2024 International Fire Code Exisiting Amendment Report

	Repeal existing state amendments:		Keep Exisiting amendement as modified:		
WAC	**Title or Subject**	**2021 ___#**	**2024 ___ #**	**2024 TAG Recommendation**	**Other Comments**
			00 General		
NA	2024 IFC		Pg 2	Update to 2024 Implementation Date	
Includes Washington State Amendments (Chapter 51-50 WAC) Effective in Washington State November 1, 2026					
NA	Preface		Pg 4	Use Preface Text from 2021 Custom Books and update relevant sections to show current dates.	

Authority

The *International Fire Code* (Chapter 51-54A WAC) is adopted by the Washington State Building Code Council Pursuant to Chapters 19.27 and 70.92 RCW. These codes were first adopted by reference by the Washington State Legislature in 1974. In 1985, the Legislature delegated the responsibility of adoption and amendment of these codes to the State Building Code Council.

Code Precedence

The State Building Code Act, Chapter 19.27 RCW, establishes the following order of precedence among the documents adopted as parts of the State Building Code:

International Building Code, Standards and amendments-WAC 51-50.
International Residential Code, Standards and amendments-WAC 51-51.
International Mechanical Code , Standards and amendments-WAC 51-52.
International Fire Code, Standards and amendments-WAC 51-54A.
International Wildland-Urban Interface Code- WAC 51-55.
Uniform plumbing Code, Standards and amendments-WAC 51-56.

Where there is a conflict between codes, an earlier named code takes precedence over a later named code. In the case of a conflict between the duct insulation requirements of the *International Mechanical Code* and the duct insulation requirements of the Energy Code, the Energy Code, or where applicable, a local jurisdiction's Energy Code shall.

Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern.

Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable.

Organization and Numbering

These rules are written to allow compatible use with the *International Fire Code.* All sections which are amended, deleted or added are referenced.

Enforcement

The State Building Code Act requires that each local jurisdiction enforce the State Building Code within its jurisdiction. Any Jurisdiction can contract with another jurisdiction or an inspection agency to provide mandated enforcement activities.

Amendments to the State Building Code

The State Building Code Council has adopted review procedures and approval criteria for local amendments. These procedures are found in Chapter 51-04 WAC. The Council has exempted from its review any amendments to the administrative provisions of the various codes.

Forms for proposing statewide amendments to the *State Building Code* are available from the State Building Code Council Staff.

A. Amendments of Statewide Application: The State building Code Council will consider proposals to amend the *State Building Code* every 3 years to coincide with the

B. Local Amendments: Any jurisdiction may amend the *State Building Code* provided the amendments do not reduce the minimum performance standards of the codes. There are two areas where local amendments are limited or prohibited.

a. Prohibited Amendments: Residential provisions of the State Energy Code (WAC 51-11R and WAC 51-11C), ventilation provisions in Section 408 of the Mechanical Code (WAC 51-52) and Section M1507 of the IRC (WAC 51-51); any provision of the *International Building Code* or *International Residential Code* affecting accessibility; and standards specifically adopted in Chapters 19.27 and 19.27A RCW cannot be amended by any local jurisdiction.

b. Residential Amendments: Amendments by local jurisdictions which affect the construction of single family and multi-family residential buildings must be reviewed and approved by the State Building Code Council before such amendments can be enforced. The State Building Code Act provides the following definition.

Multi-Family Residential Building: means common wall residential buildings that consist of four or fewer units, that do not exceed two stories in height, that are less than 5,000 square feet in area, and that have a 1-hour fire-resistive occupancy separation between units.

Application forms for Council review of local amendments are available from the State Building Code Council Staff.

Washington State Building Code Council
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email: sbcc@des.wa.gov

Effective Date

These rules were adopted by the State Building Code Council on ~~November 8, 2022~~ XX/XX/XXXX. These rules are effective throughout the State on ~~March 15, 2024~~ November 1, 2026.

Building Permit Fees

The activities of the State building Code Council are supported by permit fees collected by each city and county. Section 19.27.085 of the State Building Code Act requires that a fee of $6.50 be imposed on each residential building permit and $25.00 for each commercial building permit issued by each city and county. In addition, a fee of $2.00 per unit shall be imposed for each dwelling unit after the first unit, on each building containing more than one residential unit. For the purpose of this fee; WAC 365-110-035 defines Building permits as any permit to construct, enlarge, alter, repair, move, improve, remove, convert or demolish any building or structure regulated by the Building Code. Exempt from the fee are plumbing, electrical and mechanical permits, permits issued to install a mobile/manufactured home, commercial coach or factory-built structure, or permits issued pursuant to the *International Fire Code*.

Each city and county shall remit monies collected to the state treasury quarterly. No remittance is required until a minimum of $50.00 has accumulated.

These permit fees are the amounts current in January ~~2023~~ 2026 . Such Fees may be changed by the State Legislature.

Opinions

RCW 19.27.031 grants the council authority to render opinions relating to the Building Code at the request of a local code official. For the purposes of this section, the term ”code official” means the local or state official, or their designee, responsible for implementation and enforcement of the specific code provision on which the opinion is

At the request of a code official, the council will issue opinions relating to the codes adopted under 19.27, 19.27A, and 70.92 RCW, and council amendments to the model codes. At the request of a local code official, the council may issue opinions on the applicability of WAC 51-04-030 to a local government ordinance regulating construction. Council related opinions may be developed and approved by a standing committee of the council.

Opinions approved by a standing committee may be reviewed and modified by the council.

	Arrangement and Format of the 2024 IFC		Pg 14	Keep Inserted Ch 49	

Chapter 49 Fixed Guideway Transit and Passenger Rail Systems

Chapter 49 contains Washington State amendments to NFPA 130

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CHAPTER 49 FIXED GUIDEWAY TRANSIT AND PASSENGER RAIL SYSTEMS

51-54A-001	Authority	NA	NA	Maintain WAC language as is	

WAC 51-54A-001 AUTHORITY

These rules are adopted under the authority of Chapter 19.27 RCW.

51-54A-002	Purpose	NA	NA	Maintain WAC language as is	

WAC 51-54A-002 PURPOSE

The purpose of these rules is to implement the provisions of Chapter 19.27 RCW, which provides that the State Building Code Council shall maintain the State Building Code in a status which is consistent with the purpose as set forth in RCW 19.27.020. In maintaining the codes the Council shall regularly review updated versions of the codes adopted under the act, and other pertinent information, and shall amend the codes as deemed appropriate by the Council.

51-54A-003	International Fire Code	NA	NA	Update for the 2024 Code Potential Changes here with adoption by reference only changes.	

WAC 51-54A-003 INTERNATIONAL FIRE CODE

The ~~2021~~ 2024 edition of the International Fire Code published by the International Code Council is hereby adopted by reference with the following additions, deletions, and

51-54A-007	Exceptions	NA	NA	Maintain WAC language as is	

WAC 51-54A-007 EXCEPTIONS

The exceptions and amendments to the International Fire Code contained in the provisions of Chapter 19.27 RCW shall apply in case of conflict with any of the provisions of th

Codes referenced which are not adopted through RCW 19.27.031 or chapter 19.27A RCW shall not apply unless specifically adopted by the authority having jurisdiction.

The provisions of this code do not apply to temporary growing structures used solely for the commercial production of horticultural plants including ornamental plants, flowers, vegetables, and fruits. “Temporary growing structure” means a structure that has the sides and roof covered with polyethylene, polyvinyl, or similar flexible synthetic material and is used to provide plants with either frost protection or increased heat retention. A temporary growing structure is not considered a building for

The provisions of this code do not apply to the construction, alteration, or repair of temporary worker housing except as provided by rule adopted under chapter 70.114A RCW or chapter 37, Laws of 1998 (2SSB 6168). "Temporary worker housing" means a place, area, or piece of land where sleeping places or housing sites are provided by an employer for his or her employees or by another person, including a temporary worker housing operator, who is providing such accommodations for employees, for temporary, seasonal occupancy, and includes "labor camps" under RCW 70.54.110.

The manufacture, storage, handling, sale and use of fireworks shall be governed by chapter 70.77 RCW and by chapter 212-17 WAC and local ordinances consistent with chapter 212-17 WAC.

51-54A-008	Implementation	NA	NA	Keep Exisiting amendement as modified:	

WAC 51-54A-008 IMPLEMENTATION

The International Fire Code adopted by Chapter **51-54A** WAC shall become effective in all counties and cities of this state on ~~March 15, 2024~~ November 1, 2026 .

