IBC E17-21, G20-21 Part I: Requires all spaces on a story or an occupied roof to have access to the required number of exits.	**Approve IBC**	*No fiscal
10-3	1006.3.4 909.20.8	**Single exits** PP PP-02 – Proponent summary: Alternative safety measures for small-footprint apartment buildings of 4-6 stories and no more than 20 homes per stairwell. COMM *The committee unanimously voted to disapprove the public proposal.* *Aug. 27, 2024: Committee video: https://youtu.be/wuM9RgPLKr4?si=06fli-HGICU0LAyt&t=8790*	**Disapprove PP**	——
10-4	1010.2.13	**Controlled egress doors in Groups I-1, I-2, R-3 and R-4 facilities providing care.** ORA Adds provisions for R-3 and R-4 facilities providing care. Deletes item no 5 and adds exception no. 3 to item no. 7 exceptions. Revises the maximum number of controlled egress doors a building occupant can required to pass-through from one door to two doors.	**Retain ORA**	——
*	1010.2.14	**Elevator lobby exit access door.** IBC Permits locking of exit access doors in elevator lobbies in certain conditions.	**Approve IBC**	*No fiscal
10-5	1010.4	**Gates.** ORA Adds an exception for horizontal sliding or swinging gates exceeding the 4-foot (1219 mm) maximum leaf width limitation are permitted in fences and walls surrounding a stadium.	**Retain ORA**	——
10-6	1011.11	**Handrails.** ORA Adds an exception for Group R-3 occupancies, decks, patios and walkways that have a change in elevation consisting of a *flight* of stairs with three or fewer risers.	**Retain ORA**	——
10-7	1011.12	**Stairway to roof.** ORA Adds stairway to roof marking requirements and clarifies alternating tread device and ship's ladder exception requirements, removed permanent vertical ladder allowance.	**Retain ORA**	——
10-8	1011.12.2	**Roof access.** ORA Adds an exception in buildings four or more stories above grade plane, the roof hatch or trap door shall be not less than 36 inches in width and 8 feet in length.	**Retain ORA**	——
10-9	1013.7 (New)	**Pictograms.** PP PP-03 – Proponent summary: Allow the internationally-standardized pictogram (symbol) to be used on exit signs, in lieu of or in addition to the word "EXIT". COMM *Committee recommends approving the proposal as modified by making the provisions optional and not in lieu of the current requirements.* *Aug. 27, 2024: Committee video: https://youtu.be/wuM9RgPLKr4?si=UwKGP-HmjvQKbmZP&t=12738*	**Approve PP as modified**	*No fiscal
*	1015.2	**Guards.** COMM *Committee recommends the addition of a sentence to Section 1015.1 pointing to the new Section 1807.2.5 where guards are required to be provided on regulated retaining walls.*	**Approve New ORA**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
*	1015.2	**Guards, where required.** **IBC** G106-21 Part II: Adds provisions for occupiable roofs. **COMM** *Committee recommends approving the IBC changes as modified by deleting "approved" in exception 9.*	**Approve IBC as modified**	*No fiscal
10-10	1015.8	**Window openings.** **ORA** Changes "other surfaces" to "flat surface not less than 36 inches in width."	**Retain ORA**	—
10-11	1017.2.3	**Group H-5 Increase.** **IBC** E86-21: Added a section with Group H-5 increase provisions This section was adopted in the 2022 OSSC.	**Approve IBC**	*No fiscal
10-12	1031.7	**Emergency escape and rescue openings under decks, porches and similar projections.** **ORA** Adds a section for emergency escape and rescue openings under decks, porches, and similar projects. (Alignment with Section R310 of the ORSC)	**Retain ORA**	—
10-13	1031.8	**Emergency escape and rescue openings above lower roof surfaces.** **ORA** Adds a section for above lower roof surfaces. (Alignment with Section R310 of the ORSC)	**Retain ORA**	—
CHAPTER 11 ACCESSIBILITY				
11-1	1102.1.1	**Alternate methods.** **ORA** Adds section for alternate methods and a text box for ORS 447.220.	**Retain ORA**	—
11-2	1102.1.2	**Amendments to ICC A117.1.** **ORA** Modifies ICC A117.1 in accordance with BCD authority and alignment with Oregon-specific requirements. 2017 ICC A117.1.	**Retain ORA**	—
11-3	1103.2.11	**Residential Group R-1 or R-3.** **IBC** E114-21: Added provisions addressing buildings of Group R-3 congregate living facilities (transient) or boarding houses (transient) containing not more than five sleeping units for rent or hire.	**Approve IBC**	*No fiscal
11-4	1103.2.15	**Private membership clubs and churches.** **ORA** Adds section addressing private membership clubs and churches in alignment with statute.	**Retain ORA**	—
11-5	1104.4	**Multistory buildings and facilities.** **ORA** Adds multiple exceptions.	**Retain ORA**	—
11-6	1104.5	**Elevators required.** **ORA** Adds a section addressing requirements for elevators in alignment with statute. Also adds a textbox reprinting ORS 447.247.	**Retain ORA**	—
*	1104.6	**Locations.** **IBC** E115-21: Reorganizes for clarity. Clarifies that the accessible route needs to comply with all three items in the list.	**Approve IBC**	*No fiscal
11-7	1105.1.1	**Power-operated doors at public entrances.** **IBC** E116-21, E118-21, E119-21: Revised the section and added exceptions.	**Approve IBC**	***Slight Cost decrease**
11-8	1106.2 T. 1106.2	**Accessible Parking Spaces on Affected Building Sites.** **ORA** Align with statute: Adds field for the "Required Minimum Number of Van Accessible Spaces" and "Required Minimum Number of Wheelchair User Only Spaces." Park standards have been updated. (2023)	**Retain ORA**	—
11-8a	1106.3 1106.3.1	**Groups R-2, R-3 and R-4.** **IBC** E121-21: Revised to clarify that the required number of parking spaces should result in the greatest number based on the conditions noted.	**Approve IBC**	*No fiscal
11-9	1106.6	**Van spaces.** **ORA** Adds that any space that is designated as van accessible shall be reserved for wheelchair users, where five or more parking spaces are designated accessible in accordance with statute.	**Retain ORA**	—
11-10	1106.7.1	**Parking located beneath a building.** **IBC** E121-21: Added clarification that accessible parking spaces shall be provided beneath the building where parking is provided beneath a building.	**Approve IBC**	*No fiscal
11-12	1106.8	**Surfaces and identification of parking spaces.** **ORA** Adds provisions for surface and identification of parking spaces to align with statute. Park standards have been updated.	**Retain ORA**	—
11-13	1106.10.3	**Group I-2.** **ORA** Adds section for Group I-2 health care occupancies, requiring that at least one accessible entry be under shelter and that every such entry include a passenger loading zone.	**Retain ORA**	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
11-14	**1106.11**	**Electric vehicle charging stations.** **ORA** New: Added a new section addressing electric vehicle charging stations consistent with longstanding guidance.	**Approve New ORA**	*No fiscal
11-15	**1108.5.1.2.1**	**Assisted living and residential care facilities.** **ORA** Requires roll-in-type shower compartments for Group I-1, Condition 2 assisted living facilities and residential care facilities.	**Retain ORA**	—
11-16	**1108.5.1.3**	**Type A units.** **ORA** Requires every dwelling unit or sleeping unit In Group I-1, Condition 2 assisted living facilities and residential care facilities to be a Type A unit provided with bathing facilities.	**Retain ORA**	—
11-17	**1108.5.1.5**	**Bathing facilities.** **ORA** Adds provisions for bathing facilities inside and outside of dwelling or sleeping units in Group I-1, Condition 2.	**Retain ORA**	—
11-18	**1108.5.2.1**	**Accessible units.** **ORA** Allows the folding seat to be omitted for standard roll-in-type shower compartments and the shower controls to be located on the side walls in Group I-2, Condition 1 nursing homes.	**Retain ORA**	—
11-19	**1108.6.1.1**	**Accessible units.** **IBC** E131-21: Added exceptions where all dwelling units and sleeping units contain showers and none contain bathtubs.	**Approve IBC**	*No fiscal
11-20	**1108.6.2.2.1**	**Type A units.** **IBC** E133-21: Added: Where two or more *Type A units* are provided, at least 5 percent but not less than one *Type A unit* shall include a bathroom with a shower complying with ICC A117.1 for *Type A units*.	**Approve IBC**	*No fiscal
11-21	**1108.6.3**	**Group R-3, Accessible units, Type B units.** **IBC** E114-21: Rearranged and revised into three sections.	**Approve IBC**	*No fiscal
11-22	**1108.6.4** **1108.6.4.1** **1108.6.4.2**	**Group R-4, Accessible units, Type A units, and Bathing facilities.** **ORA** 1108.6.4: Adds Type A Units in the charging to account for ORSC 1108.6.4.2 for Type A units. 1108.6.4.1: Revises to require at least 10 percent, but not less than one of the sleeping units in Group R4, Condition 2 to be an accessible unit. Also requires that all Group R-4, Condition 2 assisted living facility and residential care dwelling units and sleeping units be provided with bathing facilities in accordance with Section 1108.6.4.4. 1108.6.4.2: Requires every dwelling unit or sleeping unit In Group R-4, Condition 2 assisted living facility and residential care dwelling units and sleeping units to be a Type A unit provided with bathing facilities.	**Retain ORA**	—
11-23	**1109.2**	**Assembly area seating.** **ORA** Specifies that Lawn seating serving an affected building on an affected building site shall comply with Section 1109.2.6.	**Retain ORA**	—
11-24	**1109.2.9**	**Dining and drinking areas.** **ORA** Removes the exception for dining and drinking areas in a mezzanine.	**Retain ORA**	—
11-25	**1109.2.9.2**	**Structurally integrated bar or counter space.** **ORA** Addresses a bar or counter exceeding 34 inches in height provided for consumption of food or drink. Requires structurally integrated portion.	**Retain ORA**	—
11-26	**1110.3**	**Sinks.** **IBC** E143-21: Added an exception for other than sinks in kitchens and kitchenettes, where a sink requires a deep basin to perform its intended purpose or requires a specialized drain that cannot be located outside of the knee space, a parallel approach shall be permitted to be located adjacent to the sink.	**Approve IBC**	*No fiscal
11-27	**1110.4**	**Adult changing stations.** **IBC** E142-21: Added provisions addressing adult changing stations. **COMM** *Committee recommends the approval of the first sentence requiring adult changing stations to be accessible. This will only apply when adult changing stations are voluntarily provided in a design.*	**Approve IBC as modified**	*No fiscal
11-28	**1110.5**	**Kitchens and kitchenettes.** **IBC** E143-21: Added provisions addressing kitchens and kitchenettes provided in accessible spaces or rooms.	**Approve IBC**	*No fiscal
*****	**1110.6**	**Laundry equipment.** **IBC** E142-21: Added provisions addressing laundry equipment. **ORA** New: Delete section. Outside of state building code scope. Not adopted.	**Disapprove IBC** **Approve New ORA**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
11-29	1110.14	**Seating and standing spaces at dining surfaces and work surfaces.** **IBC** E138-21, E143-21: Added sections addressing accessible dining surfaces and work surfaces.	**Approve IBC**	*No fiscal
11-30	1112.6	**Designations.** **IBC** E145-21: Added a section regarding interior and exterior signs.	**Approve IBC**	*No fiscal
11-31	1113	**Clustered Mailboxes.** **ORA** Adds a section addressing clustered mailboxes based on statute.	**Retain ORA**	—
CHAPTER 12 INTERIOR ENVIRONMENT				
12-1	1202.1	**Ventilation.** **ORA** New: Allows for natural ventilation or mechanical ventilation in accordance with OMSC. Dwelling units in Group R-2, R-3 and R-4 occupancies, and Ambulatory care facilities and Group I-2 occupancies shall be ventilated by mechanical means.	**Approve ORA**	*No fiscal
12-2	1202.4.3	**Mechanical ventilation.** **ORA** Oregon requires Class I vapor retarder regardless of ventilation.	**Retain ORA**	—
12-3	1202.5	**Natural ventilation.** **ORA** New: Refers to Chapter 4 of the OMSC. 1202.5.1 – 1202.5.3 are deleted to be moved to the OMSC.	**Approve New ORA**	*No fiscal
12-4	1206.2, 1206.3	**Airborne sound and Structure-borne sound.** **IBC** G169-21: Added requirement for engineering analysis shall be performed by a *registered design professional*. **ORA** New: Disapprove new IBC and delete new language.	**Disapprove IBC** **Approve New ORA**	*No fiscal
12-5	1208.3, 1208.4	**Dwelling unit size, room area and efficiency dwelling units.** **IBC** G171-21: Added Dwelling unit size minimum requirements: 190 ft^2 of habitable space. Specifies "sleeping units and other habitable rooms of a dwelling unit" for requirements. Added reference requirement for unit's habitable space. **ICC: Cost decrease*	**Approve IBC**	***Cost decrease**
12-6	1210.2.3	**Adult changing table surround.** **IBC** P37-21 Part II: Added requirements for adult changing table surrounds.	**Approve IBC**	*No fiscal
12-7	1210.3	**Privacy.** **ORA** Removes "where" mirrors compromise personal privacy from the requirements.	**Retain ORA**	—
12-8	1210.3.2	**Single-user toilet and bathing rooms.** **ORA** Adds privacy occupied indicator provisions for single-user toilet rooms and bathing rooms.	**Retain ORA**	—
12-9	1210.4	**Fixture clearances.** **ORA** Adds fixture clearance requirement for water closets, bidets and urinals. Plumbing code alignment. Clarifies that fixtures required to be accessible must comply with Chapter 11 and ICC A117.1.	**Retain ORA**	—
12-10	1211.1	**UV germicidal irradiation systems.** **IBC** G173-21: Added section to address UV germicidal irradiation systems. **ICC: Cost increase compared to unlisted products.*	**Approve IBC**	***Cost Increase** (Cost of listed product)
CHAPTER 13 ENERGY EFFICIENCY				
		Refers to the Oregon Energy Efficiency Specialty Code (OEESC)		
CHAPTER 14 EXTERIOR WALLS				
14-1	1402.3.1	**Attachments through exterior insulation.** **IBC** FS2-22: Adds requirements addressing new claddings that do not currently fit into the wall covering materials currently specified.	**Approve IBC**	*No fiscal
14-2	1402.5-1402.8	**Vertical and lateral flame propagation.** **IBC** FS122-21: This change provides reference to all the relevant sections of Chapter 14 and Chapter 26 containing specific requirements for exterior wall assemblies needing testing to NFPA 285.	**Approve IBC**	*No fiscal
14-3	1403.2	**Water-resistive barrier.** **IBC** FS126-21: Revision coordinates Section 1403.2 with IRC R703.2.	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
14-4	1404.3	**Vapor retarders.**		
		IBC FS135-21: Clarifications to align.	**Approve IBC**	*No fiscal
		ORA Removes references to IECC and climate zone provisions for those that do not apply in Oregon. (Zones 1, 2, 3, 6, 7, & 8)	**Retain ORA**	—
		ORA Adds masonry walls with exposed interior surface to the list of exceptions.	**Retain ORA**	—
		ORA Rescinding the addition of exception where exterior continuous rigid insulation is at least 50 percent.	**Rescind ORA**	—
14-5	1404.3.1	**Spray foam plastic insulation for moisture control with Class II and III vapor retarders.** **IBC** FS142-21: Align provisions in the IBC with those in the IRC.	**Approve IBC**	*No fiscal
14-6	1404.4.1	**Fenestration flashing.** **IBC** FS145-21: Revision to clarify the role of fenestration manufacturer instructions.	**Approve IBC**	*No fiscal
14-7	1404.5	**Fastening.** **IBC** FS8-22, FS9-22, FS120-21	**Approve IBC**	*No fiscal
14-8	1404.11.3	**Interior adhered masonry veneers.** **ORA** Adds an exception to the limitation where interior adhered masonry veneer can support its own weight and the lateral load for the interior adhered masonry veneer is provided through the use of an engineered system, the 20 psf.	**Retain ORA**	—
14-9	1404.15.2	**Installation over foam plastic insulating sheathing.** **IBC** FS7-22: Coordinates the IBC with provisions already in the IRC (R703.11.2) and in ASTM D3679 for specification of vinyl siding.	**Approve IBC**	*No fiscal
14-10	1404.18.1, 1404.18.2	**Installation and Fastener Requirements.** **IBC** FS11-22, S9-22: Provides needed supplemental information for polypropylene siding.	**Approve IBC**	*No fiscal
14-11	1404.19, 1404.19.1	**Fiber-mat reinforced cementitious backer units, Installation.** **IBC** FS133-21: Clarify that cement board conforming with the ASTM C1325 standard can be used as a substrate in exterior applications by adding the existing reference contained in Chapter 25 to Chapter 14.	**Approve IBC**	*No fiscal
14-12	1405.1.1	**Types I, II, III and IV-HT construction.** **IBC** FS157-21, FS158-21: Adds exceptions to item 2: combustible exterior wall coverings shall be limited to 40 feet above grade plane	**Approve IBC**	*No fiscal
14-13	1409.1 – 1409.9.1	**Insulated Metal Panel (IMP).** **IBC** FS149-21 Part I: New section addressing insulated metal panels.	**Approve IBC**	*No fiscal
14-14	1412.1 – 1412.7.2	**Soffits and fascias at roof overhangs.** **IBC** FS1-22: New section addressing soffits and fascias at roof overhangs.	**Approve IBC**	*No fiscal
CHAPTER 15 ROOF ASSEMBLIES AND ROOFTOP STRUCTURES				
15-1	1501.1	**Scope.** **ORA** Adds textbox regarding roof fall protection systems.	**Retain ORA**	——
15-2	1502.2 1502.3	**Secondary (emergency overflow) drains or scuppers and gutters.** **ORA** **Authority/Scope:** Deletes sections.	**Retain ORA**	——
15-3	1502.1.1-1502.1.5	**General requirements.** **ORA** Adds a section addressing roof drains. Overflow drains and scuppers, concealed piping and over public property. Align with OPSC.	**Retain ORA**	——
15-4	1503.4	**Attic and rafter ventilation.** **IBC** S5-22: Clarify the attic and enclosed rafter ventilation requirements. The words "... attic and enclosed rafter assemblies... are added to clarify the scoping of the requirement. An exception is added to direct users to Section 1202.3 to the code's provisions unvented attics and unvented enclosed rafters	**Approve IBC**	*No fiscal
15-5	1504.4.4	**Slate shingles.** **IBC** S7-22: Added section to provide guidance regarding the wind resistance of slate roof covings. Added wind resistance testing in accordance with ASTM D3161.	**Approve IBC**	*No fiscal
15-6	1504.8	**Wind resistance of aggregate-surfaced roofs.** **IBC** S11-22, S12-22, S13-22, S14-22, S15-22, S16-22, S17-22: Clarifies treatment of the Table 1504.9 requirements for the special circumstance in which a building roof.	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
15-7	T. 1504.8	**Minimum Required Parapet Height for Aggregate Surfaced Roofs.** **IBC** S11-22, S12-22, S13-22, S14-22, S15-22, S16-22, S17-22: Provides necessary direction for measurement of the parapet height.	**Approve IBC**	*No fiscal
15-8	1505.9	**Rooftop mounted photovoltaic (PV) panel systems.** **ORA** Allows for noncombustible racking and mounting systems or be tested, *listed* and identified with a fire classification in accordance with UL 2703.	**Retain ORA**	——
15-9	1507.8.1	**Deck requirements.** **IBC** S30-22: Consistent with IRC changes.	**Approve IBC**	*No fiscal
15-20	1507.9.1	**Deck requirements.** **IBC** S32-22: Consistent with IRC changes.	**Approve IBC**	*No fiscal
15-21	1507.14.3	**Application.** **IBC** S34-22: Added provisions for liquid-applied roofing installation.	**Approve IBC**	*No fiscal
15-22	1507.16.9	**Flashing.** **IBC** S36-22: Added guidance for flashings for PV shingles and BIPV roof panels to be installed according to the roof covering manufacturer's installation instructions.	**Approve IBC**	*No fiscal
15-23	1507.17.7	**Flashing.** **IBC** S36-22: Added guidance for flashings for PV shingles and BIPV roof panels to be installed according to the roof covering manufacturer's installation instructions.	**Approve IBC**	*No fiscal
15-24	1511.2.4	**Type of construction.** **IBC** S7-21: Requires the exterior walls and roof construction to meet the fire-resistance rating for the type of construction.	**Approve IBC**	***Cost decrease**
15-25	1511.7.6	**Lightning protection systems.** **IBC** S43-22: Clarifies that attachment of LPS to any part of the roof needs to be done in accordance with the installation instructions for the roof assembly, roof covering, metal edge systems, or gutter. **COMM** *Approve new OR A requiring compliance with the Electrical Code and deleting IBC Sections 5111.7.6.1 and 1511.7.6.2.*	**Approve IBC as modified**	*No fiscal
15-26	1511.7.6.1	**IBC** 1511.7.6.1 Installation on metal edge systems or gutters. New OR A deleting section.	**Disapprove IBC**	*No fiscal
15-27	1511.7.6.2	**IBC** 1511.7.6.2 Installation on roof coverings. New OR A deleting section.	**Disapprove IBC**	*No fiscal
15-28	1511.9	**Raised-deck systems installed over a roof assembly.** **IBC** S10-21: Adds requirements addressing raised-deck systems. The code change will increase the cost of construction, for those who decide to install these types of systems. However, this provides clarity on what requirements are to be applied for these installations.	**Approve IBC**	***Cost increase**
15-29	1512.1	**Reroofing, General.** **IBC** S44-22, S45-22: Revised to emphasize the IBC requirement that susceptible bays be analyzed for ponding instability during structural design/loads analyses that are required incidental to the recovering or replacement of existing roof coverings, which adds new live loads to existing roof structures. **ICC: Cost increase.*	**Approve IBC**	***Cost increase**
5-30	1512.2	**Roof replacement.** **IBC** S51-22: Provides specific requirements on acceptable methods for dealing with existing self-adhered membranes during a roof replacement. **ICC: Cost decrease*	**Approve IBC**	***Cost decrease**
5-31	1512.3.1 1512.3.1.1	**Reroofing inspection / Final inspection.** **ORA** Adds reroofing and final inspection provisions.	**Retain ORA**	——
CHAPTER 16 STRUCTURAL DESIGN				
16-1	1603.1.3	**Construction documents (CDs) - Snow load.** **ORA** Removes allowance to omit listing design roof snow load parameters on the *CDs* when the ground snow load is 10 psf or less. ***Rescinding** this amendment based on updates to snow load design provisions.*	**Rescind ORA**	——
		IBC Changed the threshold for providing additional information from “exceeds 10 psf” to “exceeds 15 psf.”	**Approve IBC**	*No fiscal
16-2	1603.1.4	**Construction documents (CDs) – Component and cladding wind zones and pressures.** **ORA** Removes a requirement for the engineer of record to provide wind pressure maps for exterior wall elevations and roof plans of buildings on the *CDs*.	**Retain ORA**	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
16-3	1604.4	**Analysis.** **IBC** S69-22: Adds new language that aligns IBC and ASCE 7-22 structural analysis requirements.	**Approve IBC**	*No fiscal
		ORA Cleaned up a long-standing conflict between ASCE 7 and the IBC regarding structural analysis requirements. ***Rescinding*** *this amendment based on updates in IBC*	**Rescind ORA**	——
16-4	T. 1604.5	**Risk Category of Buildings and Other Structures.** **ORA** Removes "public" from application of "assembly" in first two bulleted items in RC III designation. **PP** **SEAO-01**: Proponent summary: The proposal clarifies how the primary occupancy of a structure is to be determined when determining the risk category of the building. **COMM** *The committee recommends retaining the ORA and approving the public proposal.*	**Retain OR A** **Approve PP**	— *No fiscal
		IBC S72-22, S74-22, S75-22, S76-22, S79-22: All of Group I-2 and Group I-3 except for Group I-3, Condition 1 occupancies have been moved to Risk Category IV. **ICC: 0-2% Cost increase* **COMM** *The committee recommends approving the IBC change.* *Sept. 17, 2024: Committee video: https://youtu.be/kzBFNx836hc?si=r_CPaph-ivzKpDBN&t=141* **Based on industry feedback, more likely 3%-7% Construction Cost Increase for public utility water treatment facilities due to industry manufacturers having to catch up with designated seismic system qualification requirements of ASCE 7 for associated process equipment (e.g. pumps, valves, etc.) that needs to maintain continuous operation.*	**Approve IBC**	*Cost increase
16-5	1604.5.2	**Photovoltaic (PV) panel systems. Risk Category.** **IBC** S81-22: Adds specific risk category designation to various photovoltaic systems and associated support structures that are becoming more common.	**Approve IBC**	*No fiscal
16-6	1605.1	**Load combinations** **ORA** Modifies Exception 4 to clarify and confirm that the newly introduced tornado design provisions, including those in ASCE 7-22, are not applicable in Oregon and are not adopted as part of the OSSC.	**Retain ORA**	—
16-7	1606.4.1	**Solar-ready roofs.** **ORA** Requires solar-ready roofs to include an additional 5 psf dead load over solar-ready zone of roof for the gravity and lateral design of the building.	**Retain ORA**	—
16-8	1607	**Live Loads.** **IBC** S84-22: Updated and reformatted to align with ASCE-22 for clarification; no technical changes	**Approve IBC**	*No fiscal
16-9	T. 1607.1	**Minimum uniformly distributed live loads, L_0, and minimum concentrated live loads** **ORA** Clarifications: Adds "mechanical rooms, and elevated platforms" to Item 6, Moves a comma in Item 31, adds "except for one- and two-family dwellings" for Item 34, and adds Item 39.	**Retain ORA**	—
		PP **SEAO-02**: This proposal adds a category and uniform live load in Table 1607.1 under the Office Buildings heading. **COMM** *The committee recommends approving the proposal as modified by aligning with the existing defined term: public use.*	**Approve PP as modified**	*No fiscal
16-10	1607.14.2	**Occupiable roofs.** **ORA** Corrects model code discrepancy; Table 1607.1 Footnote a prohibits live load reduction for occupied roofs used for assembly purposes.	**Retain ORA**	—
16-11	1608	**Snow Load Modifications to ASCE 7.** **IBC** S116-22: Aligns with ASCE 7-22, which includes new site-specific, reliability-targeted, ground snow loads based on 30 years of additional weather station data since the last ASCE snow load study. The new, reliability-targeted ground snow loads account for climatic differences whereas the prior, 50-year mean recurrence interval approach did not, resulting overestimated design snow loads in some regions and underestimated in others. This changes the ground snow load to a strength level load and is based on risk category, which eliminates the prior snow importance factors. Accordingly, this resulted in necessary changes to the LRFD and ASD load combinations for snow loads in ASCE 7-22 (snow load factors went from 1.6 went to 1.0 for LRFD, and 1.0 went to 0.7 for ASD).	**Approve IBC as modified**	*No fiscal
		ORA Requires use of historic SEAO Snow Load Analysis for Oregon, associated electronic map for site-specific ground snow load determination, and sets a unique, minimum roof snow load threshold. ***Rescinding*** *this amendment and aligning with model code*	**Rescind ORA**	—
		ORA New: Aligns 2025 OSSC with model code and ASCE 7-22, but carves out all of the ground snow load maps and tables unrelated to Oregon and provides a direct pointer for the code user to access the ASCE Design Ground Snow Load Geodatabase (via ASCE 7 Hazard Tool: https://ascehazardtool.org/) to ensure consistent, predictable outcomes for site-specific ground snow load determination.	**Approve New ORA**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
16-12	1609.1.1	**Determination of wind loads.** ORA Clarifies that the basic wind speeds for flagpole and antenna tower designs in Exceptions 4 and 5 need to be obtained from the OSSC and not the referenced standards and clarifies the code path for wind tunnel test requirements in Exception 6.	**Retain ORA**	—
		IBC S9-22, S62-22, S116-22: Adds Exc. 7, which points to newly added design provisions for Temporary Structures in Chapter 31.	**Approve IBC**	*No fiscal
16-13	1609.2	**Protection of openings.** ORA Not adopted since not applicable in Oregon (not a hurricane prone region).	**Retain ORA**	—
16-14	1609.3	**Basic design wind speed.** ORA Removes nonapplicable model code language and points to Oregon specific criteria.	**Retain ORA**	—
		PP SEAO-03–Proponent summary: This proposal incorporates the special wind region study that was completed in 2023 and adopted as an interim amendment by the state and points user to ASCE Wind Geodatabase for nonspecial wind region wind speeds.	**Approve PP**	*Slight decrease
16-15	F. 1609.3	**Oregon special wind regions.** ORA Adds Oregon-specific figure showing the special wind regions in Oregon.	**Retain ORA**	—
16-16	T. 1609.3	**Basic design wind speed, V, for Risk Category I, II, III, and IV buildings and other structures.** ORA Adds Oregon-specific table showing the basic design wind speed for each county.	**Rescind ORA**	—
		PP SEAO-03–Proponent summary: Modifies table to only include special wind region wind speeds (Section 1609.3 points user to ASCE Wind Geodatabase for nonspecial wind region wind speeds.	**Approve PP**	*No fiscal
16-17	1609.4.2 1609.4.3	**Exposure category.** ORA Removes duplicate, redundant language between ASCE 7 and the model code by pointing directly to ASCE 7 for surface roughness and exposure category determination.	**Retain ORA**	—
16-18	1609.5	**Tornado loads.** ORA New: States that the newly introduced tornado loads in the IBC and ASCE 7-22 are not applicable in Oregon and are not adopted as part of the OSSC. Deletes Table 1609.5.	**Approve new ORA**	*No fiscal
16-19	1609.8	**Modification to ASCE 7.** ORA Clarifies the peer review requirements for wind tunnel tests.	**Retain ORA**	—
16-20	1610.1	**Lateral pressures.** ORA Explicitly requires/addresses an increase in lateral pressure where a retaining wall supports an ascending backfill slope.	**Retain ORA**	—
16-21	1611.1	**Design rain loads.** IBC Requires 15-minute design storm rainfall data for 100-, 200-, and 500-year return period depending on building risk category. ORA New: Retains 2022 OSSC language for design storm criteria since NOAA has not provided the 15-minute duration storm data based on 100-, 200-, and 500-year return periods for Oregon yet; BCD has contacted them and they've shared that they will be working on it over the next several years.	**Approve IBC as modified by New ORA**	*No fiscal
16-22	F. 1611.1	**100-year, 1-hour rainfall.** ORA Replaces IBC figure with Oregon-only figure for clarification	**Retain ORA**	—
16-23	1612	**Flood loads.** ORA Aligns the provisions with Oregon rule/statute related to local flood plain administration.	**Retain ORA**	—
16-24	1613	**Earthquake Loads** IBC References ASCE 7-22, which has introduced a multiperiod (22 instead of 2) response spectrum and additional site classes (8 instead of 6) to enhance the reliability of the seismic design parameters derived from the earthquake design ground motions obtained via the 2018 based USGS Seismic Design Geodatabase. ASCE 7-16 was based on 2014 USGS data. The 2018 geodatabase considers new earthquakes between 2013 and 2017, updated magnitudes from earlier earthquakes, and is based on more advanced modeling.	**Approve IBC as modified**	*No fiscal
16-25	1613.1.1	**Suspended Acoustical Tile or Lay-in Panel Ceilings – seismic design** ORA Provides a more specific code path for the prescriptive seismic design requirements for these systems.	**Retain ORA**	—
16-26	1613.2	**Seismic design category.** ORA New: For accurate and consistent application, and predictable outcomes, requires use of ASCE 7 for project-specific seismic design category determination and removes the option to use the IBC printed national maps, which are not applicable to all soil site classes.	**Approve New ORA**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
16-27	1613.4	**Photovoltaic panel systems.** ORA 1613.4.2 clarifies that the mass of nonballasted PV systems (structurally attached to roof) need to be accounted for in the seismic design of the building. 1613.4.3 points to Section 3111.4 for inclusion of collateral dead load on roofs required to be provided with a solar-ready zone.	**Retain ORA**	—
16-28	1613.4.1	**Ballasted photovoltaic panel systems.** PP SEAO-04– Proponent summary: This proposal updates and requires that ALL the requirements from ASCE 7 chapter 13 for Ballasted Solar systems be met and not just sliding.	**Approve PP**	*No fiscal
16-29	1613.7	**Modification to ASCE 7** **ORA Rescinding based on updates in ASCE 7-22** • **Table 12.2-1, Item G.2 Footnote.** Replaces Item G.2 footnote l callout with a new footnote r to provide correct scoping limitations for use of steel ordinary cantilever columns as seismic force resisting systems in seismic design categories D, E and F for penthouses and single-story buildings. • **Table 12.2-1, Footnote j.** Amends footnote j to clarify the scoping limitations for use of steel ordinary concentrically braced frames as seismic force resisting systems in seismic design categories D, E and F for penthouses and single-story buildings. • **Section 12.2.3.2, Item e.** For application of the two-stage analysis procedure, a sentence was added to item e to clarify that compliance with Table 12.6-1 is based on the height of the upper and lower portion of the structures analyzed independently. • **Section 12.2.5.6.** Adds modifications to ASCE 7, Section 12.2.5.6 for steel ordinary moment frame seismic force resisting systems to address penthouses. • **Section 12.2.5.7.** Adds modifications to ASCE 7, Section 12.2.5.7 for steel intermediate moment frame seismic force resisting systems to address penthouses. **Section 12.3.3.1.** Adds modifications to ASCE 7, Section 12.3.3.1 for prohibited horizontal and vertical irregularities for Seismic Design Categories D through F. • **Section 13.5.6.2.2, Item c.** Redundant provision reiterating that suspended ceiling areas of 1,000 square feet or less are exempt from the lateral force bracing requirements of ASTM E580 Section 5.2.8. • **Section 21.3.** Adds modifications to ASCE 7, Section 21.3 for design response spectrum.	**Rescind ORA**	—
16-30	1613.7.1	**Modification to ASCE 7, Section 12.2.5.4.** ORA Adds an exception to the Type 1 horizontal irregularity with a TIR > 1.4 limitation as long as the story drift ratio at the extreme corners of affected diaphragms does not exceed 0.25%. Note: SEAO recommends retaining. Updated to ASCE 7-22.	**Retain ORA**	—
16-31	1613.7.2	**Modification to ASCE 7, Section 12.3.3.4.** ORA Adds “and their connections” to clarify application of the seismic overstrength factor for design of structural elements supporting discontinuous walls or frames.	**Retain ORA**	—
16-32	1613.7.3	**Modification to ASCE 7, Section 12.7.2, Item 1** ORA Adds library stack room live load to the scope of this effective seismic weight provision.	**Retain ORA**	—
16-33	1613.7.4	**Modification to ASCE 7, Section 12.14.8.1, Item 1.** ORA Adds library stack room live load to the scope of this provision.	**Retain ORA**	—
16-34	1613.7.5	**Modification to ASCE 7, Table 13.1-1.** ORA Changes discrete mechanical and electrical component weight trigger from 20 lbs to 75 lbs.	**Retain ORA**	—
16-35	1613.7.6	**Modification to ASCE 7, Section 13.4.5, Exceptions** ORA Replaces the term “distributed systems” with “distribution systems” since distribution systems is a defined term in ASCE 7; to prevent confusion and misapplication.	**Retain ORA**	—
16-36	1613.7.7	**Modification to ASCE 7, Section 15.4.3.** ORA Adds clarifying trigger language for the requirement to include snow and ice loads in the effective seismic weight in seismic designs of nonbuilding structures.	**Retain ORA**	—
16-37	1613.8	**Earthquake recording instrumentation.** ORA Adds provisions capturing the statutory requirements for all new *major structures* in seismic design category D, E or F be outfitted with an approved system for recording actual earthquake data using accelerographs; provides an exception allowing the applicant to pay an equivalent cost to DOGAMI’s Earthquake Recording Instrument Fund.	**Retain ORA**	—
16-38	1615	**Tsunami loads.** ORA Adds requirements for Tsunami loads based on passed legislation (HB 2605).	**Retain ORA**	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
CHAPTER 17 SPECIAL INSPECTIONS AND TESTS				
17-1	**1704.2.5.1**	**Fabricator approval.** **ORA** Adds "by a nationally recognized accrediting authority" for clarification.	**Retain ORA**	—
17-2	**1705.2**	**Steel construction.** **ORA** Retains 2009 IBC provisions and special inspection tables instead of deferring to AISC 360 quality assurance inspection requirements per 2012 through 2024 IBC.	**Retain ORA**	—
17-3	**1705.2.1.1**	**Modifications to AISC 360, Chapter N.** **ORA** Retains 2009 IBC provisions and special inspection tables instead of deferring to AISC 360 quality assurance inspection requirements per 2012 through 2024 IBC.	**Retain ORA**	—
17-4	**1705.2.1.2**	**High strength bolting.** **ORA** Retains 2009 IBC provisions and special inspection tables instead of deferring to AISC 360 quality assurance inspection requirements per 2012 through 2024 IBC.	**Retain ORA**	—
17-5	**T. 1705.2**	**Required verification and inspection of steel construction.** **ORA** Retains 2009 IBC provisions and special inspection tables instead of deferring to AISC 360 quality assurance inspection requirements per 2012 through 2024 IBC.	**Retain ORA**	—
17-6	**1705.2.6**	**Metal building systems.** **IBC** S141-22: New special inspection requirements specific to pre-engineered metal buildings. **ICC: Potential cost increase.* **COMM** *The committee voted to disapprove the new special inspections, while retaining new definition and pointer to all prior applicable special inspection subsections.* **Based on feedback from two Oregon special inspection agencies, cost increase hard to predict since already conducting period special inspections for portions of these structures, but guesstimate is up to $1200 increase for a medium size metal building system.*	**Approve IBC as modified**	*Cost increase
17-7	**1705.3**	**Concrete construction, Exceptions** **ORA** Clarifies that the 2,500 psi concrete strength used in the design calculations, not the strength specified on plans, is the strength being referred to for the exception.	**Retain ORA**	—
17-8	**T. 1705.3**	**Special inspection of concrete construction.** **IBC** Coordinates the special inspection provision for welding reinforcing steel in the IBC with the provisions in ACI 318 by adding continuous special inspection of welding of reinforcement in special moment frames, boundary elements of special structural walls, coupling beams, splices and primary tension reinforcement in corbels. Also changes the special inspections for all other reinforcement welding from continuous to periodic. *ICC slight cost decrease	**Approve IBC**	*Slight cost decrease
		PP **SEAO-05:** Proponent summary: This proposal amends the required special inspections and tests of concrete construction table to include inspection of reinforcement in special moment frames, boundary elements of special structural walls and coupling beams as required by ACI 318-19 Section 26.13.1.3. Cost increase. **COMM** *The committee voted to disapprove the public proposal.* *Sept. 17, 2024: Committee video: https://youtu.be/W8kRIYhJ72o?si=kvAOGXr9BFsl0jh9&t=1668*	**Disapprove PP**	—
17-9	**1705.13.5**	**Architectural components.** **PP** **SEAO-06:** Proponent summary: The amendment is to ensure that periodic special inspections are being provided for those architectural components where relative movement and displacement of that system is critical to the component and connection design, especially for critical structures that are risk category III and IV structures. Cost increase. **COMM** *The committee voted to disapprove the public proposal.* *Sept. 17, 2024: Committee video: https://youtu.be/kzBFNx836hc?si=lXRHmb2zBofGhU1g&t=4267*	**Disapprove PP**	—
17-10	**1705.14.2**	**Nonstructural components.** **ORA** Clarifies the reporting requirements submitted to the building official.	**Retain ORA**	—
17-11	**1705.14.3**	**Designated seismic systems.** **ORA** Clarifies applicability of enforcement to Risk Category III and IV structures and provides flexibility regarding compliance.	**Retain ORA**	—
17-12	**1705.21**	**Radon mitigation inspections.** **ORA** Adds special inspection provisions where radon mitigation systems are required.	**Retain ORA**	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
17-13	1705.22	**Aluminum construction.** **PP** SEAO-07: Proponent summary: This proposal provides text like the steel construction section (2024 IBC 1705.2.1) and references the 2020 Aluminum Association Aluminum Design Manual (AA ADM-2020) cited in chapters 20 and 35 of the IBC. **COMM** *The committee voted to disapprove the public proposal.* *Sept. 17, 2024: Committee video: https://youtu.be/W8kRIYhJ72o?si=ilfcF521rcR1X8qp&t=3898*	**Disapprove PP**	—
CHAPTER 18 SOILS AND FOUNDATIONS				
18-1	1803.3.2	**Site-specific seismic hazard investigation.** **ORA** Adds requirement to investigate and evaluate certain sites for vulnerability to seismic-induced geologic hazards in accordance with ORS 455.447. - Updated to align with ASCE 7-22.	**Retain ORA**	—
18-2	1803.3.2.1	**Design earthquake.** **ORA** Specifies the types of earthquakes required to be evaluated for in the investigation. - Updated to align with ASCE 7-22.	**Retain ORA**	—
18-3	1803.6.1	**Site-specific seismic hazard report.** **ORA** Provides provisions for the site-specific seismic hazard report. - Updated to align with ASCE 7-22.	**Retain ORA**	—
18-4	1803.6.1.1	**Site-specific seismic hazard report review.** **ORA** Provides provisions for the report review process.	**Retain ORA**	—
18-5	1804.8	**Under-floor drainage.** **ORA** Adds provisions for under-floor drainage.	**Retain ORA**	—
18-6	1807.2.5	**Guards.** **IBC** S157-22: Clarifies that guards are required at retaining walls that support elevated walking surfaces (more than 30 inches above adjacent grade).	**Approve IBC**	*No fiscal
18-7	1808.8.5.1	**Grounding of foundation reinforcement.** **ORA** Adds requirement for grounding electrode system.	**Retain ORA**	—
18-8	1809.5	**Frost protection** **ORA** New: Adds table for county frost line depths that aligns with ORSC. **ORA** New: Changes Clackamas County's default frost line depth from 12 to 18 inches; and adds Clackamas and Douglas Counties to footnote b, which reduces the frost line depth to 12 inches at site elevations below 2,500 ft; and adds a new footnote c for Clackamas County, which increases the frost line depth to 24 inches at site elevations above 4,000 ft.	**Approve New ORA**	*No fiscal
18-9	1809.14	**Grade beams.** **IBC** S165-22: Adds grade beam provisions to the shallow foundation sections of the code, which align with ACI 318-19 & ASCE 7-22	**Approve IBC**	*No fiscal
18-10	1810.3.12	**Grade beams.** **IBC** S165-22: Updates the deep foundation grade beam provisions for alignment with ACI 318-19 and ASCE 7-22.	**Approve IBC**	*No fiscal
18-11	1811	**Radon control methods-public buildings.** **ORA** Adds section addressing radon control methods in public buildings.	**Retain ORA**	—
18-12	1812	**Radon control methods-Group R-2 and R-3 occupancies** **ORA** Adds section addressing radon control methods in Group R-2 and R-3 occupancies. **ORA** New: Adjusted language to provide soil-gas collector options consistent with national standards and the ORSC Appendix F	**Retain ORA** **Approve New ORA**	*Cost increase
CHAPTER 19 CONCRETE				
19-1	1901.2.1	**Structural concrete with GFRP reinforcement** **IBC** S174-22: Adds new provision allowing limited use of glass fiber reinforced polymer reinforcement (limited to SDC A and where fire-resistance ratings are not required. References a new ACI standard.	**Disapprove IBC**	—
19-2	1902	**Coordination of terminology.** **IBC** S175-22: Updated to align with ASCE 7-22.	**Approve IBC**	*No fiscal
19-3	1905.1 – 1905.7	**Modifications to ACI 318.** **IBC** Reformatted; instead of modifying ACI 318-19 sections, these provisions are supplemental to those of ACI 318-19, which is intended to be more user-friendly.	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
19-4	1907	**Slabs-on-ground.** IBC S173-22: Added provisions to clarify slab-on-ground requirements for structural vs. non-structural scenarios and for alignment with ACI 318-19.	**Approve IBC**	*No fiscal
CHAPTER 21 MASONRY				
21-1	2101.2	**Design methods.** ORA Clarifies that structural design loads shall be determined in accordance with Chapter 16 instead of referenced masonry design standards.	**Retain ORA**	—
21-2	2101.3	**Special inspection.** ORA Clarifies that the special inspection requirements for masonry are to be in accordance with Chapter 17.	**Retain ORA**	—
21-3	2103.2.4	**Mortar for adhered masonry veneer.** IBC S182-22: Aligns mortar provisions for adhered masonry veneer with updates that have occurred in TMS 402 (2022 OSSC amendment no longer necessary).	**Approve IBC**	*No fiscal
21-4	2104.1.3	**TMS 602, Articles 3.2 F, cleanouts.** ORA Longstanding amendment adds an exception to increase the 5.33 ft grout lift height thresholds for cleanouts where special construction procedures are met.	**Retain ORA**	—
21-5	2107.2.1	**Lap splices.** ORA Longstanding amendment clarifying an upper threshold of 72 bar diameters for required lap splice lengths.	**Retain ORA**	—
21-6	2109	**Empirical design of adobe masonry** IBC S144-22: Although the new TMS 402-22 for design of masonry no longer includes Appendix A for empirical design of adobe masonry, the code is allowing use of Appendix A in TMS 402-16 for these specific designs.	**Approve IBC**	*No fiscal
21-7	2109.2.4.8.2	**Vapor Permeance.** ORA Strikes nonapplicable climates zones.	**Retain ORA**	—
CHAPTER 22 STEEL				
22-1	Chapter 22	**Steel.** IBC S187-22: Modification: A coordinated proposal from steel industry stakeholders that adds updated referenced standards and reorganizes and consolidates Chapter 22 sections for the purpose of providing better flow, usability and clarifications of the steel provisions in the code.	**Approve IBC**	*No fiscal
22-2	2206.3	**Cutting and notching.** IBC S196-22. Addition: New, uniform standards for field modifications to cold-formed steel framing members for consistency and alignment with other I-Codes.	**Approve IBC**	*No fiscal
22-3	2207.2 Item 3 and 2207.4 Item 4	**Steel storage racks.** IBC S194-22. Modification: Replaces “live and total load deflection criteria” with “deflection criteria” to correlate the IBC with the language used in the steel joist and steel joist girder referenced standards to avoid confusion.	**Approve IBC**	*No fiscal
22-4	2208.1	**Steel decks.** IBC S194-22. Modification: Replaces the references to outdated referenced standards to the new, consolidated, consensus referenced standard for all steel decks.	**Approve IBC**	*No fiscal
22-5	2210	**Metal building systems.** IBC S197-22. Addition: New, clarifying provisions and definition for metal building systems (aka pre-engineered metal building), which are uniquely different from other forms of steel construction.	**Approve IBC**	*No fiscal
22-6	2211	**Industrial boltless steel shelving.** IBC S191-22. Addition: New provision and consensus referenced standard for Industrial Boltless Steel Shelving.	**Approve IBC**	*No fiscal
22-7	2212	**Industrial Steel Work Platforms.** IBC S192-22. Addition: New provision and consensus referenced standard for industrial steel work platforms.	**Approve IBC**	*No fiscal
22-8	2213	**Stairs, Ladders and Guarding for Steel Storage Racks and Industrial Steel Work Platforms.** IBC S192-22. Addition: New provision and consensus referenced standard for employee only access ways serving various materials handling structures (aligns with OSHA).	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
CHAPTER 23 WOOD				
23-1	**2301.2**	**Dimensions.** **IBC** S199-22 Modification: Clarifies that in all cases where dimensions of CLT thickness are specified, they shall be deemed to be actual dimensions.	**Approve IBC**	*No fiscal
23-2	**2303.1.4**	**Cross-laminated timber.** **IBC** **S200-22** Modification: Changes the naming convention from Structural glued cross laminated timber to Cross-laminate timber for consistency and alignment with industry and referenced standards naming convention.	**Approve IBC**	*No fiscal
23-3	**2303.2.1**	**Alternate fire testing.** **IBC** **S201-22** Addition: Adds an alternate, equivalent compliance path, which references a new ASTM standard.	**Approve IBC**	*No fiscal
23-4	**2303.2.6**	**Design values.** **IBC** S202-22: Modification: Clarifies that design values for fire-retardant wood requires adjustment factors applicable to untreated wood in addition to the fire-retardant treatment adjustment factor.	**Approve IBC**	*No fiscal
23-5	**2303.2.6.3**	**Fire-retardant-treated laminated veneer lumber.** **IBC** S203-22: Addition: Adds provisions for manufacturers to comply with a new consensus referenced standard for development of design values for fire-retardant-treated laminated veneer lumber.	**Approve IBC**	*No fiscal
23-6	**T. 2304.6.1**	**Max Basic Design Wind Speed for WSP to resist wind.** **IBC** S207-22: Adds tighter nail spacing requirement where framing into wood species with specific gravity less than 0.42 (doesn't affect doug-fir-larch or hem-fir framing) to meet NDS nail withdrawal capacities for the design wind loads.	**Approve IBC**	*No fiscal
CHAPTER 25 GYPSUM PANEL PRODUCTS AND PLASTER				
25-1	**T. 2508.6**	**Shear Capacity for Horizontal Wood-Frame Gypsum Panel Product Diaphragm Ceiling Assemblies.** **ORA** Adds to fn (c) allowing for $1^5/_8$-inch, No. 6 Type S or W screws to be substituted for the listed nails where the material thickness is $^5/_8$-inch.	**Retain ORA**	—
25-2	**2510.6**	**Water-resistive barriers and Dry climates.** **IBC** S240-22: 2510.6: Added an exception. And 2510.6.1: Added that flashing installed in accordance with Section 1404.4 and intended to drain to the water-resistive barrier shall be directed to the exterior side of the water-resistive barrier. **ICC: Cost increase for stucco assemblies containing nonwood materials.*	**Approve IBC**	***Cost increase**
CHAPTER 26 PLASTIC				
26-1	**2603.1.2**	**Insulating sheathing.** **IBC** FS152-21: Added foam plastic insulating sheathing provisions.	**Approve IBC**	*No fiscal
26-2	**2603.4.1.15**	**Separately controlled climate structures.** **IBC** FS153-21: Added section addressing separately controlled climate structures.	**Approve IBC**	*No fiscal
CHAPTER 27 ELECTRICAL				
27-1	**2703.1, 2703.2, 2703.2.1**	**Lightning protection systems.** **IBC** G176-21: 2703.1: Added new section addressing lightning protection systems. 2703.2: Added new installation provisions for lightning protection systems. 2703.2.1: Added new surge protection provisions for lightning protection systems. **ORA** New amendment: Delete section	**Disapprove IBC Approve New ORA**	*No fiscal
27-2	**2703.1**	**Electrical room marking.** **ORA/IFC** IFC new construction provisions. (F 603.4.1)	**Retain ORA/IFC**	—
CHAPTER 28 MECHANICAL SYSTEMS				
28-1	**2802.1 – 2802.7**	**Fuel oil storage systems.** **ORA/IFC** Adds a section for IFC new construction provisions. (F 605.4 and F 608)	**Retain ORA/IFC**	—
CHAPTER 29 PLUMBING SYSTEMS				
29-1	**2902.1**	**Minimum number of fixtures.** **ORA** Requires that uses not specifically listed shown in Table 2902.1 shall be considered individually by the building official code official and shall reflect the use of the space being served by the fixtures.	**Retain ORA**	—