01 Scope and Administration					
51-54A-105	Lithium Batteries	105.5.14.1	105.5.29	Repeal amendment. Model Code Language is identical	

105.5.29 Lithium batteries. An operational permit is required for an accumulation of more than 15 cubic feet (0.42 m) of lithium- ion and lithium metal batteries, where

51-54A-105	Mobile Food Preparation Vehicles	105.5.32	105.5.34	Keep Existing Amendment with renumbering and editorial model code change. Check 320 for exceptions for display vehicles.	

105.5.34 Mobile food preparation vehicles. An operational permit is required for mobile ~~food~~ preparation vehicles equipped with appliances that produce smoke or grease-

51-54A-105	Underground Supply Piping for Automatic Sprinkler System	105.6.25	105.5.26	Keep Existing Amendment and renumber to follow new sections in 2024 IFC.	

[WA} 105.6.26 Underground supply piping for automatic sprinkler system . A construction permit is required for the installation of the portion of the underground water supply piping, public or private, supplying a water-based fire protection system. The permit shall apply to all underground piping and appurtenances downstream of the first control valve on the lateral piping or service line from the distribution main to 1 foot above finished floor of the facility with the fire protection system. Maintenance performed in accordance with this code is not considered to be a modification and does not require a permit.

Exceptions:

1. When the underground piping is installed by the aboveground piping contractor.
2. Underground piping that serves a fire protection system installed in accordance with NFPA 13D.

02 Definitions					
51-54A-0202	Adult Family Home	202	202	Keep Existing Amendment	

[WA] ADULT FAMILY HOME A dwelling, licensed by the state of Washington department of social and health services, in which a person or persons provide personal care, special care, room and board to more than one but not more than six adults who are not related by blood or marriage to the person or persons providing the services. An existing adult family home may provide services to up to eight adults upon approval from the department of social and health services under RCW 70.128.066 and in accordance with Section 903.					
51-54A-0202	Alert Signal	202	202	Keep Existing Amendment	
[WA] ALERT SIGNAL A distinctive signal indicating the need for trained personnel and occupants to initiate a specific action, such as shelter-in-place.					
51-54A-0202	Alert System	202	202	Keep Existing Amendment	
[WA] ALERT SYESTEM Approved devices, equipment and systems or combinations of systems used to transmit or broadcast an alert signal					
51-54A-0202	Assisted Living Facility	202	202	Keep Existing Amendment	
[WA] ASSISTED LIVING FACILITY. A home or other institution, licensed by the state of Washington, providing housing, basic services and assuming general responsibility for the safety and well-being of residents under chapters 18.20 RCW and 388-78A WAC. These facilities may provide care to residents with symptoms consistent with dementia requiring additional security measures.					
51-54A-0202	Child Care	202	202	Keep Existing Amendment	
[WA] CHILD CARE . For the purposes of these regulations, child care is the care of children during any period of a 24-hour day.					
51-54A-0202	Child Care, Family Home	202	202	Keep Existing Amendment	
[WA] CHILD CARE, FAMILY HOME . A child care facility, licensed by Washington state, located in the dwelling of the person or persons under whose direct care and supervision the child is placed, for the care of 16 or fewer children, including children who reside at the home.					
51-54A-0202	Cluster	202	202	Keep Existing Amendment	
[WA] CLUSTER. Clusters are multiple portable school classrooms separated by less than the requirements of the building code for separate buildings.					
51-54A-0202	Covered Boat Moorage	202	202	Keep Existing Amendment	
[WA] COVERED BOAT MOORAGE . A pier or system of floating or fixed access ways to which vessels on water may be secured and any portion of which are covered by a roof.					
51-54A-0202	Custodial Care	202	202	Keep Existing Amendment	Review IBC Language for correlation
[WA][BG] CUSTODIAL CARE. Assistance with day-to-day living tasks; such as assistance with cooking, taking medication, bathing, using toilet facilities and other tasks of daily living. Custodial care includes persons receiving care who have the ability to respond to emergency situations and may receive limited verbal or physical assistance. ~~and~~ These care recipients may evacuate at a slower rate and/or who have mental and psychiatric complications.					
51-54A-0202	Electrical Code	202	202	Keep Existing Amendment	
[WA] ELECTRICAL CODE . The National Electrical Code, promulgated by the National Fire Protection Association, as adopted by rule or local ordinance under the authority of chapter 19.28 RCW.					
51-54A-0202	Emergency Responder Communications Enhancement System (ERCES)	202	202	Repeal Amendment. Model Code Language is identical	Proposal Needed

EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM (ERCES). An infrastructure solution installed within a build- ing to enhance the communications capabilities for first responders that utilizes solutions such as a signal booster, voting receiver, base station or other technology capable of enhancing the radio frequency (RF) to ensure effective public safety communications.

51-54A-0202	Frequency	202	202	Repeal Amendment. Model Code Language is identical	Proposal Needed

FREQUENCY. The particular waveband at which a communications system broadcasts or transmits.

51-54A-0202	Frequency Licencse Holder(s)	202	202	Repeal Amendment. Model Code Language is almost identical	Proposal Needed

[WA] FREQUENCY LICENSE HOLDER(S). The person(s) or entity(s) that ~~is~~ are issued the license from the frequency licensing authority of the United States or other country of jurisdiction for the frequencies being used by both the in-building emergency responder communications enhancement system and the emergency services communications system that it enhances.

51-54A-0202	Frequency Licensing Authority	202	202	Repeal Amendment. Model Code Language is identical	Proposal Needed

FREQUENCY LICENSING AUTHORITY. The government authority in a country or territory that issues frequency licenses for the use of communications frequencies by authorized entities and individuals.

51-54A-0202	Gravuty-Operated Drop Out Vents	202	202	Keep Existing Amendment	

[WA] GRAVITY-OPERATED DROP OUT VENTS . Automatic smoke and heat vents containing heat-sensitive glazing designed to shrink and drop out of the vent openings when exposed to fire.

51-54A-0202	Hospice Care Center	202	202	Keep Existing Amendment	

[WA] HOSPICE CARE CENTER. A building or portion thereof used on a 24-hour basis for the provision of hospice services to terminally ill inpatients.

51-54A-0202	LIMITED VERBAL OR PHYSICAL ASSISTANCE	202	202	Keep Existing Amendment	

[WA] **LIMITED VERBAL OR PHYSICAL ASSISTANCE** . Persons who, because of age, physical limitations, cognitive limitations, treatment or chemical dependency, and may not independently recognize, respond, or evacuate without limited verbal or physical assistance during an emergency situation. Verbal assistance includes prompting, giving, and repeating instructions. Physical assistance includes assistance with transfers to walking aids or mobility devices and assistance with egress.

51-54A-0202	MOBILE FOOD PREPARATION VEHICLES	202	202	Keep Existing Amendment	

MOBILE FOOD PREPARATION VEHICLE~~S~~. Mobile food preparation vehicles that are equipped with appliances ~~contain cooking equipment~~ that produce smoke or grease-laden vapors or utilize LP-gas systems or CNG systems for the purpose of preparing and serving food to the public. Vehicles intended for private recreation shall not be considered mobile food preparation vehicles.

51-54A-0202	MOTOR VEHICLE	202	202	Keep Existing Amendment	

MOTOR VEHICLE . Includes, but not limited to, a vehicle, machine, tractor, trailer or semitrailer, or any combination thereof, propelled or drawn by mechanical power and designed for use upon the highways in the transportation of passengers or property. It does not include a vehicle, locomotive or car operated exclusively on a rail or rails, or a trolley bus operated by electric power derived from a fixed overhead wire, furnishing local passenger transportation similar to street-railway service. The term "motor vehicle" also includes freight containers or cargo tanks used, or intended for use, in connection with motor vehicles.					
51-54A-0202	NIGHTCLUB	202	202	Keep Existing Amendment	
NIGHTCLUB . An A-2 Occupancy use in which the aggregate area of concentrated use of unfixed chairs and standing space that is specifically designated and primarily used for dancing or viewing performers exceeds 350 square feet (32.5 m2), excluding adjacent lobby areas. "Nightclub" does not include theaters with fixed seating, banquet halls, or lodge halls.					
51-54A-0202	Occupancy Classification	202	203	Keep Existing Amendment. Need to renumber and format into updated model code structure.	
OCCUPANCY CLASSIFICATION. For the purposes of this code, certain occupancies are defined as follows All definitions under this section will be included in the significant changes report with new locations					
	Institutional Group I-1	202	203		
	Group I-2	202	203		
	Five or fewer persons receiving care	202	203		
	Family home childcare	202	203		
	Adult care facility	202	203		
	Child care facility	202	203		
	Residential Group R	202	203		
	R-1	202	203		
	R-2	202	203		
	R-3	202	203		
	Care facilities within a dwelling	202	203		
	Adult family homes, family home childcare	202	203		
	Foster family care homes	202	203		
51-54A-0202	PORTABLE SCHOOL CLASSROOM	202	202	Keep Existing Amendment	
PORTABLE SCHOOL CLASSROOM . A prefabricated structure consisting of one or more rooms with direct exterior egress from the classroom(s). The structure is transportable in one or more sections, and is designed to be used as an educational space with or without a permanent foundation. The structure shall be capable of being demounted and relocated to other locations as needs arise.					