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
29-2	T. 2902.1	**Minimum Number of Required Plumbing Fixtures.** **ORA** Modifies the drinking fountain requirements, Adds values for places of worship and other religious services without fixed seating, changes "single-occupant" to "single-user," indicates that (Urinals may replace water closets at a ratio of 1 urinal per $^{2}/_{3}$ water closet), adds footnotes to allow a reduction in the number of plumbing fixtures in apartment buildings that are for spaces outside of the dwelling units, and deletes fn (e) and (f). **COMM** *Committee added another footnote for water closets: fn (g) Where separate facilities are provided for each sex, urinals may be substituted for up to 67 percent of the required water closets for males in each male bathroom or toilet room.*	**Retain ORA Approve New ORA**	*No fiscal
29-3	2902.1.2	**Fixtures in single-user toilet facilities and bathing rooms.** **IBC** P25-21, P28-21: Added that the number of fixtures in single-user toilet facilities, single-user bathing rooms and family or assisted-use toilet facilities shall be deducted proportionately from the required gender ratios of Table 2902.1.	**Approve IBC**	*No fiscal
29-4	2902.1.3	**Lavatory distribution.** **IBC** P28-21: Modified to specify male- and female-designated water closets.	**Approve IBC**	*No fiscal
29-5	2902.2	**Separate facilities.** **ORA** Modifies the exception for structures or tenant spaces to apply where the occupant load, including employees and customers, is 30 or fewer, rather than 15 or fewer, and to allow one single-user toilet room. Modifies the exception for business occupancies to apply where the occupant load, including employees and customers, is 50 or fewer, rather than 20 or fewer, and to allow one single-user toilet room. Adds an exception where the operational needs of a facility necessitate other approved configurations. **COMM** 2027 ICC proposal P25-24: Simplifies the requirements; All gender toilet rooms or toilet rooms for each sex. *The committee reviewed the existing amendments and a 2027 ICC proposal, and approved the changes from the proposal as modified by retaining the one single-user toilet room allowances as a separate section: Section 2902.2.1*	**Approve New ORA**	*No fiscal
29-6	2902.3	**Employee and public toilet facilities.** **ORA** Adds non-customarily occupied structures with public access, where approved by the building official, to the exemptions for where public toilet facilities are required.	**Retain ORA**	—
29-7	2902.3.3	**Location of toilet facilities in occupancies other than malls.** **ORA** Adds exception for Group B (other than restaurants and dining…), F, H, M and S occupancies to have facilities located in an adjacent facility on the same property where the path of travel to such facilities is an accessible route and does not exceed a distance of 300 feet.	**Retain ORA**	—
29-8	2902.3.6	**Door locking.** **IBC** P28-21: Added exceptions.	**Approve IBC**	*No fiscal
29-9	2902.4	**Signage.** **IBC** Revised to clarify application requirements for signs.	**Approve IBC**	*No fiscal
29-10	2902.5 - 2903	**Drinking fountain location, small occupancies, service sink location, and Installation of fixture.** **ORA** Authority/Scope: Deletes sections.	**Retain ORA**	—
CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS				
30-1	3001.6	**Structural design.** **IBC** S122-22: Added clarifying section showing which design criteria and standards apply to elevators, escalators, conveying systems and their components and that the provisions are applicable to both interior and exterior systems. **ORA** New: Clarify the requirements are in accordance with the Elevator Code.	**Approve IBC as modified**	*No fiscal
30-2	3006.3	**Elevator hoistway door protection.** **IBC** G180-21, G183-21 Part I, G185-21: Added another protection item: smoke-protective curtain assembly.	**Approve IBC**	*No fiscal
30-3	3006.4	**Means of egress.** **IBC** E56-21: Adds that electrically locked exit access doors providing egress from elevator lobbies shall be permitted in accordance with Section 1010.2.14.	**Approve IBC**	*No fiscal
30-4	3009	**Private residence elevators.** **IBC** G188-21: Added provisions for private residence elevators.	**Approve IBC**	*No fiscal

No.	Section	Summary	Committee recommendation	Committee Fiscal impact
CHAPTER 31 SPECIAL CONSTRUCTION				
31-1	**3101.1**	**Scope.** **ORA** **Authority/alignment:** Clarifies that provisions only apply to regulated buildings. Clarifies application to swimming pool enclosures and barriers. Points to Section 101.2 for scope of regulation.	**Retain ORA**	—
31-2	**3103**	**Temporary structures, General.** **IBC** S116-22: Added provisions addressing load and design requirements for temporary structures. | *ICC proponent: Temporary structures occupied by the general public are expected to have the same level of reliability (or failure rate) and performance as permanent structures. | First of two efforts to address the need for provisions for loads on temporary structures. The second effort includes development of a new Appendix to ASCE 7 to address temporary structures. | Three new definitions are added for public-occupancy temporary structures, service life, and temporary event. | *ICC: Cost decrease. **ORA** Authority/alignment: Revises section to align with building code authority and new construction fire code provisions.	**Approve as modified**	*No fiscal
		PP **SEAO-08/SEAO-09**: Proponent summary: Amends section 3103 of IBC 2024 to require that ALL temporary structures that require a permit be allowed to be designed for structural loading prescribed by the new public occupancy temporary structure provisions.. **COMM** *The committee recommends the disapproval of the SEAO proposal and approve the modifications proposed by BCD that include some of the changes in the SEAO proposal.*	**Disapprove PP**	—
		ORA/IFC Temporary Special Event Structures. IFC new construction provisions. (F 3105)	**Retain ORA/IFC**	—
31-3	**3107.1**	**Signs, General.** **ORA** Authority/alignment: Clarifies that provisions only apply to regulated signs. Removes maintenance.	**Retain ORA**	—
31-4	**3108.1**	**Towers, General.** **ORA** Authority/alignment: Clarifies that provisions only apply to regulated towers.	**Retain ORA**	—
31-5	**3109.1**	**Swimming pools, General.** **ORA** Authority/Alignment: Clarifies scope to barriers for residential swimming pools accessory to 4 or fewer dwelling units. And refers to OAR 333.060 for public swimming pools.	**Retain ORA**	—
31-6	**3111.1**	**Solar energy systems, General.** **ORA** Rescinding the provisions for PV systems in detached one- and two-family dwellings and townhouses throughout Section 3111. **ORA** Adds the allowance for the use of the applicable provisions of the ORSC for detached one- and two-family dwelling and townhouse Group R-3 or Group U occupancies.	**Rescind ORA** **Retain ORA**	— —
31-7	**3111.3**	**Photovoltaic solar energy systems.** **ORA** Oregon-specific PV system provisions.	**Retain ORA**	—
31-8	**IBC 3111.3.6**	**Ground-mounted photovoltaic (PV) panel systems.** **ORA** Authority/alignment: Deletes sections.	**Retain ORA**	—
31-9	**3111.3.6**	**Elevated photovoltaic (PV) support structures.** **IBC** G193-21: Added section for elevated PV support structures.	**Approve IBC**	*No fiscal
31-10	**3111.4 – 3111.4.9**	**Solar-ready.** **ORA** Oregon-specific solar-ready provisions.	**Retain ORA**	—
31-11	**3114.1**	**Intermodal shipping containers, General.** **ORA** Authority/alignment: Deletes exception regarding Intermodal shipping containers previously approved as existing relocatable buildings. Deletes exception regarding hurricane-prone regions and flood hazard areas.	**Retain ORA**	—
CHAPTER 32 ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY				
32-1	**32**	The requirements of Chapter 32 are not adopted by the State of Oregon, Building Codes Division, as part of this code.		—
CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION				
33-1	**3301.1**	**ORA** **Scope.** Adds a text box for occupied and existing structures under state law related to building inspection programs. Deletes rest of entire section.	**Retain ORA**	—
33-2	**3302**	**ORA** **Owner's Responsibility for Fire Protection.** Not adopted. Deletes entire section.	**Retain ORA**	—
33-3	**3303**	**ORA** **Demolition.** Not adopted. Deletes entire section.	**Retain ORA**	—