51-54A-0202	POWERED MICROMOBILITY DEVICES	202	202	Repeal Amendment. Model Code Language includes a new definition worded slightly different than existing amendment	Proposal Needed
POWERED MICROMOBILITY DEVICES . Motorized bicycles, motorized scooters and other personal mobility devices powered by a ~~lithium-ion or lithium metal~~ rechargeable battery. The term does not include motor vehicles that are required to be registered with the Department of Motor Vehicles for the state or jurisdiction					
51-54A-0202	RECALL SIGNAL	202	202	Keep Existing Amendment	
[WA] **RECALL SIGNAL** . An electrically or mechanically operated signal used to recall occupants after an emergency drill or to terminate a shelter-in-place event that shall be distinct from any alarm or alert signal used to initiate an emergency plan, or other signals.					
51-54A-0202	SHELTER-IN-PLACE	202	202	Keep Existing Amendment	
[WA] **SHELTER-IN-PLACE** . An emergency response used to minimize exposure of facility occupants to chemical or environmental hazards by taking refuge in predetermined interior rooms or areas where actions are taken to isolate the interior environment from the exterior hazard.					
51-54A-0202	SPECIAL HAZARDS SUPPRESSION SYSTEMS	202	202	Keep Existing Amendment	
[WA] SPECIAL HAZARDS SUPPRESSION SYSTEMS . Wet-chemical systems (NFPA 17A), Dry-chemical systems (NFPA 17), Foam systems (NFPA 11), Carbon dioxide systems (NFPA 12), Halon systems (NFPA 12A), Clean-agent systems (NFPA 2001), Automatic water mist systems (NFPA 750), Aerosol fire-extinguishing systems (NFPA 2010), and Explosion prevention systems (NFPA 69).					
03 General Requirements					
51-54A-0301	Permits	301.2	301.2	Repeal amendment. Model Code Language picks up Chapter 320 for Lithium Batteries.	Note: 2021 Chapter 320 was additive Manufacturing. Consider amending to include 2024 Ch19 Additive Manufacturing. Check ICC Errata
301.2 **Permits**. Permits shall be required as set forth in Section 105.5 for the activities or uses regulated by Sections 306, 307, 308, 315, 320 and 321.					
51-54A-0302	Definitions.	301.2	301.2	Repeal Existing amendment. Mobile Food Preparation Vehicle Sectio 319 was relocated to new Chapter 4106. New Model Code Language adds New definition VALET TRASH COLLECTION. No amendments needed to this section.	
SECTION 302—DEFINITIONS					
51-54A-0307	Authorization.	307.2.1	307.2.1	Maintain Existing Amendment	

307.2.1 **Authorization**. Where required by state or local law or regulations, open burning shall only be permitted with prior approval from the state or local air and water quality management authority, provided that all conditions specified in the autho- rization are followed. See also chapter 173-425 WAC.

51-54A-0307	Recreational fires	307.4.2	307.4.2	Modify existing amendment to include altered model code language "(7620 mm)" and "that", while maintaining reference to WAC	

307.4.2 **Recreational fires**. Recreational fires shall not be conducted within 25 feet ~~(7620 mm)~~ of a structure or combustible material. Conditions ~~that~~ which could cause a fire to spread within 25 feet ~~(7620 mm)~~ of a structure shall be eliminated prior to ignition. See also chapter 173-425 WAC.

51-54A-0308	Religious Ceremonies	308.1.7	308.1.8	Maintain existing amendment. Renumber to align with 2024 code	

308.1.8 **Religious ceremonies**. ~~Where, in the opinion of the fire code official, adequate safeguards have been taken,~~ participants in religious ceremonies shall not be precluded from carrying ~~are allowed to carry~~ hand-held candles. See RCW 19.27.031(3) ~~Hand-held candles shall not be passed from one person to another while lighted.~~

51-54A-0308	Aisles and exits.	308.1.7.1	308.1.9	Maintain existing amendment. Renumber to align with 2024 code	Potential Amendment Needed to reference Ch 10 Aisle/Exit Width

308.1.9 **Aisles and exits.** Candles shall be prohibited in areas where occupants stand, or in an aisle or exit.
Exception: Candles used in religious ceremonies.

51-54A-0308	Decorative open flame tables.	308.1.9	308.1.11	Maintain existing amendment. Renumber to align with 2024 code	

308.1.11 **Decorative open flame tables.** Gas-fired portable or fixed open flame fire tables and fireplaces are required to be provided with approved protection devices to prevent occupants from using flame, and from flame being exposed to combustible material. A fire extinguisher shall be located within 75 feet (22 860 mm) of travel distance or as approved. Where located indoors, the supply gas valve shall be interlocked with building fore alarm and/or fire sprinklers, where provided.

51-54A-0314	Vehicles	314.4	314.4	Repeal existing amendment. Aside from editorial differences the Model Code language is the same as the WA state amendment.	

314.4 **Vehicles**. Liquid-~~fueled~~ or gas~~eous~~-fueled vehicles, boats, aircraft ~~boats~~ or other motorcraft shall not be located indoors except as follows:
1. The engine starting system is made inoperable or ignition batteries are disconnected except where the fire code official requires that the batteries remain connected to maintain safety features.
2. Fuel in fuel tanks does not exceed any of the following:
2.1. Class I, II and III liquid fuel does not exceed one-quarter tank or 5 gallons (19 L), whichever is less.
2.2. LP gas does not exceed one-quarter tank or 6.6 gallons (25 L), whichever is less.
2.3. CNG does not exceed one-quarter tank or 630 cubic feet (17.8 m3), whichever is less.
2.4. Hydrogen does not exceed one-quarter tank or 2,000 cubic feet (57 m3), whichever is less.
3. Fuel tanks and fill openings are closed and sealed to prevent tampering.
4. Vehicles, aircraft, boats or other motorcraft equipment are not fueled or defueled within the building.

51-54A-0319	Mobile Food Preparation Vehicles: General	319.1	4106.1	Repeal existing amendment "51-54A-0319 Reserved". Section has moved to new Chapter 41. Create amendment in new Ch 41 and adopt additional model code language into existing amendment (new Language shown in ~~Blue Strikeout~~.)	See Significant Changes for Chapter 41
4106.1 **General**. Mobile food preparation vehicles that are equipped with appliances that produce smoke or grease-laden vapors or utilize LP-gas systems or CNG systems ~~for the purpose of preparing, cooking or serving food~~ shall comply ~~with NFPA 96 and~~ this section. ~~Indoor use of mobile food preparation vehicles is prohibited unless approved by the fire code official.~~					
51-54A-0321	Artificial combustible vegetation on roofs and near buildings.	321.1	321.1	Maintain existing amendment	
321.1 **Artificial combustible vegetation on roofs and near buildings.** Artificial combustible vegetation exceeding 6 feet (1829 mm) in height and permanently installed outdoors within 5 feet (1524 mm) of a building or on the roof of a building shall comply with Section 807.4.1. The placement of artificial combustible vegetation shall also comply with Sections 806.3 and 807.4.2. **Exceptions:** 1. Artificial decorative vegetation located more than 30 feet (9144 mm) from the exterior wall of a building. 2. Artificial decorative vegetation used at structures regulated by the International Residential Code.					
51-54-0322	General	322.1	320.1	Repeal existing amendment Model Code language is the same as WA amendment	
320.1 **General**. The storage of lithium-ion and lithium metal batteries shall comply with Section 320. **Exceptions**: 1. New or refurbished batteries installed in the equipment, devices or vehicles they are designed to power. 2. New or refurbished batteries packed for use with the equipment, devices or vehicles they are designed to power. 3. Batteries in original retail packaging that are rated at not more than 300 watt-hours for lithium-ion batteries or contain not more than 25 grams of lithium metal for lithium metal batteries. 4. Temporary storage of batteries or battery components during the battery manufacturing process prior to completion of final quality control checks. 5. Temporary storage of batteries during the vehicle manufacturing or repair process.					
51-54-0322	Permits	322.2	320.2	Repeal existing amendment Model Code language is the same as WA amendment	Model Code language contains incorrect reference See correction in Green
320.2 **Permits.** Permits shall be required for an accumulation of more than 15 cubic feet (0.42 m3) of lithium-ion and lithium metal batteries, other than batteries listed in the exceptions to Section 320.1 ~~321.1~~, as set forth in Section 105.5.29 ~~105.5.28~~.					

51-54A-0322	Fire Safety Plan	322.3	320.3	Repeal existing amendment Model Code language is the same as WA amendment	Model Code language contains incorrect reference See correction in Green
320.3 **Fire safety plan**. A fire safety plan shall be provided in accordance with Section ~~404~~ 403.10.6. In addition, the fire safety plan shall include emergency response actions to be taken upon detection of a fire or possible fire involving lithium-ion or lithium metal battery storage.					
51-54A-0322	Storage Requirements	322.4	320.4	Repeal existing amendment Model Code language is the same as WA amendment	
320.4 **Storage requirements**. Lithium-ion and lithium metal batteries shall be stored in accordance with Section 320.4.1, 320.4.2 or 320.4.3, as applicable.					
51-54A-0322	Limited Indoor Storage in Containers	322.4.1	320.4.1	Repeal existing amendment Model Code language is the same as WA amendment	
320.4.1 **Limited indoor storage in containers.** Not more than 15 cubic feet (0.42 m3) of lithium-ion or lithium metal batteries shall be permitted to be stored in containers in accordance with ~~all of~~ the following: 1. Containers shall be open top and constructed of noncombustible materials or shall be approved for battery collection. 2. Individual containers and groups of containers shall not exceed a capacity of 7.5 cubic feet (0.21 m3). 3. A second container or group of containers shall be separated by not less than 3 feet (914 mm) of open space or 10 feet (3048 mm) of space that contains combustible materials. 4. Containers shall be located not less than 5 feet (1524 mm) from exits or exit access doors.					
51-54A-0322	Indoor Storage Areas	322.4.2	320.4.2	Repeal existing amendment Model Code language is the same as WA amendment	
320.4.2 **Indoor storage areas**. Indoor storage areas for lithium-ion and lithium metal batteries, other than those complying with Section 320.4.1, shall comply with Sections 320.4.2.1 through 320.4.2.6.					
51-54A-0322	Technical Opinion and Report	322.4.2.1	320.4.2.1	Repeal existing amendment Model Code language is the same as WA amendment	
320.4.2.1 **Technical opinion and report.** Where required by the fire code official A technical opinion and report complying with Section 104.2.2 shall be prepared to evaluate the fire and explosion risks associated with the indoor storage area and to make recommendations for fire and explosion protection. The report shall be submitted to the fire code official and shall require the fire code official's approval prior to issuance of a permit. In addition to the requirements of Section 104.2.2, the technical opinion and report shall specifically evaluate the following: 1. The potential for deflagration of flammable gases released during a thermal runaway event. 2. The basis of design for an automatic sprinkler system or other approved fire suppression system. Such design basis shall reference relevant full-scale fire testing or another approved method of demonstrating sufficiency of the recommended design.					
51-54A-0322	Construction Requirements	322.4.2.2	320.4.2.2	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.2.2 **Construction requirements**. Where indoor storage areas for lithium-ion and lithium metal batteries are located in a building with other uses, battery storage areas shall be separated from the remainder of the building by 2-hour rated fire barriers or horizontal assemblies. Fire barriers shall be constructed in accordance with Section 707 of the International Building Code, and hori- zontal assemblies shall be constructed in accordance with Section 711 of the International Building Code.

Exceptions:

1. Where battery storage is contained in one or more approved prefabricated portable structures providing a complete 2- hour fire-resistance-rated enclosure, fire barriers and horizontal assemblies are not required.
2. Where battery storage is limited to new batteries in packaging that has been demonstrated to and approved by the fire code official as sufficient to isolate a fire in packaging to the package interior, fire barriers and horizontal assemblies are not required.

51-54A-0322	Fire Protection Systems	322.4.2.3	320.4.2.3	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.2.3 **Fire protection systems**. Indoor storage areas for lithium-ion and lithium metal batteries shall be protected by an automatic sprinkler system complying with Section 903.3.1.1 or an approved alternative fire suppression system. The system design shall be based on recommendations in the approved technical opinion and report required by Section 320.4.2.1.

51-54A-0322	Fire Alarm Systems	322.4.2.4	320.4.2.4	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.2.4 **Fire alarm systems**. Indoor storage areas for lithium-ion and lithium metal batteries shall be provided with an approved automatic fire detection and alarm system complying with Section 907. The fire detection system shall use air-aspi- rating smoke detection, radiant energy-sensing fire detection or both.

51-54A-0322	Explosion Control	322.4.2.5	320.4.2.5	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.2.5 **Explosion control.** Where the approved technical opinion and report required by Section 320.4.2.1 recommends explosion control, explosion control complying with Section 911 shall be provided.

51-54A-0322	Reduced Requirements for Storage of Partially Charged Batteries	322.4.2.6	320.4.2.6	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.2.6 **Reduced requirements for storage of partially charged batteries**. Indoor storage areas for lithium-ion and lith- ium metal batteries with a demonstrated state of charge not exceeding 30 percent shall not be required to comply with Sections 320.4.2.1, 320.4.2.2 and 320.4.2.5, provided that procedures for limiting and verifying that the state of charge will not exceed 30 percent have been approved.

51-54A-0322	Outdoor Storage	322.4.3	320.4.3	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.3 **Outdoor storage.** Outdoor storage of lithium-ion or lithium metal batteries shall comply with Sections 320.4.3.1 through 320.4.3.3.

51-54A-0322	Distance From Storage to Exposures	322.4.3.1	320.4.3.1	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.3.1 **Distance from storage to exposures.** Outdoor storage of lithium-ion or lithium metal batteries, including storage beneath weather protection in accordance with Section 414.6.1 of the International Building Code, shall comply with one of the following:
1. Battery storage shall be located not less than 20 feet (6096 mm) from any building, lot line, public street, public alley, public way or means of egress.
2. Battery storage shall be located not less than 3 feet (914 mm) from any building, lot line, public street, public alley, public way or means of egress, where the battery storage is separated by a 2-hour fire-resistance-rated assembly without openings or penetrations and extending 5 feet (1524 mm) above and to the sides of the battery storage area.
3. Battery storage shall be located not less than 3 feet (914 mm) from any building, lot line, public street, public alley, public way or means of egress, where batteries are contained in approved, prefabricated portable structures provid- ing a complete 2-hour fire-resistance-rated enclosure.

51-54A-0322	Storage Area Limits and Separation	322.4.3.2	320.4.3.2	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.3.2 **Storage area size limits and separation.** Outdoor storage areas for lithium-ion or lithium metal batteries, including storage beneath weather protection in

51-54A-0322	Fire Detection	322.4.3.3	320.4.3.3	Repeal existing amendment Model Code language is the same as WA amendment	

320.4.3.3 **Fire detection**. Outdoor storage areas for lithium-ion or lithium metal batteries, regardless of whether such areas are open, under weather protection or in a prefabricated portable structure, shall be provided with an approved automatic fire detection and alarm system complying with Section 907. The fire detection system shall use radiant energy-sensing fire detection.

51-54A-0323	General	323.1	322.1	Repeal existing amendment Model Code language is the same as WA amendment Powered Industrial trucks Are included in Section 309	Consider inclusion of Powered Industrial Trucks

General. Lithium-ion and lithium metal battery powered micromobility devices and powered industrial trucks shall be operated and maintained in accordance with this section.
Exceptions:
1. Storage, repair and charging in residential occupancies of powered mobility devices, provided that such devices are for personal use by its owner.
2. Charging of a single powered mobility device in any occupancy by its owner.

51-54A-0323	Prohibited Locations	323.1.1	322.1.1	Repeal existing amendment Model Code language is the same as WA amendment Powered Industrial trucks Are included in Section 309	Consider inclusion of Powered Industrial Trucks

322.1.1 **Prohibited locations**. The use of a residential occupancy as a business for the charging of commercially owned powered ~~micro~~mobility devices or powered industrial trucks as part of a rental or sales service shall not be permitted.