No.	Section	Summary		Committee recommendation	Committee Fiscal impact
33-4	3305	ORA **Sanitary.** Not adopted. Deletes entire section.		Retain ORA	—
33-5	3306	ORA **Protection of Pedestrian.** Not adopted. Deletes entire section.		Retain ORA	—
33-6	3307	ORA **Protection of Adjacent Property.** Not adopted. Deletes entire section.		Retain ORA	—
33-7	3308	ORA **Temporary Use of Streets, Alleys and Public Property.** Not adopted. Deletes entire section.		Retain ORA	—
33-8	3309	ORA **Fire Extinguishers.** Not adopted. Deletes entire section.		Retain ORA	—
33-9	3310.1	ORA **Stairways required.** Specifies "required" fire department vehicle access.		Retain ORA	—
33-10	3310.2	ORA **Maintenance of means of egress.** Removes "demolition."		Retain ORA	—
33-11	3311	ORA **Standpipes.** Adds a textbox indicating that only the installation and construction standards for standpipe hose connections are adopted and that standpipe hose connection locations shall be determined by the fire official. The rest of the section is deleted.		Retain ORA	—
33-12	3313	ORA **Water Supply for Fire Protections.** Not adopted. Deletes entire section.		Retain ORA	—
33-13	3314	ORA **Fire Watch During Construction.** Not adopted. Deletes entire section.		Retain ORA	—
CHAPTER 34 EXISTING BUILDINGS					
34-1	34	**Existing buildings.** ORA Amends the International Existing Building Code to be integrated into the Building Code. The majority of the amendments are editorial and made to align with Oregon-specific requirements.		Retain ORA	—
*	3405.3.4	**Existing structural elements carrying lateral load.** PP **SEAO-10:** Proponent summary: Adopt the IEBC language. / Also in Sections 3408.5.3 and 3411.3.2.		Approve PP	*No fiscal
34-2	3405.2.5	**Smoke Barriers in Group I-1, Condition 2.** IEBC EB56-22: Adds section addressing smoke barriers in existing Group I-1, Condition 2. **ICC proponent: Minimal cost increase.*		Approve IBC	*Cost increase
34-3	3410.11.2.1.1	**Automatic sprinkler system.** IEBC EB97-22: Allows for nonrequired systems to be removed.		Approve IBC	*No fiscal
APPENDICES					
1	App A	**Employee Qualifications**	Not adopted / Outside the statutory authority	Retain ORA	—
2	App B	**Board of Appeals**	Not adopted / Preempted by the code	Retain ORA	—
3	App C	**Group U-Agricultural Bldgs.**	Adopted / Revised to align with statutes	Retain ORA	—
4	App D	**Fire Districts**	Not adopted / Outside the statutory authority	Retain ORA	—
5	App E	**Supp. Accessibility Req.**	Not adopted / Preempted by the code	Retain ORA	—
6	App F	**Rodentproofing.**	Not adopted	Retain ORA	—
7	App G	**Flood-resistant Construction.**	Not adopted / Outside the statutory authority	Retain ORA	—
8	App H	**Signs.**	Not adopted	Retain ORA	—
9	App I	**Patio covers.**	Adopted	Retain ORA	—
10	App J	**Grading.**	Not adopted / Outside the statutory authority	Retain ORA	—
11	App K	**Administrative Provisions.**	Not adopted / Preempted by the code	Retain ORA	—
12	App L	**Earthquake Recording Inst.**	Not adopted / Preempted by the code	Retain ORA	—
13	App M	**Tsunami-generated Flood Hazards.**	Not adopted / Preempted by the code	Retain ORA	—
14	App N	**Replicable Bldgs.**	Not adopted / Preempted by the code	Retain ORA	—
15	App O	**Performance-based Application.**	Adopted / Revised to align with Chapter 1.	Retain ORA	—
16	App P	**Sleeping Lofts.**	New: Not adopting / Preempted by the code	Disapprove IBC Approve New ORA	*No fiscal
STATEWIDE ALTERNATE METHODS					
1	24-04	**Reinforced concrete ductile coupled walls.**		Rescind	—
2	24-03	**Multi-period response spectrum**		Rescind	—
3	17-01	**2010 ADA standards-Baseline for Alternate Methods/Equivalent Facilitation/Alternations**		Retain/Update	—
4	15-01	**Cross-laminated timber provisions**		Retain/Update	—
5	07-01	**Child care in type "M" occupancies**		Retain/Update	—

2025 Oregon Mechanical Specialty Code

Code review committee matrix

This matrix is a summary of the code review committee's recommendation to the Mechanical Board for the adoption of the 2025 OMSC.