51-54A-0323	Battery Chargers and Equipment	323.2	322.2	Repeal existing amendment Model Code language is the same as WA amendment Powered Industrial trucks Are included in Section 309	Consider inclusion of Powered Industrial Trucks
322.2 Battery chargers and equipment. Powered micromobility devices and powered industrial trucks shall be charged in accordance with their listing and the					
51-54A-0323	Listing	323.3	322.3	Repeal existing amendment Model Code language is the same as WA amendment	
322.3 Listing. Powered micromobility devices shall be listed and labeled in accordance with UL 2272 or UL 2849, as applicable.					
51-54A-0323	Battery Charging Areas	323.4	322.4	Repeal existing amendment Model Code language is the same as WA amendment Powered Industrial trucks Are included in Section 309	Consider inclusion of Powered Industrial Trucks
322.4 **Battery charging areas.** Where approved, powered micromobility devices shall permitted to be charged in a room or area that complies with all of the following: 1. Only listed devices utilizing listed charging equipment shall be permitted to be charged. 2. Is provided with sufficient electrical receptacles to allow the charging equipment for each device to be directly connected to a receptacle. Extension cords and relocatable power taps shall not be used. 3. Storage of combustible materials, combustible waste or hazardous materials shall not be permitted. 4. The charging operation shall not be conducted in or obstruct any required means of egress. 5. Removable storage batteries shall not be stacked or charged in an enclosed cabinet unless the cabinet is specially designed and approved for such purpose. 6. A minimum distance of 18 inches (457.2 mm) shall be maintained between each removable storage battery during charging operations unless each battery is isolated from neighboring batteries by an approved fire-resistant material. 7. A minimum of 18 inches (457.2 mm) shall be maintained between the location of the battery on each powered micromobility devices or powered industrial truck during charging operations. 8. The indoor room or area shall be protected by a fire alarm system utilizing air-aspirating smoke detectors or radiant energy- sensing fire detection.					
51-54A-0323	Fire Safety Plan	323.5	322.5	Repeal existing amendment Model Code language is the same as WA amendment	
322.5 **Fire safety plan**. A fire safety plan shall be provided in accordance with Section 403.10.6. In addition, the fire safety plan shall include emergency response actions to be taken upon detection of a fire or possible fire involving lithium-ion or lithium metal battery storage.					
04 Emergency Planning and Preparedness					
51-54-0401	Approval	401.2	401.2	Maintain Amendment	
401.2 Approval. Where required by the fire code official ~~this code~~, fire safety plans, emergency procedures and employee training programs shall beapproved by the fire					
51-54A-0402	Definitions	402.1	402.1	Maintain Amendment	
402.1 Definitions. The following terms are defined in Chapter 2: *ALARM SIGNAL.* *ALERT SIGNAL.*					

ALERT SYSTEM.
EMERGENCY
EVACUATION DRILL .
LOCKDOWN.
SHELTER -IN-PLACE .
RECALL SIGNAL .

51-54A-0403	Assembly Points and fire operations	403.4.3	403.4.3	Maintain Amendment	

403.4.3 **Assembly points and fire operations**. ~~Outdoor assembly areas shall be designated and shall be located a safe distance from the building being evacuated so as to avoid interference with fire department operations. The assembly areas shall be arranged to keep each class separate to provide accountability of all individuals.~~ Assembly Points shall not be in areas likely to be utilized for fire service operations.

51-54A-0403	Group R-2 Occupancies	403.9.2	403.9.2	Maintain Amendment	

403.9.2 Group R-2 occupancies . Group R-2 occupancies shall comply with Sections 403.9.2.1 through ~~403.9.2.3~~ 403.9.2.4.

51-54A-0403	Group R-2 Assisted Living and Residential Care Facilities	403.9.2.4	403.9.2.4	Maintain Amendment	

403.9.2.4 Group R-2 assisted living and residential care facilities. Assisted living and residential care facilities licensed by the State of Washington shall comply with Section 403.7.1 as required for Group I-1 Condition 2 occupancies.

51-54A-0403	Buildings with Lithium-ion or Lithium Metal Battery Storage	403.10.6	403.10.6	Repeal Existing Amendment. Model Language clarifies and expands on the WA amendment language.	

403.10.6 Buildings with lithium-ion or lithium metal battery storage. An approved fire safety plan in accordance with Section 404 shall be prepared and maintained for buildings with lithium-ion or lithium metal battery storage.

403.10.6 Lithium-ion and lithium metal batteries. An approved fire safety and evacuation plan in accordance with Section 404 shall be prepared and maintained for occupancies that involve activities for the research and development, testing, manufac- turing, 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.

51-54A-0403	Crowd Managers for Gatherings Exceeding 1,000 People	403.11.3	403.11.3	Maintain Amendment	Consider repeal recommended by TAG

403.11.3 Crowd managers for gatherings exceeding 1,000 people. Where facilities or events involve a gathering of more than ~~500~~ 1,000 people, or as required by the *fire code official* , crowd managers shall be provided in accordance with Sections 403.11.3.1 through 403.11.3.3.

51-54A-0404	Lockdown Plans	404.2.3	404.2.3	Maintain Amendment	

404.2.3.2 Lockdown plans. This section is not adopted. ~~Lockdown plans shall only be permitted where such plans are approved by the fire code official and are in compliance with Sections 404.2.3.1 and 404.2.3.2.~~

~~**404.2.3.1 Lockdown plan contents.** Lockdown plans shall include the following:~~

~~1. Identification of individuals authorized to issue a lockdown order.~~

~~2.Security measures used during normal operations, when the building is occupied, that could adversely affect egress or fire department operations.~~

~~3. A description of identified emergency and security threats addressed by the plan, including specific lockdown proce- dures to be implemented for each threat condition.~~

~~4. Means and methods of initiating a lockdown plan for each threat, including:~~

~~4.1. The means of notifying occupants of a lockdown event, which shall be distinct from the fire alarm signal.~~

~~4.2. Identification of each door or other access point that will be secured.~~

~~4.3. A description of the means or methods used to secure doors and other access points.~~

~~4.4. A description of how locking means and methods are in compliance with the requirements of this code for egress and accessibility.~~

~~5. Procedures for reporting to the fire department any lockdown condition affecting egress or fire department operations.~~

~~6. Procedures for determining and reporting the presence or absence of occupants to emergency response agencies during a lockdown.~~

~~7. Means for providing two-way communication between a central location and each area subject to being secured during a lockdown.~~

~~8. Identification of the prearranged signal for terminating the lockdown.~~

~~9. Identification of individuals authorized to issue a lockdown termination order.~~

~~10. Procedures for unlocking doors and verifying that the means of egress has been returned to normal operations upon termination of the lockdown.~~

~~11. Training procedures and frequency of lockdown plan drills.~~

51-54A-0406	General	406.1	406.1	Maintain Amendment and add "and uses" after occupancies in first sentence	

406.1 General. ~~Where fire safety and evacuation plans are required by Section 403, employees shall be trained in fire emergency procedures based on plans prepared in accordance with Section 404.~~

General. Employees in the occupancies listed in Section 403 shall be trained in the emergency procedures described in their emergency plans. Training shall be based on these plans and as described in Sections 406.2 through 406.3.5.

51-54A-0406	Frequency	406.2	406.2	Maintain Amendment	

406.2 Frequency. Employees shall receive training in the contents of the emergency plans ~~fire safety and evacuation plans~~ and their duties as part of new employee orientation and at least ~~not less than~~ annually thereafter. Records ~~of training~~ shall be kept and made available to the fire code official upon request ~~maintained~~.

51-54A-0406	Employee Training Program	406.3	406.3	Maintain Amendment	

406.3 Employee training program. Employees shall be trained in fire prevention, evacuation, sheltering in place and fire safety in accordance with Sections 406.3.1 through

51-54A-0406	Emergency lockdown Training	406.3.4	406.3.4	Maintain Amendment	

406.3.4 Emergency lockdown training. This section is not adopted. ~~Where a facility has a lockdown plan, employees shall be trained on their assigned duties and procedures in the event of an emergency lockdown.~~

51-54A-0406	Emergency Shelter In Place training	406.3.5	406.3.4	Maintain Amendment	

406.3.5 Emergency shelter-in-place training . Where a facility has a shelter-in-place plan, employees shall be trained on the alert and recall signals, communication system, location of emergency supplies, the use of the incident notification and alarm system, and their assigned duties and procedures in the event of an alarm or emergency.

05 Fire Service Features					
WAC 51-54A-0503	Where required.	503.1	503.1	Recommend keeping state amendment	

503.1 Where required. Fire apparatus access roads shall be provided and maintained in accordance with ~~Sections 503.1.1 through 503.1.3.~~ locally adopted street, road, and access standards.

51-54A-0503	Buildings and Facilities	503.1.1	503.1.1	Keeping exisiting amendement:	

~~**503.1.1 Buildings and facilities.** This section is not adopted *Approved* fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the *exterior walls* of the first story of the building as measured by an *approved* route around the exterior of the building or facility.~~

~~**Exceptions:**~~

~~1. The *fire code official* is authorized to increase the dimension of 150 feet (45 720 mm) where any of the following conditions occur:~~

~~1.1. The building is equipped throughout with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.~~

~~1.2. Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an *approved* alternative means of fire protection is provided.~~

~~1.3. There are not more than two Group R-3 or Group U occupancies.~~

~~2. Where *approved* by the *fire code official*, fire apparatus access roads shall be permitted to be exempted or modified for solar photovoltaic power generation facilities.~~

51-54A-0503	Additional Access	503.1.2	503.1.2	Keeping exisiting amendement:	

~~**503.1.2 Additional access.** This section is not adopted The *fire code official* is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition of terrain, climatic conditions or other factors that could limit access.~~

51-54A-0503	High-Piled Storage	503.1.3	503.1.3	Keeping exisiting amendement:	

503.1.3 High-piled storage. This section is not adopted ~~Fire department vehicle access to buildings used for *high piled combustible storage* shall comply with the applicable provisions of Chapter 32.~~

51-54A-0503	Specifications	503.2	503.2	Keeping exisiting amendement:	

503.2 Specifications. This section is not adopted ~~Fire apparatus access roads shall be installed and arranged in accordance with Sections 503.2.1 through 503.2.8.~~

503.2.1 Dimensions. ~~Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm), exclusive of shoulders, except for *approved* security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).~~

503.2.2 Authority. ~~The *fire code official* shall have the authority to require or permit modifications to the required access widths where they are inadequate for fire or rescue operations or where necessary to meet the public safety objectives of the jurisdiction.~~

503.2.3 Surface. ~~Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.~~

503.2.4 Turning radius. ~~The required turning radius of a fire apparatus access road shall be determined by the *fire code official*.~~

503.2.5 Dead ends. ~~Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) in length shall be provided with an *approved* area for turning around fire apparatus.~~

503.2.6 Bridges and elevated surfaces. ~~Where a bridge or an elevated surface is part of a fire apparatus access road, the bridge shall be constructed and maintained in accordance with AASHTO HB-17. Bridges and elevated surfaces shall be designed for a live load sufficient to carry the imposed loads of fire apparatus. Vehicle load limits shall be posted at both entrances to bridges where required by the *fire code official*. Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces that are not designed for such use, *approved* barriers, *approved* signs or both shall be installed and maintained where required by the *fire code official*.~~

503.2.7 Grade. ~~The grade of the fire apparatus access road shall be within the limits established by the *fire code official* based on the fire department's apparatus.~~

503.2.8 Angles of approach and departure. ~~The angles of approach and departure for fire apparatus access roads shall be within the limits established by the *fire code official* based on the fire department's apparatus.~~

51-54A-0503	Marking	503.3	503.3	Keeping exisiting amendement:	

503.3 Marking. This section is not adopted ~~Where required by the *fire code official*, *approved* signs or other *approved* notices or markings that include the words "NO PARKING—FIRE LANE" shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which *fire lanes* are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.~~

51-54A-0503	Obstruction of Fire Apparatus Access Roads	503.4	503.4	Keeping exisiting amendement:	

503.4 Obstruction of fire apparatus access roads. This section is not adopted ~~Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. The minimum widths and clearances established in Sections 503.2.1 and 503.2.2 shall be maintained at all times.~~

51-54A-0503	Tarffic Calming Devices	503.4.1	503.4.1	Keeping exisiting amendement:	

503.4.1 Traffic calming devices. This section is not adopted ~~Traffic calming devices shall be prohibited unless *approved* by the *fire code official*.~~

51-54A-0507	Fire flow	507.3	507.3	recommend to keep the admendment for the exceptions	

507.3 Fire flow. Fire-flow requirements for buildings or portions of buildings and facilities shall be determined by an *approved* method.

EXCEPTIONS:

1. Fire flow is not required for structures under 500 square feet (46 m2) with a B, U or R-1 occupancy where structures are at least 30 feet (9144 mm) from any other structure and are used only for recreation.
2. In rural and suburban areas in which adequate and reliable water supply systems do not exist, the fire code official is authorized to utilize NFPA 1142 or the International Wildland-Urban Interface Code.

51-54A-0508	Separation.	508.1.2	508.1.2	recommend to keep the admendment	

508.1.2 Separation. The *fire command center* shall be separated from the remainder of the building by not less than a ~~1 hour~~ 2 hours *fire barrier* constructed in accordance with Section 707 of the *International Building Code* or *horizontal assembly* constructed in accordance with Section 711 of the *International Building Code*, or both.

51-54A-0510	510.1Emergency responder communications enhancement systems in new buildings.	510.1	510.1	repeal Existing Amendment	Review addition of Exception #4

SECTION 510—EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEMS (ERCES)

Recommend to match title from model code into WAC. C/Y WAC-A/Y

510.1 Emergency responder communications enhancement systems in new buildings. *Approved* in-building emergency responder communications enhancement system (ERCES) for emergency responders shall be provided in all new buildings. In-building ERCES within the building shall be based on the existing coverage levels of the public safety communications systems utilized by the jurisdiction, measured at the exterior of the building. The ERCES, where required, shall be of a type determined by the fire code official and the *frequency license holder(s)*. This section shall not require improvement of the existing public safety communications systems.

Exceptions:

1. Where *approved* by the building official and the *fire code official*, a wired communications system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained instead of an *approved* communications coverage system.
2. Where it is determined by the *fire code official* that the communications coverage system is not needed.
3. In facilities where emergency responder communications coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the *fire code official* shall have the authority to accept an automatically activated emergency responder communications coverage system.
4. One-story buildings not exceeding 12,000 square feet (1115 m^2) with no below-ground area(s).

51-54A-0510	Emergency responder communications enhancement system in existing buildings.	510.2	510.2	repeal Existing Amendment	WA amendment it is now in the model code

510.2 Emergency responder communications enhancement system in existing buildings. Existing buildings shall be provided with *approved* in-building emergency responder communications enhancement system for emergency responders as required in Chapter 11.

51-54A-0510	Permits	510.3	510.3.1	repeal Existing Amendment	

510.3 **Permits.** Permits for in-building emergency responder communications enhancement systems shall be in accordance with **Sections 510.3.1 and 510.3.2.** Maintenance performed in accordance with this code is not considered a modification and does not require a permit.

51-54A-0510	Technical requirements.	510.4	510.4	repeal Existing Amendment	

510.4 Technical requirements. Equipment required to provide in-building emergency responder communications enhancement shall be *listed* in accordance with UL 2524. Systems, components and equipment required to provide the in-building emergency responder communications enhancement system shall comply with Sections 510.4.1 through 510.4.2.8.

51-54A-0510	Emergency responder communications enhancement system signal strength.	510.4.1	510.4.1	repeal Existing Amendment	

510.4.1 Emergency responder communications enhancement system signal strength. The building shall be considered to have an acceptable in-building emergency responder communications enhancement system where signal strength measurements in 95 percent of all areas and 99 percent of areas designated as *critical areas* by the *fire code official* on each floor of the building meet the signal strength requirements in Sections 510.4.1.1 through 510.

51-54A-0510	Minimum signal strength into the building	510.4.1.1	510.4.1.1	recommend to keep the admendment	New model code language could potentially replace the existing amendmennt. review potential proposals

~~**510.4.1.1**~~ **Minimum signal strength into the building.** The minimum ~~*downlink*~~ inbound signal strength shall be sufficient to provide usable voice communications throughout the coverage area as specified by the *fire code official*. The ~~*downlink*~~ inbound signal level shall be a minimum of -95 dBm in 95 percent of the coverage area and 99 percent in *critical areas* and sufficient to provide not less than a Delivered Audio Quality (DAQ) of 3.0 or an equivalent signal-to-interference-plus-noise ratio (SINR) applicable to the technology for either analog or digital signals. ~~throughout the coverage area using either narrow band analog, digital or wideband LTE signals or an equivalent bit error rate (BER), or signal to interference plus noise ratio (SINR) applicable to the technology for either analog or digital signals.~~

51-54A-0510	System design.	510.4.2	510.4.2	repeal Existing Amendment	

510.4.2 System design. The in-building emergency responder communications enhancement system shall be designed in accordance with Sections 510.4.2.1 through 510.4.2.8 and NFPA 1225.