Abbreviations:

ORA	Existing/New Oregon amendment	**SAM**	Statewide Alternate Method
IMC	International Mechanical Code change	**COMM**	Committee discussion
IFGC	International Fuel Gas Code change	***ICC**	Fiscal impact reported by the original ICC proponent

Section	Topic / Summary of changes		Outcome	Fiscal
CHAPTER 2	**DEFINITIONS**			
All	**All defined terms.**			
	ORA	Aligned with existing Oregon amendments.	**Retain ORA**	—
CHAPTER 3	**GENERAL REGULATION**			
306.5	**ORA**	Existing amendments: Clarifies item 10 that "access paths to ladders and ladder landings shall remain unobstructed at all times." Adds an exception for the replacement, repair or maintenance of an existing appliance or piece of equipment lawfully.	**Retain ORA**	—
	IMC	M13-21, M14-21: Alignment with 2018 OSHA. **ICC: Potential cost increases as some of the dimensions have increased such as side rail height etc.*	**Approve IMC**	*No fiscal
307.2.1	**Condensate disposal.**			
	ORA	Existing amendments: Adds three possible approved places of disposal.	**Retain ORA**	—
307.4	**Condensate drain subject to freezing.**			
	ORA	New amendment: Add a section for condensate drains from cooling/evaporator coils that operate year-round and can produce condensate in winter (subject to freezing).	**Approve New ORA**	*No fiscal
CHAPTER 4	**VENTILATION**			
401.2	**Ventilation required.**			
	ORA	Rescind: OMSC pointed to OSSC for natural ventilation. Now, the OSSC will reference the OMSC for requirements. Rescind: The OMSC previously removed the sentence regarding dwelling units. New amendment: Adopt ventilation in dwelling unit requirement, but remove reference to Energy Code and ASHRAE 90.1, it is not necessary. Existing amendment: Note pointing to OEESC for heating and air-conditioning controls.	**Rescind OR A** **Rescind ORA** **Approve New ORA** **Retain ORA**	*No fiscal
402	**Natural ventilation.**			
	ORA	Rescind: The OMSC pointed to the OSSC for natural ventilation in the past. Now, the OSSC will reference the OMSC for requirements, so the previous note not adopting Section 402 is rescinded. IMC Sections 402.1 – 402.4 are adopted.	**Rescind ORA** **Adopt IMC**	*No fiscal
403	**Mechanical ventilation.**			
	ORA	New and existing amendments: • 403.2.2 Transfer air: Retaining existing amendments • 403.3 Outdoor air and local exhaust airflow rates: IMC removed reference to "three stories and less in height above grade-plane and sends all Group R-2, R-3 and R-4 occupancies to 403.3.2. • Table 403.3.1.1 Minimum Ventilation Rates Existing ORA - FN (g) replaces "For occupancies other than science labs" and adding "for environmental air exhaust." Adds FN (n) and (m) for toilet rooms and bathrooms in private dwellings, single and multiple. M20-21, M21-21, M22-21: Added adult changing station. Updated ventilation rate to ASHRAE Standard 62.1-2019. • 403.3.2.1 Outdoor air for dwellings units: M19-21 Revised the equation from including $0.01A_{floor}$ to $0.03A_{floor}$ BCD recommends changing it to $0.02A_{floor}$ • Table 403.3.2.3 Minimum Required Local Exhaust Rates for Group R-2, R-3 and R-4 occupancies: BCD recommends adding the FN from Table 403.3.1.1 regarding All rooms containing bathing or residential spa facilities with intermittent exhaust shall be provided with a mechanical ventilation system controlled by a dehumidistat, timer or similar means of automatic control.	**Approve IMC as modified by ORA**	*No fiscal
407.1	**Ambulatory Care facilities and Group I-2 Occupancies.**			
	ORA	Existing amendments: Oregon modifies to align with OAR 333 and licensure requirements of OHA.	**Retain ORA**	—

Section	Topic / Summary of changes		Outcome	Fiscal
404.1	**Enclosed parking garages.**			
	ORA	Existing amendments: Oregon references the Energy Code and deleted item no. 1.	**Retain ORA**	—
CHAPTER 5	**EXHAUST SYSTEMS**			
501.3.1	**Location of exhaust outlets.**			
	IMC	M16-21, M28-21: Factory-built intake/exhaust combination termination fittings are regularly provided by manufacturers and installed by builders to separate mechanical air intakes from mechanical exhaust serving dwelling unit or sleeping unit mechanical ventilation systems. Special approval should not be required for these types of fittings when installed in accordance with the manufacturer installation instructions.	**Approve as modified**	*No fiscal
	COMM	*Committee recommends approving the IMC change as modified by adding an option to use ASHRAE 62.1 Normative Apprendix B.*		
501.6	**Common ducts.**			
	IMC	M29-21 Part I: Added provisions addressing common ducts serving separate dwelling or sleeping units. Exhaust ducts that are under positive pressure cannot be joined because the airflow from one fan will leak out through the fan that is not running, so they shall be connected where maintained at negative pressure. **ICC: Potential code increase only where the cost of an additional roof, wall or soffit penetration is more than the cost of larger common ducts, tee and wye fittings, fasteners, sealants and hangers and the extra labor to assemble common duct arrangements. Potential code increase if additional roof or wall penetrations cost more than combined exhaust discharge ducts. Combining ducts into a common duct adds material costs, as does making roof and wall penetrations.*	**Approve IMC**	*Cost increase
504.9.2	**Duct installation.**			
	ORA	Existing amendments: Removes the last sentence regarding screws or similar fasteners in domestic duct installation.	**Retain ORA**	—
504.9.3	**Transition ducts.**			
	ORA	Existing amendments: Removes UL 2158A reference.	**Retain ORA**	—
505.2	**Exhaust ducts for domestic cooking exhaust equipment.**			
	ORA	Existing amendments: Removes exception for natural ventilation.	**Retain ORA**	—
505.6	**Other than Group R.**			
	ORA	Existing amendments: Deletes section to align with 507.1.2.	**Retain ORA**	—
505.7	**Group I-1 occupancies.**			
	IMC	M32-21: New section addressing hood installations over domestic cooking equipment in Group I-1 occupancies. **Note: The code currently allows for this but does not require 500 cfm. Potential cost increase for the 500-cfm requirement.*	**Approve IMC**	*Cost increase
505.8	**Group I-2 occupancies.**			
	IMC	M32-21: New section addressing hood installations over domestic cooking equipment in Group I-2 occupancies. **Note: The code currently allows for this but does not require 500 cfm. Potential cost increase for the 500-cfm requirement.*	**Approve IMC**	*Cost increase
506.3.2.5	**Grease duct test.**			
	IMC	M38-21: Added two new sections with light-test and water-spray test provisions.	**Approve IMC**	*No fiscal
	ORA	Existing amendments: Adds approved equivalent test as an alternative to a light test.	**Retain ORA as modified**	*No fiscal
	COMM	*Retain the ORA as modified by removing "pressure" and adding the "water spray test" as an option.*		
507.1	**Commercial Kitchen Hoods.**			
	IMC	M40-21: Reorganized Section 507 into a logical order of application, while not making any substantive technical changes. M41-21: Revised to allow the Type I hood if it is installed in full compliance with Type I hood installation requirements. M42-21: Revised to clarify the three existing exceptions for Section 507.1 where because of the particular type of product or cooking operation, a hood is not required above the product or cooking operation. M43-21: Added to the exceptions: "Ovens listed and labeled for use with wood fuel in accordance with UL 2162 and vented in accordance with the manufacturer's instructions." M44-21: The exception from 507.2 for electric cooking appliances was moved to the exceptions in Section 507.1 and the UL standard was changed to UL 197. M45-21: Added to the exceptions: "Commercial electric dishwashers incorporating a self-contained condensing system *listed* and *labeled* in accordance with UL 921." M46-21: Where the heat and moisture loads from dishwashers and appliances that produce heat or moisture and do not produce grease or smoke as a result of the cooking process are incorporated into the HVAC system, a Type II hood above is not needed.	**Approve IMC**	*No fiscal
	ORA	New amendment: Revises the new provisions regarding space containing those cooking spaces that do not require Type II hoods to comply with the Oregon-specific exception in Section 507.3.	**Approve New ORA**	*No fiscal

Section	Topic / Summary of changes	Outcome	Fiscal
507.1.2	**Domestic cooking appliances used for commercial purposes.** **ORA** Existing amendments: Adds an exception for alignment.	**Retain ORA**	—
CHAPTER 6	**DUCT SYSTEMS**		
601.5	**Return air openings.** **IMC** M51-21: Revised to clarify the intent of this section without changing its meaning. Section 601.5 establishes requirements for return air for "heating, ventilation, and air-conditioning systems" that shall not be taken from a closet, bathroom, toilet room, kitchen, garage, boiler room, furnace room or unconditioned attic. M53-21: Added further requirements for return air from a closet to mitigate mold growth in closets.	**Approve IMC**	*No fiscal
T. 603.4	**Duct construction minimum sheet metal thickness for single dwelling units.** **ORA** Existing amendments: Oregon retains the 2014 OMSC table.	**Retain ORA**	—
CHAPTER 7	**COMBUSTION AIR**		
No changes were made to Chapter 7.		**N/A**	—
CHAPTER 8	**CHIMNEYS AND VENTS**		
No changes were made to Chapter 8.		**N/A**	—
CHAPTER 9	**SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT**		
907.1	**Incinerators and crematories.** **IMC** FG7-21 Part II: Added listing and label requirements for factory-built cremation furnaces and commercial direct-fed incinerators with UL 2790. Clarified listing and labeling requirements for factory-built incinerators for domestic applications shall be listed and labeled in accordance with UL 791. Clarified installation requirements for incinerators and cremation furnaces in accordance with MII's. **ICC: No fiscal impact.*	**Approve**	*No fiscal
931	**Incinerators and crematories.** **IMC** M62-21: Introduces requirements for steam bath equipment listings, and installation criteria. **ORA** New amendment: Delete section/not under Mechanical Code scope.	**Disapprove IMC**	—
CHAPTER 10	**BOILERS, WATER HEATERS AND PRESSURE VESSELS**		
Chapter 10	**All of the Chapter.** **ORA** Existing amendments: Aligns with Plumbing code and Boiler code.	**Retain ORA**	—
CHAPTER 11	**REFRIGERATION**		
1101	**Technician certification requirements.** **ORA** Add note: Persons engaging in service, repair, or disposal of equipment that could release refrigerants into the atmosphere shall be certified under Environmental Protection Agency Section 608 Technician Certification requirements under 40 CFR Part 82, Subpart F. Section 608 Technician Certification Requirements | US EPA / Technology Transitions | US EPA	**Approve New ORA**	*No fiscal
1101.1.1	**Refrigerants other than ammonia.** **IMC** M69-21: Added "Refrigeration systems containing carbon dioxide as the refrigerant shall also comply with IIAR CO^2."	**Approve IMC**	*No fiscal
1101.7	**Changing refrigerant.** **OR A** **Existing amendments:** Deletes the section regarding changing refrigerant.	**Retain ORA**	—
1103.1	**Refrigeration standards** **SAM** 21-01: Intended to allow use of newer, more environmentally friendly refrigeration methods using the most current refrigerant tech.	**Retain SAM**	—
1104.3.1, 1104.3.2	**Air conditioning for human comfort and Group A2, A3, B2 and B3 refrigerants.** **IMC** M75-21: Added changes in alignment with updated ASHRAE 15. **ICC: No fiscal impact.*	**Approve IMC**	*No fiscal
1105.9	**Machinery room means of egress.** **ORA** Existing amendments: Modify by pointing to the Building Code for provisions regarding machinery rooms larger than 1000 square feet, rather than duplicating the requirements in the OMSC.	**Retain ORA**	—
1108.1.1	**Installer certification.** **ORA** New amendments: Refrigerant piping joints and connections regulated under this code shall be made by persons with valid certification under ASME Section IX or AWS B2.2 for welding or brazing. Installer certification shall be presented to *building official* upon request.	**Approve New ORA**	*No fiscal

Section	Topic / Summary of changes	Outcome	Fiscal
1109.2.5	**Refrigerant pipe shafts.**		
	OR A New amendments: Deletes "using Group AI refrigerant" from the 2nd exception.	**Approve New ORA**	*No fiscal
CHAPTER 12	**HYDRONIC PIPING**		
1201.1	**Scope – Hydronic Piping.**		
	IMC M85-21: Adds radiant heating, radiant cooling, and snow- and ice-melting.	**Approve IMC**	*No fiscal
1209.1	**Materials.**		
	ORA Existing amendments: Oregon modified with added language ", cross-linked polyethylene (PEX) tubing, cross-linked polyethylene/aluminum/ cross-linked polyethylene (PEX-AL-PEX) pressure pipe or polybutylene rated."	**Retain ORA**	*No fiscal
1209.6	**Radiant tubing placement.**		
	IMC M97-21: Added sections addressing radiant tubing replacement.	**Approve IMC**	*No fiscal
1209.7	**Snow- and ice-melt tubing placement.**		
	IMC M98-21: Added sections addressing snow- and ice-melt tubing replacement.	**Approve IMC**	*No fiscal
CHAPTER 13	**FUEL OIL PIPING AND STORAGE**		
No changes were made to Chapter 13.		**N/A**	—
CHAPTER 14	**SOLAR THERMAL SYSTEMS**		
No changes were made to Chapter 14.		**N/A**	—
APPENDICES			
App-A	**Chimney connector pass-throughs.**	**No changes**	—
App-B	**Recommended permit fee schedule.**	**No changes**	—
App-C	**Board of appeals.** Oregon does not adopt.	**No adoption**	—
App-D	**Clean Air Delivery.** New IMC appendix. Oregon will not adopt.	**No adoption**	—
App-E	**Clean Air Delivery and Monitoring.** New IMC appendix. Oregon will not adopt.	**No adoption**	—
APPENDIX C	**FUEL GAS – OR A**		
C307.2	**Concealed Condensate Piping**		
	ORA Existing amendments: Adding that the secondary drain be clearly marked with an embossed or engraved tag or in an approved manner.	**Retain ORA**	*No fiscal
C310	**Corrugated Stainless Steel Tubing**		
	ORA Existing amendments: Adds Section 310.1.1 Corrugated Stainless-Steel Tubing (CSST). CSST shall be bonded in accordance with the Electrical Code and manufacturer's installation instructions.	**Retain ORA**	*No fiscal
C404.7	**Protection of Piping against physical damage.**		
	ORA Existing amendments: Adds language to clarify that the exempted steel pipe must be at least schedule 40 or thicker.	**Retain ORA**	*No fiscal

Effective Jan. 1, 2025
Mandatory July 1, 2025
(Ref.: ORS 455.511)

Oregon Energy Efficiency Specialty Code 2025 edition

Building Codes Division
Department of Consumer and Business Services

Under Oregon Revised Statute (ORS) 455.511, the division, with approval from the appropriate advisory board, shall adopt amendments to the state building code to increase energy efficiency in buildings that are newly constructed, reconstructed, altered or repaired. The Oregon Energy Efficiency Specialty Code (OEESC) is Chapter 13 of the Oregon Structural Specialty Code and consists of the following:

1. *Chapter 1 of the Oregon Structural Specialty Code (OSSC), including specific modifications as shown below.*
2. *ANSI/ASHRAE/IES Standard 90.1 – 2022, including specific modifications as shown below.*

SECTION E101—GENERAL

E101.1 Title. These provisions are Chapter 13 of the *Oregon Structural Specialty Code (OSSC)* for commercial energy compliance and shall be referred to herein as "this code." The OSSC is referred to herein as the "*Building Code*." Sections E102 through E105 are specific to this code and additional to the requirements of Chapter 1 of the *Building Code.*

> ***Note:*** *For reference only. Not adopted by the State of Oregon, Building Codes Division, as part of the state building code.*
>
> ***Energy incentives***
>
> *This code sets minimum performance standards for buildings constructed under the Building Code. Incentives for exceeding the provisions of this code can be found at: Oregon.gov/energy/incentives.*

SECTION E102—SCOPE AND ADOPTED STANDARDS

E102.1 Scope. This code applies to buildings designed and constructed under the *Building Code*, including *appliances*, *equipment* and services regulated by the *Building Code* that feed directly to, or from the building.

> ***Note:*** *Examples may include, but are not limited to, site lighting powered from the structure, ground-mounted cooling towers and chillers, photo-voltaic systems, and other appliances, or equipment, covered within this code and powered from the regulated structure.*

E102.2 Intent. This code shall regulate the design and construction of buildings for the effective use of energy. This code is intended to provide flexibility to permit the use of innovative approaches and techniques to achieve the effective use of energy. This code is not intended to abridge safety, health or environmental requirements contained in other applicable codes or ordinances.