51-54A-0510	Amplification systems and components.	510.4.2.1	510.4.2.1	repeal Existing Amendment	

510.4.2.1 Amplification systems and components. Buildings and structures that cannot support the required level of in-building emergency responder communications enhancement system shall be equipped with systems and components to enhance the radio signals and achieve the required level of in-building emergency responder communications enhancement system specified in Sections 510.4.1 through 510.4.1.3. In-building emergency responder communications enhancement systems utilizing radio-frequency-emitting devices and cabling shall be *approved* by the *fire code official*. Prior to installation, all RF-emitting devices shall have the certification of the radio licensing authority and be suitable for public safety use.

51-54A-0510	Technical criteria.	510.4.2.2	510.4.2.2	repeal Existing Amendment	

510.4.2.2 Technical criteria. The *fire code official* shall maintain a document providing the specific technical information and requirements for the in-building emergency responder communications enhancement system. This document shall contain, but not be limited to, the various frequencies required, the location of radio sites, the effective radiated power of radio sites, the maximum propagation delay in microseconds, the applications being used and other supporting technical information necessary for system design.

51-54A-0510	Standby power.	510.4.2.3	510.4.2.3	repeal Existing Amendment	

510.4.2.3 Standby power. In-building emergency responder communications enhancement systems shall be provided with dedicated standby batteries or provided with 2-hour standby batteries and connected to the facility generator power system in accordance with Section 1203. The standby power supply shall be capable of operating the in-building emergency responder communications enhancement system at 100-percent system capacity for a duration of not less than 12 hours.

51-54A-0510	Signal booster requirements.	510.4.2.4	510.4.2.4	recommend to keep the admendment	review potential proposals

510.4.2.4 Signal booster requirements. If used, signal boosters shall meet the following requirements:

1. All signal booster components shall be contained in a NEMA Type 4 cabinet.
2. Battery systems used for the emergency power source shall be contained in a NEMA 3R or higher-rated cabinet.
3. Equipment shall have FCC or other radio licensing authority certification and be suitable for public safety use prior to installation.
4. Where a donor antenna exists, isolation shall be maintained between the donor antenna and all inside antennas to not less than 20dB greater than the system gain under all operating conditions.
5. Active RF-emitting devices used for in-building emergency responder communications enhancement systems shall have built-in oscillation detection and control circuitry to reduce gain and maintain operation. When a signal booster detects oscillation, a supervisory signal shall be transmitted. In the event of uncorrectable oscillation, the system shall be permitted to shut down.
6. The installation of amplification systems or systems that operate on or provide the means to cause interference on any in-building emergency responder communications enhancement network shall be coordinated and approved by the fire code official and the frequency license holder(s).

51-54A-0510	System monitoring.	510.4.2.5	510.4.2.5	recommend to keep the admendment	review potential proposals

510.4.2.5 System monitoring. The in-building emergency responder communications enhancement system shall be monitored by a listed fire alarm control unit, or where approved by the fire code official, shall sound an audible signal at a constantly attended on-site location. Automatic supervisory signals shall include the following:

1. Loss of normal AC power supply.
2. System battery charger(s) failure.
3. Signal source malfunction.
4. Failure of active RF-emitting device(s).
5. Low-battery capacity at 70 percent of the 12-hour operating capacity has been depleted.
6. Failure of critical system components.
7. The communications link between the fire alarm system and the in-building emergency responder communications enhancement system.
8. Oscillation of active RF-emitting device(s).

51-54A-0510	Additional frequencies and change of frequencies.	510.4.2.6	510.4.2.6	repeal Existing Amendment	

510.4.2.6 Additional frequencies and change of frequencies. The in-building emergency responder communications enhancement system shall be capable of modification or expansion in the event *frequency* changes are required by the FCC or other frequency licensing authorities, or additional frequencies are made available by the FCC or other frequency licensing authorities.

51-54A-0510	Design documents.	510.4.2.7	510.4.2.7	repeal Existing Amendment	

510.4.2.7 Design documents. The *fire code official* shall have the authority to require "as-built" design documents and specifications for in-building emergency responder communications enhancement systems. The documents shall be in a format acceptable to the *fire code official*.

51-54A-0510	Radio communication antenna density.	510.4.2.8	510.4.2.8	repeal Existing Amendment	

510.4.2.8 Radio communication antenna density. Systems shall be engineered to minimize the near-far effect. In-building, emergency responder communication enhancement system.

Exception: Systems where all portable devices within the same band use active power control features.

51-54A-0510	Installation requirements.	510.5	510.5	recommend to keep the admendment	

510.5 Installation requirements. The installation of the in-building emergency responder communications enhancement system shall be in accordance with ~~NFPA 1221~~ NFPA 1225 and Sections 510.5.1 through ~~510.5.5.~~ 510.5.7.

51-54A-0510	Mounting of donor antenna(s)	510.5.1	510.5.1	recommend to keep the admendment	

510.5.1 Mounting of the donor antenna(s). To maintain proper alignment with the system designed donor site, donor antennas shall be permanently affixed on the highest possible position on the building or where *approved* by the *fire code official*., ~~mounted on a movable sled~~ with a clearly visible sign stating "MOVEMENT OR REPOSITIONING OF THIS ANTENNA IS PROHIBITED WITHOUT APPROVAL FROM THE FIRE CODE OFFICIAL." shall be posted. The antenna installation shall be in accordance with the applicable requirements in the *International Building Code* for weather protection of the building envelope.

51-54A-0510	Minimum qualifications of personnel.	510.5.3	510.5.3	recommend to keep the admendment	review potential proposals

510.5.3 Minimum qualifications of personnel. The minimum qualifications of the system designer and lead ~~installation~~ acceptance test personnel shall include both of the following:

1. A valid FCC-issued general radio telephone operators license.
2. Certification of in-building system training issued by an *approved* organization or *approved* school, or a certificate issued by the manufacturer of the equipment being installed.

~~These qualifications shall not be required where demonstration of adequate skills and experience satisfactory to the *fire code official* is provided.~~

51-54A-0510	Acceptance test procedure.	510.5.4	510.5.4	recommend to keep the admendment	

510.5.4 Acceptance test procedure. Where an in-building emergency responder communications enhancement system is required, and upon completion of installation, the building owner shall have the radio system tested to verify that two-way cover- age on each floor of the building is not less than 95 percent. The test procedure shall be conducted as follows or by a method approved by the fire code official:

1. Each floor of the building shall be divided into a grid of 20 approximately equal test areas.
2. The test shall be conducted using a calibrated portable radio of the latest brand and model used by the agency talking through the agency's radio communications system or equipment approved by the fire code official.
3. Failure of more than one test area shall result in failure of the test.
4. In the event that two of the test areas fail the test, in order to be more statistically accurate, the floor shall be permitted to be divided into 40 equal test areas. Failure of not more than two nonadjacent test areas shall not result in failure of the test. If the system fails the 40-area test, the system shall be altered to meet the 95-percent coverage requirement.
5. A test location approximately in the center of each test area shall be selected for the test, with the radio enabled to verify two-way communications to and from the outside of the building through the public agency's radio communications system. Once the test location has been selected, that location shall represent the entire test area. Failure in the selected test location shall be considered to be a failure of that test area. Additional test locations shall not be permitted.
6. The gain values of all amplifiers shall be measured and the test measurement results shall be kept on file with the build- ing owner so that the measurements can be verified during annual tests. In the event that the measurement results become lost, the building owner shall be required to rerun the acceptance test to reestablish the gain values.
7. As part of the installation, a spectrum analyzer or other suitable test equipment shall be utilized to ensure spurious oscil- lations are not being generated by the subject signal booster. This test shall be conducted at the time of installation and at subsequent annual inspections.
8. Systems shall be tested using two portable radios simultaneously conducting subjective voice quality checks. One porta- ble radio shall be positioned not greater than 10 feet (3048 mm) from the indoor antenna. The second portable radio shall be positioned at a distance that represents the farthest distance from any indoor antenna. With both portable radios simultaneously keyed up on different frequencies within the same band, subjective audio testing shall be conducted and comply with DAQ levels as specified in Sections 510.4.1.1 and 510.4.1.2.