E102.3 Adopted standards.

E102.3.1 Administration and enforcement. This code is administered and enforced under the provisions and authority granted in Chapter 1 of the *Building Code* with the energy efficiency specific Sections E101 through E105 of this code.

E102.3.2 Construction provisions. ANSI/ASHRAE/IES Standard 90.1-2022 shall serve as the construction provisions for this code. ANSI/ASHRAE/IES Standard 90.1-2022 shall be referred to herein as "Standard 90.1." The administrative and enforcement provisions of Standard 90.1, including submittal, inspection and verification, and recording and reporting are superseded by this code, unless specifically noted in these provisions. Section 1, Purpose, and Section 2, Scope, of Standard 90.1 are not adopted.

SECTION E103—APPLICABILITY

E103.1 General. The following provisions are in addition to the requirements of Section 102 of the *Building Code* and supersede Section 4, *Administration and Enforcement*, of Standard 90.1 unless noted herein.

E103.2 Compliance paths. Energy *efficiency* construction shall comply with Section 4.2.1.1 of Standard 90.1 for new buildings. Normative and informative appendices of Standard 90.1 are only applicable to compliance paths within Standard 90.1.

E103.3 Existing structures. Except as specified in Sections E103.3.1 through E103.3.2, this code shall not be used to require the removal, *alteration* or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system lawfully in existence at the time of adoption of this code.

E103.3.1 Change in space conditioning. Where *unconditioned space* or *semiheated space* in a building is converted to a *conditioned space*, such *conditioned space* shall be brought into compliance with the applicable requirements of Standard 90.1 that would apply to the *building envelope*, heating, ventilating, air-conditioning, service water heating, power, lighting, and other systems and equipment of the space as if the building was new.

E103.3.2 Additions, alterations, renovations or repairs. *Additions*, *alterations*, renovations, or *repairs* to an *existing building*, building *system* or portion thereof shall conform to the provisions of this code as they relate to energy provisions for new construction without requiring the unaltered portion(s) of the existing building or building system to comply.

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Additions, alterations, renovations, or *repairs* shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code if the addition alone complies or if the existing building and addition comply with this code as a single building.

E103.3.2.1 Additions. *Additions* to existing buildings shall comply with Section 4.2.1.2 of Standard 90.1.

E103.3.2.2 Alterations. *Alterations* to existing buildings shall comply with Section 4.2.1.3 of Standard 90.1.

For *alterations* to *lighting equipment* and *systems* serving interior *spaces* of *buildings* or exterior applications, where Section 4.2.1.3(a) of Standard 90.1 is used for compliance, Section 9.1.1.3 of Standard 90.1 shall apply as amended in Section E301.4(a) of this code.

E103.3.2.3 Historic buildings. The exception to Section 4.2.1.3 of Standard 90.1 is not adopted. Where *approved* by the *building official* in accordance with Section 3412 of the *Building Code*, *alterations* and *additions* necessary for the preservation, restoration, rehabilitation, or continued use of a *historic* building are exempt from this code. *Alterations* and *additions* not pertinent to the historic listing shall comply with this code unless otherwise *approved*.

SECTION E104—CONSTRUCTION DOCUMENTS

E104.1 General. The following provisions are in addition to the requirements of Section 107 of the *Building Code*.

E104.2 Energy efficiency information on the construction documents. *Construction documents* shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in sufficient detail pertinent data and features of the building, systems and equipment as herein governed. Details, as applicable, shall include but are not limited to: insulation materials and their *R*-values; fenestration *U*-factors and SHGCs; HVAC *system* design criteria; mechanical and service water heating system equipment types, sizes and efficiencies; economizer description; equipment and system controls; fan motor horsepower (hp) and controls; duct sealing; duct and pipe insulation and location; daylight areas on floor plans; lighting fixture schedule with wattage and control narrative; air sealing details; COM*check* compliance report; and Oregon Energy Compliance Form. Supplemental information necessary to verify compliance with this standard, such as calculations, worksheets, compliance forms, vendor literature, or other data shall be made available when required by the *building official*.

Plans and specifications shall include applicable requirements for submittal information and record documents required by Sections 5.7, 6.7, 7.7, 8.7, 9.7, 10.7 and 11.7 of Standard 90.1. Materials shall be listed and labeled in accordance with Section 4.2.3 of Standard 90.1. Plans and specifications shall include verification and testing requirements per Section 4.2.5.1 of Standard 90.1. Plans and specifications shall include building *commissioning* requirements per Section 4.2.5.2 of Standard 90.1. The *building official* shall not require or expect physical copies of record drawings, manuals, functional performance test reports, or energy reporting unless specifically noted in this section. Section 5.4.3.1.4 of Standard 90.1 building leakage test report shall be submitted to the *building official* where applicable.

Plans shall indicate the total additional *efficiency* credits required by Section 11 of Standard 90.1. Core and shell buildings shall indicate the base number of credits and reduced number of credits when complying with Section 11.5.1(b) of Standard 90.1. Plans shall also indicate any exceptions specific to Section E301 that are used to comply with this code.

Exception: The *building official* is authorized to waive the requirements for *construction documents*, COM*check* reports, or other supporting data if the *building official* determines these are not necessary to confirm compliance with this code.

E104.2.1 Oregon Energy Compliance Form. *Construction documents* for new buildings shall include the Oregon Energy Compliance Form, including a ZERO Code 2.0 Calculator report (See ZERO-Code.org/energy-calculator/).

Note: *For reference only. Not adopted by the State of Oregon, Building Codes Division, as part of the state building code.*

Green Energy Technology

The Oregon Department of Energy administers the 1.5% for Green Energy Technology program for public buildings. New construction and major renovation projects for public buildings are required to evaluate and install Green Energy Technology and report to the Oregon Department of Energy in accordance with Oregon Revised Statute (ORS) Chapter 279C, Section 279C.527-528 and Oregon Administrative Rule (OAR) Chapter 330, Division 135.
See Oregon.gov/energy.

SECTION E105—INSPECTIONS

E105.1 General. The following provisions are in addition to the requirements of Section 110.3.9 of the *Building Code*.

E105.2 Energy efficiency inspections. Inspections shall be made to determine compliance with Chapter 13 and shall include, but not be limited to, inspections for: compliance with *approved* COM*check* compliance report and *approved construction documents*, envelope air sealing, envelope insulation *R-values* and *U*-factors, fenestration *U*-factor, duct system insulation *R*-value, and HVAC and water-heating equipment efficiency. Section 4.2.4 of Standard 90.1 shall apply.

SECTION E201—DEFINITIONS

E201.1 General. The terms, abbreviations, and acronyms defined in Chapter 3 of Standard 90.1 shall apply to this code where it is not defined in Section 201.2 of the *Building Code* or in Section E201.2 of this code. Definitions from Section 3 of Standard 90.1 shall not be applied to the *Building Code* or any other specialty codes. Terms defined in Standard 90.1 that duplicate *Building Code* terms shall only apply to Standard 90.1, unless the term is superseded by a modified definition in Section E201.2. Terms that are not defined shall have their ordinarily accepted meanings within the context in which they are used.

E201.2 Definitions. The following definitions are in addition to or replace definitions in Standard 90.1.

adopting authority: The Building Codes Division of the Oregon Department of Consumer and Business Services.

authority having jurisdiction: The authorized building official.

building thermal envelope: See *building envelope* in Section 3 of Standard 90.1.

computer room: a room whose primary function is to house ITE for the processing and storage of electronic data.

construction documents: see Chapter 2 of the *Building Code.*

data center: a computer room (or series of computer rooms that share *data center systems*) serving a total ITE load greater than 100 kW and 20 W/ft^2 (215 W/m^2) of conditioned floor area.

data center systems: *HVAC systems*, electrical systems, equipment, or portions thereof, used to condition ITE or electrical systems. *Data center systems* may also be shared, serving other *data center* additions or non-data-center loads.

design professional: see *Building Code* definition of registered design professional.

historic: see *Building Code* definition of *historic building*.

information technology equipment (ITE): *ITE* includes computers, data storage, servers, and network/ communication equipment.

low-rise residential buildings: residential structures regulated under the *Residential Code*.

unconditioned space: an enclosed space within a building that is not a conditioned space or a *semiheated space*, including automatic sprinkler riser rooms and fire pump rooms per Section 902 of the *Building Code*. Crawlspaces, attics, and unheated parking garages with natural or mechanical *ventilation* are not considered enclosed *spaces*.

SECTION E301—MODIFICATIONS TO STANDARD 90.1

E301.1 Modifications to Standard 90.1. The provisions of Standard 90.1 are modified by Sections E301.2 through E301.6.

Additional language to Standard 90.1 is denoted with underlined text. Deleted language from Standard 90.1 is denoted with strikethrough text.

E301.1.1 References to ASHRAE Standards 62.1 and 62.2. The *Mechanical Code* sets ventilation standards for this code and the *Building Code*, with allowance for other methods. Unless otherwise modified by this code, any reference to ASHRAE Standards 62.1 and 62.2 in Standard 90.1 shall mean the *Mechanical Code*, or other *approved* ventilation standard.

E301.1.2 References to NFPA 70. Unless otherwise modified by this code, any reference to NFPA 70 Articles in Standard 90.1 shall mean the NFPA 70 Articles as amended by the *Oregon Electrical Specialty Code*.

E301.2 Building envelope. The following modifications apply to the indicated subsection to Section 5 of Standard 90.1.

a. Exceptions to 5.1.6.3.

1. A *space* may be designated as either a *semiheated space* or an *unconditioned space* only if approved by the *building official*.

2. A space with a limited *radiant heating system* meeting the requirements of Section 6.5.8.3 (E301.3(e)) shall be considered an *unconditioned space*.

b. Exceptions to 5.4.3.4

11. Buildings less than 25,000 ft^2 in gross *conditioned floor area* with an *air leakage* rate not exceeding 0.30 cfm/ft^2 and meeting the testing requirements of Section 5.4.3.1.4.

E301.3 Heating, ventilating, and air conditioning. The following modifications apply to the indicated subsections to Section 6 of Standard 90.1:

a. Section 6.4.3.4.5 Parking Garage Ventilation Systems. Parking garage *ventilation systems* shall meet Section 404 of the *Mechanical Code* and all of the following:

a. Separate *ventilation systems* and control *systems* shall be provided for each *parking garage section*.

b. Control systems for each *parking garage section* shall *automatically* detect and control contaminant levels and shall be capable of and configured to reduce airflow to 20% or less of *design capacity* in accordance with Section 404 of the *Mechanical Code*.

c. The *ventilation system* for each *parking garage section* shall have controls and devices that result in fan motor *demand* of no more than 30% of design wattage at 50% of the design airflow.

Exception to 6.4.3.4.5: Garage *ventilation systems* serving a single *parking garage section* having a total *ventilation system motor nameplate horsepower* not exceeding 5 hp at *fan system design conditions* ~~and where the *parking garage section* has no *mechanical cooling* or *mechanical heating*~~.

b. Section 6.4.3.5.1 Packaged HVAC Equipment with Electric Heat. HVAC *equipment* for new *buildings* with a cooling capacity less than 241,000 Btu/h from Table 6.8.1-1 shall not have electric supplemental heat exceeding 21,500 Btu/h (6 kW). *Equipment* with *electric resistance* heating exceeding 21,500 Btu/h (6 kW) and cooling capacity less than 241,000 Btu/h shall have heat pump operation for the first stage of heating and shall be selected from Table 6.8.1-2.

c. Section 6.5.3.9 (c)

c. Where ASHRAE Standard 62.1 is used for ventilation design, all airflow supplied to the zone shall be shut off whenever the *space* temperature is between the active heating and cooling *set points*.

d. Section 6.5.6.1.1 Nontransient Dwelling Units. Individual *nontransient dwelling units* with the required continuous ventilation rate exceeding 60 cfm shall be provided with *outdoor air energy* recovery *ventilation systems*. ~~For *nontransient dwelling units*, *energy* recovery *systems* shall result in an *enthalpy recovery ratio* of at least 50% at the cooling design condition.~~ *Ventilation systems* serving multiple *nontransient dwelling units* shall comply with 6.5.6.1.2.

(The rest of Section 6.5.6.1.1 remains unchanged)

e. **Section 6.5.8.3 Radiant Heating for Enclosed Unconditioned Spaces.** Overhead radiant heating systems shall be allowed in *unconditioned spaces* for spot heating of occupied areas. Spot heating shall be limited to 500 ft^2 or 10 percent of the space floor area, whichever is greater. Control shall be automatic complying with either 6.4.3.3.1(b) or 6.4.3.3.1(c).

f. **Exceptions to 6.5.10:**

(*Exceptions 1 through 4 remain unchanged*)

5. Residential *dwelling units* in *buildings* three stories and less.
6. Normally locked doors not used as a *building* entry where *approved*.

Errata-March 4, 2025: In the first publishing of this code, Section 6.6 of Standard 90.1 was erroneously noted as not adopted and Section 6.6.1 was erroneously amended. The following errata aligns with the intent approved through the code adoption process.

- OEESC E301.3(g) Section 6.5.12 is adopted
- ASHRAE 90.1 Section 6.6 is adopted as part of this code
- ASHRAE 90.1 Section 6.6.1 is not adopted as part of this code

g. **Section 6.5.12 Data Center Rooms Systems.** The following requirements are mandatory for *data centers* and optional for a *computer room* with IT *equipment* load greater than 10 kW. *HVAC systems* that only serve the heating, cooling, or ventilating needs of a *data center* or a *computer room* ~~*kW*~~ shall comply with ASHRAE Standard 90.4, *Energy Standard for Data Centers*. All other *HVAC systems* shall comply with the applicable requirements in Section 6.5.

h. **6.6.1 Computer Rooms Systems Path.** Not adopted

E301.4 Power. The following modifications apply to the indicated subsection to Section 8 of Standard 90.1:

a. **Exception to 8.2.1**

Power distribution *systems* and *equipment* only serving a *data center* ~~computer room with IT equipment load greater than 10 kW~~ shall ~~be permitted to~~ comply with Section 8.6, "Data Center Room Systems." ~~"Alternative Compliance Path."~~

b. **Section 8.4.1 Voltage Drop.** Not adopted

c. **Exceptions to 8.4.2**

Receptacles for the following shall not require an *automatic control device*:

1. Receptacles specifically designated for *equipment* requiring continuous operation (24/day, 365 days/year).
2. *Spaces* where an *automatic control* would endanger the safety or security of the room or *building* occupants.
3. The *building* achieves five additional *efficiency* credits above the minimum credits required in accordance with Section 11.5.

d. **Exceptions to 8.4.3.1 and 8.4.3.2**

(*Exceptions 1 through 5 remain unchanged*)

6. The building achieves two additional *efficiency* credits above the minimum credits required in accordance with Section 11.5.

The additional *efficiency* credits used to comply with this exception may be used to comply with Exception 6 to Sections 10.4.7.1 and 10.4.7.2.

e. **Section 8.6 Alternative Compliance Path.** Not adopted.

f. **Section 8.6~~.1 Computer~~ Data Center Room Systems.** Power *distribution systems* and *equipment* ~~only~~ serving a ~~*computer room*~~ *data center* ~~with IT *equipment* load greater than 10 kW~~ shall comply with ASHRAE Standard 90.4, *Energy Standard for Data Centers.*

E301.5 Lighting. The following modifications apply to the indicated subsection to Section 9 of Standard 90.1:

a. **Section 9.1.1.3** is replaced in its entirety with the following:

9.1.1.3 Alterations to Existing Systems and Equipment. The *alteration* of *lighting equipment* and *systems* in an interior *space* shall comply with Section 9.1.1.3.1. The *alteration* of a *lighting system* in an exterior application shall comply with Section 9.1.1.3.2.

The maintenance of an existing *lighting system* to return it to working order shall not be considered an *alteration*. Retrofitting a *luminaire* for which the original *lamps* and *ballast/driver* are replaced with a new *lamp/light source* and *driver/ballast* that was not a component of the original *luminaire* shall be considered an *alteration* of the *luminaire*, but not a *lighting system alteration*.

9.1.1.3.1 Alterations for Interior Building Spaces. The *alteration* of a *lighting system* in an interior *space* shall meet one of the following requirements, as applicable:

a. *Alterations* shall not increase the total wattage of a *lighting system.*

Exception to 9.1.1.3.1(a): The total wattage of the altered *lighting system* within an altered *space* shall comply with the LPA as applicable to the altered *space* as shown in Tables 9.5.2.1-1 and 9.5.2.1-2 and Section 9.5.2.2.

b. *Alterations* that create a new *space* shall comply with Section 9.2.

c. *Alterations* to *lighting system* controls in a *space* shall comply with the control requirements of Section 9.4.1.1 as applicable to each altered *space* and shown in Tables 9.5.2.1-1 and 9.5.2.1-2, and Section 9.5.2.2.

9.1.1.3.2 Lighting Alterations for Exterior Building Areas. The *alteration* of a *lighting system* and luminaires for an exterior area shall comply with the following requirements, as applicable:

a. *Alterations* shall not increase the total wattage of a *lighting system.*

Exception to 9.1.1.3.2(a): the altered exterior area shall comply with the area-specific allowances in Table 9.4.2-2 and shall not use the base *site* allowances to determine the *LPA*.

b. New and replacement fixtures for an existing *lighting system* shall be provided with no less than the controls of the existing *lighting system*.

b. Section 9.4.3.1 Lamp and Luminaire Efficacy. ~~At least 75%~~ 100% of the permanently installed *luminaires* shall use lamps with an efficacy of at least 75 lm/W or have a total luminaire efficacy of at least 50 lm/W. *Dwelling unit* floor area shall be excluded from total building floor area under the Building Area Compliance Method (9.5.1).

E301.6 Other equipment. The following modifications apply to the indicated subsection to Section 10 of Standard 90.1:

a. Section 10.4.6 Compressed Air Systems. Not adopted.

b. Exceptions to 10.4.7.1 and 10.4.7.2

(*Exceptions 1 through 5 remain unchanged*)

6. *Buildings* achieving two additional *efficiency* credits above the minimum *energy* credits required in accordance with Section 11.5.

The additional *efficiency* credits used to comply with this exception may be used to comply with Exception 6 to Sections 8.4.3.1 and 8.4.3.2.

c. Section 10.5.1 Renewable Energy Resources. Not adopted

d. Section 10.5.1.1 On-site Renewable Energy. Not adopted.

E301.7 Additional efficiency measures. The following modifications apply to the indicated subsection to Section 11 of Standard 90.1:

a. Section 11.5.1 Energy Credits Required. Projects shall achieve the total of credits, EC_{adj}, required in Table 11.5.1-1 as amended by Section E301.7(b) of this code ~~based on the *building* use type and climate zone~~. Projects with multiple *building* use types, *unconditioned* or *semiheated buildings*, parking garages, projects using *on-site renewable energy*, *alterations*, and *buildings* with separate shell-and-core and initial build-out *construction* permits shall comply as follows:

(*11.5.1(a), (b), (c), and (d) remain unchanged*)

Section 11.5.1(e). Not adopted.

(The rest of Section 11.5.1 remains unchanged)

b. Table 11.5.1-1 Energy Credit Requirements by Building Use Type (Adjusted)

Building Use Type [a]	Climate Zone	
	4C	5B
Multifamily [b]	32	41
Health care [c]	47	47
Hotel/motel	42	34
Office [d]	43	42
Restaurant [e]	49	49
Retail	38	36
Education [f]	41	39
Warehouse [g]	30	30
Other [h]	23	23

(The rest of the table remains unchanged)

c. Section 11.5.2.6 R01: On-Site Renewable Energy. To achieve this credit, the total minimum ratings of *on-site renewable energy systems* ~~in addition to the requirements of Section 10.5.1.1~~ shall be not less than 0.1 W/ft^2 of *gross floor area*. Additional *energy* credits shall be determined as follows:

$$EC_{R01_adj} = EC_{R01_base} \times \frac{RR_{total} - RR_{req}}{0.1 \times PGFA}$$

EC_{R01_adj} = *energy* credits achieved for *on-site renewable energy*

EC_{R01_base} = R01 base *energy* credit from Section 11.5.3

RR_{total} = actual total minimum rating of *on-site renewable energy systems*, W

RR_{req} = ~~minimum rating of *on-site renewable energy systems* required by Section 10.5.1.1 without exception~~ 0.50 W/ft^2 or 1.7 Btu/ft^2, multiplied by the sum of the gross conditioned floor area for all floors up to the three largest floors, W

PGFA = project *gross floor area*

Informative Note: *On-site renewable energy* may include thermal *service water heating* or *pool* water heating in which case ratings in Btu/h can be converted to W, where W = Btu/h/3.413.

Executive Summary 2025 Oregon Fire Code Amendments

Executive Summary
2025 Oregon Fire Code Amendments

Overview

This document summarizes several of the significant changes to the proposed 2025 *Oregon Fire Code* (OFC). Part I contains additions, modifications and amendments approved at the International Code Council code development hearings for publication within the 2024 *International Fire Code,* which is published for nationwide adoption. The Oregon Fire Code subcommittee reviewed these changes and provided their recommendations for adoption.

Part II has new proposed Oregon amendments as reviewed by the 2025 OFC subcommittee and includes applicable stakeholder input and a brief statement on how the Oregon Fire Code Advisory Board (OFCAB) voted as part of their final recommendation to the State Fire Marshal.

PART I

Significant Changes to the 2024 *International Fire Code:* The significant changes highlighted below were changes that OSFM Technical Services Unit (TSU) determined to highlight based upon positive impacts within Oregon. There were over 100+ changes and additions to the model code (2024 International Fire Code) and all those items were discussed at the International Code Council level with comments and approvals conducted at those meetings. The Oregon Fire Code Committee's reviewed all the changes within the 2024 International Fire Code and after reviewing the committee's agreed with all the changes and or additions to be included within the 2025 Oregon Fire Code.

1. **Section 104 – Duties and Powers of the Fire Code Official**

   Code Change Type – Modification

   Change Summary – The provisions for review and approval of "alternative methods" are revised and clarified. The alternative method criteria are now the same in all the International Codes (I-Codes), enhancing the uniformity and application of companion codes.

Purpose – The revisions are designed to improve organization of the section; clarify the difference between evaluations from accredited evaluation agencies and evaluations from others, such as engineers; enhance guidance for evaluation of alternative methods and materials; and clarify the use of the section on modifications.

Background – Section 104 contains general requirements for the authority, duties and powers of the fire code official. Among these authorities and duties is the review and approval of projects and facilities to determine compliance with the code. Section 104 provides various approaches available to demonstrate code compliance. The revisions to Section 104 update those approaches commonly in use today.

Justification/Rationale – This enhances the application of the codes and allows the building code official and the fire code official to utilize the same process when evaluating an alternative method that affects code provisions from multiple disciplines.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Two proposed code changes were submitted to this section by the OFC subcommittee. The Technical Services Unit reviewed the two proposed changes and concluded that they were outside the scope and authority of the fire code officials and conflicted with ORS 455.148(8) and ORS 455.485. The subcommittee chair and proponent were informed and understood the possible conflicts, and these were not moved forward to the OFCAB.

2. **<u>Section 202 – Definition of Emergency Responder Communications Enhancement System (ERCES)</u>**

Code Change Type – Addition

Change Summary – The two-way emergency responder communications system is now referred to as the emergency responder communications enhancement system, and several other definitions are included to assist in applying these regulations.

Purpose – Emergency responders use portable radios to communicate with other emergency responders and the incident commander at the site of a fire.

Emergency responders need to be able to communicate from inside of a building with others outside the building.

Background – The term "two-way emergency responder communication system" is revised to "emergency responder communications enhancement system (ERCES)." Multiple solutions are available and utilized to improve communication coverage inside buildings for emergency responders. The selection of the proper solution and coordination of its design, installation and maintenance can create safety issues for anyone needing to operate on those frequencies. The safety of emergency responders and the integrity of the communications system is of the utmost importance.

Justification/Rationale – Building construction features and materials can absorb or block the radio frequency energy used to carry the signals through the building. Blockage or absorption of the radio frequency signal can prevent receipt and acknowledgment of a critical message from an emergency responder. Requirements in the Oregon Structural Specialty Code and Oregon Fire Code apply to analog or digital radio systems and are applicable to all buildings.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

3. **Section 202 – Definition of Puzzle Rooms**

Code Change Type – Modification

Change Summary – Puzzle rooms are defined in the building and fire code and included under the general definition of special amusement areas.

Purpose – Throughout the country these interactive, themed rooms have grown in popularity and multiple life safety concerns have arisen. A special amusement area is a building or portion thereof where people gather and in which egress is either not readily apparent due to distractions, is intentionally confounded or is not readily available. Additional provisions have been added to chapters 9, 10 and 31.

Background – A puzzle room, sometimes called an escape room, is a recent entertainment experience wherein the participants must find their escape from a room or area. There is the perception that occupants are locked into the room and cannot exit without solving a series of clues.

The definition includes all such facilities, including portable and temporary structures. The hazard associated with such buildings is not related to the permanence or length of use; therefore, seasonal uses and portable uses are included in the definition.

Justification/Rationale – Since the egress path is not readily available, or readily visible, the puzzle room is classified as a special amusement area.

The definition of puzzle room was added to the 2021 *International Building Code* (IBC) along with revisions to the definition of special amusement areas. These changes have also been made to the 2024 IFC.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

4. **Section 320 – Lithium-ion and Lithium Metal Battery Storage**

Code Change Type – New section

Change Summary – Requirements pertaining to the storge of lithium-ion and lithium metal batteries are added to address the significant fire hazard that occurs during thermal runaway.

Purpose – Advancements in battery technologies have introduced a new generation of battery types, such as lithium-ion and flow batteries, each with advantages and potential hazards.

Background – Lithium-ion and lithium metal batteries can create challenging fires. The IFC intends to provide the necessary safety mechanisms to prevent and mitigate fires and explosions that can result due to the inherent hazards associated with the technologies. IFC Section 1207 addresses electrical energy storage systems (ESS), but other uses for lithium-ion and lithium metal batteries exist.

Justification/Rationale – The provisions are intended to address all types of storage scenarios from manufacturing to warehouse operations to retail, and even the collection and recycling process. The requirements focus on mitigation of the significant impact thermal runaway and fires can have on facilities and public safety.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

5. **Section 322 – Powered Micromobility Devices**

Code Change Type – New section

Change Summary – Requirements are added to regulate the use and re-charging of lithium-ion or lithium metal battery powered micromobility devices.

Purpose – Battery operated scooters, bicycles, wheelchairs and devices have been available for years. Many of these devices are now powered by lithium-ion or lithium metal batteries, and fire incidents have occurred as a result.

Background – The fire incidents have mainly occurred during charging times or during actual use and operation. Lithium-ion and lithium metal batteries can result in a thermal runaway incident with a significant fire. There have been significant fires due to these devices, including a 4-alarm fire in New York City.

Justification/Rationale – Provisions in Chapter 3 establish safety requirements for storage and charging of powered micromobility devices with lithium-ion and lithium metal batteries. The devices, along with the charging equipment, must be listed.

Operating a rental, sales or service business for powered micromobility devices is strictly prohibited in residential occupancies. This prohibition does not apply to the charging of personal devices for personal use.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

6. **Section 403.10.6 – Fire Safety Plan for Lithium-ion Batteries**

Code Change Type – Addition

Change Summary – A fire safety and evacuation plan must be maintained for most occupancies that involve activities for the research and development, testing, manufacturing, handling or storage of lithium-ion batteries or lithium metal batteries, or the repair or servicing of vehicles powered by lithium-ion batteries or lithium metal batteries.

Purpose – This section requires a fire safety and evacuation plan be prepared and maintained for occupancies conducting activities involving lithium-ion and lithium-metal batteries.

Background – Lithium-ion and lithium metal batteries have been a contributing factor in a growing number of fire incidents for several years and are being used in an ever-increasing number of products and applications.

Justification/Rationale – Early mitigation and planned actions are key elements in providing for the safety of occupants and reducing the size of a fire event.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

7. **Section 705.2.7 – Rolling Fire Door Testing**

Code Change Type – Modification

Change Summary – Rolling steel fire doors must be inspected, tested, and reset by a trained fire door systems technician on an annual basis and in accordance with NFPA 80.

Purpose – Rolling steel fire doors have a unique operation and require specific product training to ensure the inspection personnel will be able to properly conduct the inspection and testing, including a visual inspection of the door assembly, a check of the door operation, a drop test and a reset of the door to operational status.

Background – The complex nature of the tension release devices and the automatic closing systems include multiple components which must work together for the door to operate properly.

Justification/Rationale – The technician must be familiar with the types of equipment and the features of the door assembly, as well as manufacturer-specific details necessary to help ensure the door will function as intended.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

8. **Section 903.2 and 903.3 – Sprinklers for Battery Storage, Testing, and Vehicle Repair**

Code Change Type – Modification

Change Summary – A sprinkler system is required for facilities where lithium-ion batteries or lithium metal batteries are developed, tested, manufactured, and stored, and also where vehicles powered by lithium-ion or lithium metal batteries are repaired.

Purpose – Research, testing and development activities can present an increased risk of thermal runaway. In certain testing, thermal runaway is even caused intentionally.

Background – Fire sprinklers are required for lithium-ion battery areas exceeding 500 square feet because of the unique fire hazards associated with these batteries, particularly the risk of thermal runaway. Thermal runaway can cause a cascading ignition and fire, making traditional fire suppression methods insufficient. Sprinklers are needed to rapidly cool the affected area and prevent the fire from spreading.

Justification/Rationale – Lithium-ion batteries and lithium metal batteries are capable of producing significant heat during a fire situation. The areas where these batteries are manufactured, repaired, stored and displayed for retail are required to be protected by an automatic sprinkler system.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

9. **Section 904.12 – Hybrid fire-extinguishing Systems**

Code Change Type – New section

Change Summary – Hybrid fire-extinguishing systems are now addressed in the IFC.

Purpose – The Montreal Protocol of 1989 has resulted in a continuing search to replace halon fire-extinguishing systems. Hybrid fire-extinguishing systems are a recently developed fire-extinguishing method.

Background – These systems consist of the discharge of a fine water spray combined with an inert gas. The discharge results in the oxygen concentration dropping below 16 percent. These systems combine the technology of water mist systems and clean agent systems.

Justification/Rationale – There is no requirement to install hybrid fire-extinguishing systems. These systems are included as an option under alternative fire-extinguishing systems. But the application of these systems must be based on a listing or specific testing. A new standard has been developed for the design and installation of these systems – NFPA 770, *Standard on Hybrid (Water and Inert Gas) Fire-Extinguishing Systems*. This standard must be followed to ensure the fire is controlled and the oxygen level is maintained at acceptable levels in occupied areas.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

10. Section 915.1 – Carbon Monoxide Alarms

Code Change Type – Modification

Change Summary – Carbon monoxide (CO) detection is required in all occupancies containing a carbon monoxide source. Detection and notification can be addressed in several ways, and a definition is added to clarify where CO detection is required.

Purpose – Carbon monoxide (CO) is a colorless, odorless, tasteless gas that is produced by burning fuels such as gas, wood, propane, charcoal, gasoline or other fuels. CO is produced by fuel-powered vehicles and fuel-fired equipment within buildings such as water heaters, furnaces, fireplaces, dryers, etc. Because of these hazards, the installation of CO detection and occupant notification is the best way to alert occupants of a potential problem.

Background – CO poisoning incidents resulting in deaths and injuries continue to happen across all occupancies not just those occupancies previously covered. Therefore, all occupancies are to be provided with CO detection. The only exception is Group F, S and U occupancies, which are not normally occupied.

Justification/Rationale – The CO detection requirements have been substantially revised and reformatted by several code changes. Perhaps the most significant change is that CO detection is required in all occupancies where a CO producing source is present in an occupied building. Previously, CO detection systems were only required in Group I-1, I-2, I-4 and in classrooms in a Group E occupancy as well as in all R occupancies in Oregon (BDC amendment).

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

11. Section 4005 – Protection of Distilled Spirits in Wooden Barrels

Code Change Type – Addition

Change Summary – Specific design criteria are included for automatic sprinkler systems protecting distilled spirits in wooden barrels.

Purpose – This section is added to provide guidance for the design of the automatic sprinkler system protecting distilled spirits in wooden barrels stored in warehouse facilities and in small distillery facilities.

Background – Largely, one of the changes is the threshold at which the percentage of alcohol results in a higher classification of hazard. Traditionally, beverages with an alcohol content greater than 16 percent were considered to present a higher level of hazard and were therefore placed into Group F-1 for manufacturing and packaging and Group S-1 for storage. Recent testing by FM Global demonstrates that the 16 percent threshold was too restrictive, so the threshold is revised to 20 percent based on fire testing. If the alcohol content is not more than 20 percent, the alcohol content does not raise the flammability of the liquid to an extent where additional levels of protection are necessary. These beverages with an alcohol content of 20 percent or less are considered nonflammable or noncombustible liquids. As a result, the manufacturing, packaging and storage of beverages with an alcohol content of 20 percent or less are classified as Group F-2 or S-2 as appropriate. Section 4005.3 specifies that for beverages with an alcohol content of 20 percent or less, the sprinkler design criteria in NFPA 13, *Standard for the Installation of Sprinkler Systems,* are appropriate.

Justification/Rationale – For those beverages with an alcohol content greater than 20 percent, Section 4005 provides criteria for the storage and protection of distilled spirits in barrels. Section 4005.1.1 limits the height of storage for palletized storage of on-end barrels to 7 barrels high. Section 4005.1.3 addresses loading aisles that may be used in palletized storage.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

OFC Subcommittee Recommendation – Unanimously recommended with no changes.

PART II

Oregon Amendments with OFCAB recommendations to State Fire Marshal. The following code amendments were recommendations provided by both the Oregon Fire Code Committee's and OSFM's Technical Services Unit. All the code amendments

were then reviewed by the OFCAB and then provided a recommendation to the State Fire Marshal.

12. **Firework Retail Sales Requirements: Section 5609**

Code Change Type – Addition

Purpose – Provides fire code officials with a clear citation path for existing Oregon Administrative Rules (OARs) permitted by the OSFM Regulatory Services Division.

Background – The OSFM issues retail fireworks permits while local fire departments conduct site inspections and ensure compliance at fireworks sales locations.

Amendment Summary – This amendment incorporates a paraphrased version of OSFM rules into the Oregon Fire Code as Section 5609, within the Explosives and Fireworks chapter. It outlines general requirements for all retail sales areas and specific provisions for indoor and outdoor sites.

Justification/Rationale – Fire regulations at retail fireworks sale's locations are typically enforced by local fire departments, but they lacked a direct citation for specific violations. This amendment provides enforceable code language to address this gap.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

Stakeholder Input – Mark Johnston, OSFM Regulatory Services Assistant Chief, contributed to the process, and a TNT Fireworks representative co-chaired the OFC Subcommittee.

OFCAB Recommendation – Unanimously recommended.

13. **Special Effect Firework Definition: Section 202**

Code Change Type – Addition

Purpose – Establishes the statutory definition for "Special Effect Fireworks," including devices known as "cold spark machines," for fire code officials.

Background – "Cold spark machines" are hazardous due to their misleading name, which suggests safe use in any environment, despite requiring an OSFM permit. Their easy online availability exacerbates the issue.

Amendment Summary – Adds a definition for "Special Effect Fireworks" to Chapter 2 of the OFC, encompassing "Pyrotechnic Special-Effect Materials", including "cold spark machines," derived from ORS 480.111(17). The term is included in Section 105.5B, requiring the OSFM permit.

Justification/Rationale – Confusion and lack of awareness about the hazards of cold spark machines necessitate a clear definition and permit requirement to enhance safety and regulatory clarity.

Fiscal or Operational Impact – No impact to either jurisdictions or the public.

Stakeholder Input – Mark Johnston, OSFM Regulatory Services Assistant Chief, was involved in this process and a representative of TNT Fireworks was the co-chair of this OFC Subcommittee.

OFCAB Recommendation – Unanimously recommended.

14. Fire Flow for Buildings in Unprotected Areas: Section B108 (Appendix B)

Code Change Type – Addition

Purpose – Guides fire officials, primarily OSFM deputies, on water supply requirements for structures in unprotected areas, such as USFS or BLM land.

Background -- Section B108 has been "reserved" in the Oregon Fire Code for several cycles and primarily applies to OSFM deputies in areas outside fire protection districts. This appendix is adopted by the State of Oregon, making it a part of the OFC.

Amendment Summary – This new section references existing Land Conservation and Development Commission (LCDC) rules for land use and planning. It directs owners to seek inclusion in a fire protection district and allows authorities to consider alternative water supply methods case by case. It also references statutory water supply requirements for public buildings, like places where people gather such schools, churches, grandstands, and state facilities.

Justification/Rationale – Adequate water supply and access are critical for fire protection, particularly in unprotected areas. This need has gained importance in recent years with a focus on defensible space, in addition to previously traditional needs for a water supply. This section provides guidance by referencing existing processes and resources, emphasizing the water supply need without introducing new requirements.

Fiscal or Operational Impact – As a reference to existing requirements, no fiscal or operational impacts are anticipated for jurisdictions or the public.

Stakeholder Input – Guidance only; no new requirements.

OFCAB Recommendation – Unanimously recommended.

15. Valet trash: Section 304.1.1 and Appendix O

Code Change Type – New section

Purpose – Establishes safety requirements for apartment buildings using valet trash or recycling services, where materials are placed in exit corridors, addressing fire safety concerns.

Background -- This is the first appearance of regulations for valet trash in the fire code after years of consideration, debate and inconsistent enforcement by the International Code Council (ICC). While the fire service has been in strong opposition to valet trash, the VT industry has paid lobbyists, called "Directors of Governmental Affairs" to avoid universal mandates and exploit gaps in local adoption. In the end, the only requirement added to 2024 ICC code was the ability of fire code officials to decide which buildings valet trash service could take place (e.g., no buildings, sprinklered buildings, or all buildings). The word "sprinkler" is not used in the International Fire Code in the context of valet trash.

Specific requirements for safety inside those approved buildings were reserved in an appendix that could later be adopted at the state or local level. The fire prevention community has noted that this is a case study in how a well-funded industry can influence the code-making process intended to ensure the safety of those needing to get out of an older apartment building when it is on fire. Without a state-wide requirement, which buildings are approved for the service will be determined by each fire department.

Amendment Summary – Adopts Appendix O, giving it full Oregon Fire Code authority. It specifies requirements for trash and recycling container construction, corridor placement, duration, and tenant rules. Oregon additions include lid closure, documentation, and prohibitions on contents such as hazardous materials and batteries. An operational permit option was also added as an Oregon amendment.

Justification/Rationale – Exit corridors must remain unobstructed for safe egress during emergencies. The fire code clearly says that an exit corridor shall not be used for any other reason that would decrease that purpose. These regulations restore a level of safety to this egress component which will now be used in a way it was not intended (storing trash).

Fiscal or Operational Impact – No fiscal or operational impact anticipated.

Stakeholder Input – The Oregon Fire Code Subcommittee, composed of fire service members, proposed requiring sprinklers in corridors with valet trash. This was sent to seven stakeholders, including the valet trash industry, Oregon multifamily housing authorities, and refuse/recycling associations. The valet trash industry opposed the sprinkler requirement, while other responses were mixed.

OFCAB Recommendation – During the March OFCAB meeting, private industry provided comments concerning the original recommendation by the OFCC subcommittee to require sprinkler protection within the corridors of buildings utilizing Valet Trash. The OFCAB rejected the sprinkler requirement recommended by the OFCC subcommittee as a comprehensive amendment package, but unanimously approved Appendix O with all the other changes.

16. <u>Special Amusement Areas: Section 3109</u>

Code Change Type – New section

Purpose – Consolidates existing fire code requirements for special amusement areas, such as escape rooms and haunted houses (2022 OFC Appendix Q), a type of special amusement area, into a single section, incorporating for haunted houses.

Background – Recent Oregon Fire Code and Structural Specialty Code cycles have added safety requirements for special amusement areas such as "escape

rooms" and "haunted houses" that use maze-like corridors, now expanded from "buildings" to "areas" to include outdoor mazes like corn mazes.

Amendment Summary – Adds "Special Amusement Areas" to Chapter 31's title and creates Section 3109, referencing existing requirements for fire sprinklers, alarm systems, exit access travel distances, and permits. It incorporates 2022 OFC Appendix Q for haunted houses, reducing confusion and improving usability without creating any new code requirements.

Justification/Rationale – Consolidating requirements aids coordination with building officials for seasonal or temporary uses and clarifies distinctions between often confused terms "special amusement areas" and "special event structures".

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

Stakeholder Input – None, as no new regulations are introduced.

OFCAB Recommendation – Unanimously approved.

17. Intermodal shipping containers: Section 315.4.3

Code Change Type – Addition

Purpose – Establishes a fire code citation for maintaining intermodal shipping containers, commonly called "conex" units, complementing Oregon Structural Specialty Code (OSSC) requirements.

Background – Proposed by an external applicant and the original proposal was deemed too broad in scope, the OSFM Technical Services Unit developed a maintenance-focused section to align with 2022 and 2025 OSSC updates, providing many of the safeguards first intended. The proposal provides a pointer back to the existing OSSC language for the fire code official to provide a more focused enforcement aspect.

Amendment Summary – Creates Section 315.4.3 to cite maintenance requirements for intermodal shipping containers permitted under the 2025 OSSC. It also addresses existing fire code conditions, such as hazardous materials limits and product listing requirements.

Justification/Rationale – Aligns the fire code with OSSC requirements, enabling fire inspectors to ensure safe use of intermodal shipping containers without introducing new regulations.

Fiscal or Operational Impact – No fiscal or operational impact anticipated.

Stakeholder Input – No new regulations; dialogue between OSFM and Building Codes Division ensured alignment with 2025 OSSC requirements.

OFCAB Recommendation – Unanimously approved.

18. **Bridge Maintenance: Section 503.2.6**

Code Change Type – Modification

Purpose – Updates bridge maintenance standards in the Oregon Fire Code to align with Oregon Department of Transportation (ODOT) standards and practices.

Background – The International Fire Code (IFC) references AASHTO HB17 for bridge maintenance, but ODOT uses updated standards critical for fire department access with heavy apparatus.

Amendment Summary – Replaces AASHTO HB17 with ODOT's "AASHTO LRFD Bridge Design Specifications" for new bridges and "ODOT Bridge Maintenance Design Manual" for existing bridges.

Justification/Rationale – Aligns the fire code with current ODOT standards to ensure reliable access for emergency apparatus.

Fiscal or Operational Impact – No anticipated impact on either the jurisdiction or the public.

Stakeholder Input – Dialogue between ODOT and OSFM ensured accurate standard references.

OFCAB Recommendation – Unanimously approved.

19. **Solar Farm (Ground-mounted PV panel systems) maintenance: Section 1205.5**

Code Change Type – Addition

Purpose – Provides fire code officials with authority to enforce existing National Electrical Code (NEC) maintenance requirements for large private solar farms.

Background – Proposed by an Oregon fire department after 2024 wildland fires were caused by deteriorated solar farm equipment in larger privately-owned facilities, and overgrown vegetation. This amendment clarifies NEC requirements not directly referenced in the 2024 International Fire Code. While not opposed to the recommendation as submitted, the OSFM Technical Services Unit (TSU) wrote a revised concise version retaining the originals key components. Both versions were presented to the OFCAB.

Amendment Summary – Updates Section 1205.5 to include maintenance requirements, allowing fire code officials to mandate increased clear areas around panels based on site conditions such as wind and slope. Adds a subsection for large private solar farms, requiring qualified maintenance staff, construction documentation, owner's manuals, and a fire risk mitigation plan addressing arc faults, access, and water supplies.

Justification/Rationale – With increasing solar farm prevalence, this amendment mitigates fire hazards from aging equipment and vegetation growth, enhancing fire department oversight.

Fiscal or Operational Impact – No impact, as requirements align with existing NEC standards.

Stakeholder Input – Industry was contacted concerning this code recommendation and industry did not have any comments.

OFCAB Recommendation – Unanimously approved the OSFM TSU revised version.

20. Aerial Fire Apparatus Access Road Building Proximity: Appendix D105.3

Code Change Type – Modification

Purpose – Allows fire code officials to designate access road locations based on the need to reach a building's corner for aerial ladder operations.

Background – The Oregon Fire Code Committee identified that International Fire Code language does not explicitly address access to building corners, critical for aerial ladder placement.

Amendment Summary – Adds "or corner" to Appendix D105.3, specifying that access roads may be designated to reach a building's corner.

Justification/Rationale – Fire departments often position aerial ladders at building corners, for example the A/B corner for roof access, and this change enhances firefighter safety by clarifying this need.

Fiscal or Operational Impact – No impact on either the jurisdiction or owners.

Stakeholder Input – None.

OFCAB Recommendation – Unanimously approved.

21. Section 1006.3.4.2 – Single-exit Stairway for Group R-2 dwelling units

Code Change Type – New section

Purpose – Supports 2025 Oregon Structural Specialty Code (OSSC) Appendix Q which provides provisions allowing a single exit stairway to serve certain apartment buildings not greater than four stories above grade plane.

Background – HB 3395 (2023) required the Building Codes Division (BCD) to adopt amendments to the OSSC to allow construction of these types of buildings to help meet Oregon's affordable housing needs. BCD held meetings during its code adoption process in the summer of 2024, creating its Appendix Q.

Amendment Summary – Our OFC amendment duplicates a part of the OSSC requirements in their Appendix Q. It states that the "local fire service" may approve the adoption of Appendix Q by the local building official, with its provisions to allow single stair exits.

Justification/Rationale – All BCD structural amendments to Chapter 10, "Means of Egress" of the OSSC, are duplicated in the Oregon Fire Code.

Fiscal or Operational Impact – This change effects the fire service in several ways. First, it places the initial decision to allow single stair apartments within

the jurisdiction of a local building official on the fire department or fire departments. Ultimately, it may also require those fire departments to alter their IGA with that building official as required by ORS 455.150. Last, and most importantly, it is still unclear if the fire department has the authority to disapprove of a proposed new apartment building based on site conditions on a case-by-case basis. The lack of being able to make that determination could severely impact the fire department's ability to conduct effective fireground operations with tall ladders at multi-family housing with only one way out and.

Stakeholder Input – All stakeholder meetings on the structural change for the building code were conducted by BCD. As a structural change, no stakeholder input was required from OSFM.

BCD Structures Board Recommendation – Unanimously recommended approval of OSSC Appendix Q.

22. Oregon Appendix Amendments Relocated

Purpose – Reformats Oregon-specific appendices to align with potential 2027 International Fire Code (IFC) expansions.

Background – Oregon's appendices follow the IFC's lettering format (e.g., Appendix D-Fire Apparatus Access Roads). With the 2024 IFC using Appendix O, only one reserved letter remains before Oregon's Appendix Q, necessitating relocation to avoid conflicts.

Amendment Summary – Relocates four Oregon appendices: Appendix Q (Haunted Houses) to Section 3109 (Special Amusement Areas); Appendix R (Adult Foster Homes) to Chapter 49; Appendix S (Tank Vehicle to Tank Vehicle Fuel Transfer at Airports) to Section 2008 (Chapter 28, Aviation Facilities); and Appendix T (Fire Watch) to Chapter 19. No substantive changes to requirements.

Justification/Rationale – Relocating Oregon only appendices that are a mandatory part of the fire code (no option for locals to adopt) to the main code body, ensures clarity and preempts conflicts with future ICC expansions.

Fiscal or Operational Impact – No impact on either the jurisdiction or owners.

Stakeholder Input – None, as this is a format change.

OFC

OFCAB Recommendation – Unanimously approved.

Conclusion

This executive summary is designed to assist the State Fire Marshal and other code users in identifying the specific code changes that have occurred and, more importantly, in understanding the reasons behind the changes. It may also serve as a valuable resource for fire service jurisdictions to help them explain the significance and impact of the changes as they go through their local code adoption process.

The code changes selected in this executive summary were identified for several reasons, including their frequency of application, special significance or change in application within our state.

Reviewed Signature	Date
Approval Signature	Date