51-54A-0510	FCC compliance.	510.5.5	510.5.5	repeal Existing Amendment	

510.5.5 FCC compliance. The in-building emergency responder communications enhancement system installation and components shall comply with all applicable federal regulations including, but not limited to, FCC 47 CFR Part 90.219.					
51-54A-0510	Wiring.	510.5.6	510.5.6	recommend to keep the admendment	review potential proposals for consistency with new NFPA 1225 (2021 Code used NFPA 1221 which is renumbered to 1225)
510.5.6 **Wiring.** The backbone, antenna distribution, radiating, or any fiber optic cables shall be rated as plenum cables. The backbone cables shall be connected to the antenna distribution, radiating, or copper cables using hybrid coupler devices of a value determined by the overall design. Backbone cables shall be routed through an enclosure that matches the building's required fire-resistance rating for shafts or interior exit stairways. The connection between the backbone cable and the antenna cables shall be made within an enclosure that matches the building's fire-resistance rating for shafts or interior exit stairways, and passage of the antenna distribution cable in and out of the enclosure shall be protected as a penetration per the International Building Code.					
51-54A-0510	Identification signs.	510.5.7	510.5.7	recommend to keep the admendment	review potential proposals for consistency with new NFPA 1225 (2021 Code used NFPA 1221 which is renumbered to 1225)
510.5.7 **Identification signs.** *Emergency responder enhancement systems* shall be identified by an approved sign located on or near the fire alarm control panel or other approved location stating "This building is equipped with an *Emergency Responder Enhancement Coverage System*. Control Equipment located in ..... or as approved by the *Fire Code Official*." A sign stating "*Emergency Responder Enhancement Coverage System Equipment*" shall be placed on or adjacent to the door of the room containing the main system components.					
51-54A-0510	Maintenance.	510.6	510.6	repeal Existing Amendment	
510.6 Maintenance. The in-building emergency responder communications enhancement system shall be maintained operational at all times in accordance with Sections 510.6.1 through 510.6.4.					
51-54A-0510	Testing and proof of compliance.	510.6.1	510.6.1	recommend to keep the admendment	

510.6.1 Testing and proof of compliance. The *owner* of the building or *owner*'s authorized agent shall have the in-building emergency responder communications enhancement system inspected and tested annually or where structural changes occur, including additions or remodels that could materially change the original field performance tests. Testing shall consist of the following :

1. In-building coverage test as described in Section 510.5.4.

2. Signal boosters shall be tested to verify that the gain is the same as it was upon initial installation and acceptance or set to optimize the performance of the system.

3. Backup batteries and power supplies shall be tested under load of a period of 1 hour to verify that they will properly operate during an actual power outage. If within the 1-hour test period the battery exhibits symptoms of failure, the test shall be extended for additional 1-hour periods until the integrity of the battery can be determined.

4. All active components shall be checked to verify operation within the manufacturer's specifications.

At the conclusion of the testing, a report, which shall verify compliance with Section 510.5.4, shall be submitted to the fire code official.

51-54A-0510	Alternative in-building coverage test.	510.6.1.1	510.6.1.1	recommend to keep the admendment	

510.6.1.1 The owner of the building or owner's authorized agent shall have the in-building, emergency responder communication enhancement system inspected and tested annually or where structural changes occur including additions or remodels that could materially change the original field performance tests. Testing shall consist of the following items 1 through 7:

1. In-building coverage test as required by the fire code official as described in Section 510.5.4 or 510.6.1.1.

EXCEPTION: Group R Occupancy annual testing is not required within dwelling units.

2. Signal boosters shall be tested to verify that the gain/output level is the same as it was upon initial installation and acceptance or set to optimize the performance of the system.

3. Backup batteries and power supplies shall be tested under load of a period of 1 hour to verify that they will properly operate during an actual power outage. If within the 1-hour test period the battery exhibits symptoms of failure, the test shall be extended for additional 1-hour periods until the integrity of the battery can be determined.

4. All other active components shall be checked to verify operation within the manufacturers specification.

5. If a fire alarm system is present in the building, a test shall be conducted to verify that the fire alarm system is properly supervising the emergency responder communication enhancement system as required in Section 510.4.2.5. The test is performed by simulating alarms to the fire alarm control panel. The certifications in Section 510.5.2 are sufficient for the personnel performing this testing.

6. At the conclusion of testing, a record of the inspection and maintenance along with an updated grid diagram of each floor showing tested strengths in each grid square and each critical area shall be added to the documentation maintained on the premises in accordance with Section 510.5.3.

7. At the conclusion of the testing, a report, which shall verify compliance with Section 510.6.1, shall be submitted to the fire code official.

51-54A-0510	Additional frequencies.	510.6.2	510.6.2	repeal Existing Amendment	

510.6.2 Additional frequencies. The building owner shall modify or expand the in-building emergency responder communications enhancement system at their expense in the event frequency changes are required by the FCC or other radio licensing authority, or additional frequencies are made available by the FCC or other radio licensing authority. Prior approval of an in-building emergency responder communications enhancement system on previous frequencies does not exempt this section.

51-54A-0510	Nonpublic safety system	510.6.3	510.6.3	repeal Existing Amendment	

510.6.3 Nonpublic safety system. Where other nonpublic safety amplification systems installed in buildings reduce the performance or cause interference with the in-building emergency responder communications enhancement system, the nonpublic safety amplification system shall be corrected or removed.

51-54A-0510	Field testing.	510.6.4	**510.6.4**	recommend to keep the admendment	

510.6.4 Field testing. Agency personnel shall have the right to enter onto the property at any reasonable time to conduct field testing to verify the required level of radio coverage or to disable a system adversely impacting the emergency responder communication enhancement system in the region.

06 Building Services and Systems					
51-54A-0605	Approval.	605.4.1.1	605.4.1.1	Keep amendment	unless model code fixes mistake in errata. UL 142A.F52-21

605.4.1.1 Approval. Outdoor fuel oil storage tanks shall be in accordance with UL 80, UL 142, UL 142A or UL 2085.

51-54A-0605	Approval.	605.4.2.1	605.4.2.1	Keep amendment	unless model code fixes mistake in errata. UL 142A.F52-21

605.4.2.1 Approval. Indoor fuel oil storage tanks shall be in accordance with UL 80, UL 142, UL 142A or UL 2085.

51-54A-0605	Quantity limits.	605.4.2.2	605.4.2.2	Keep amendment	unless model code fixes mistake in errata. UL 142A.F52-21

605.4.2.2 Quantity limits. One or more fuel oil storage tanks containing Class II or III *combustible liquid* shall be permitted in a building. The aggregate capacity of all tanks shall not exceed the following:

1. 660 gallons (2498 L) in unsprinklered buildings, where stored in a tank complying with UL 80, UL 142, UL 142A or UL 2085.
2. 1,320 gallons (4996 L) in buildings equipped with an *automatic sprinkler* system in accordance with Section 903.3.1.1, where stored in a tank complying with UL 142 or UL 142A. The tank shall be *listed* as a secondary containment tank, and the secondary containment shall be monitored visually or automatically.
3. 3,000 gallons (11 356 L) in buildings equipped with an automatic sprinkler system in accordance with Section 903.3.1.1, where stored in protected above-ground tanks complying with UL 2085 and Section 5704.2.9.7. The tank shall be *listed* as a secondary containment tank, as required by UL 2085, and the secondary containment shall be monitored visually or automatically.

51-54A-0606	Where required	606.2	606.2	Keep amendment	Need to update WAC exceptions to capture accurate IMC references

[M] 606.2 Where required. A Type I hood shall be installed at or above all commercial cooking appliances and domestic cooking appliances used for commercial purposes that produce grease vapors.

Exceptions:

1. Factory-built commercial exhaust hoods that are *listed* and *labeled* in accordance with UL 710, and installed in accordance with Section 304.1 of the *International Mechanical Code*, shall not be required to comply with Sections 507.1.5, 507.2.3, 507.2.5, 507.2.8, 507.3.1, 507.3.3, 507.1.6 and 507.2.10 of the *International Mechanical Code*.
2. Factory-built commercial cooking recirculating systems that are *listed* and *labeled* in accordance with UL 710B, and installed in accordance with Section 304.1 of the *International Mechanical Code*, shall not be required to comply with Sections 507.1.5, 507.2.3, 507.2.5, 507.2.8, 507.3.1, 507.3.3, 507.1.6 and 507.2.10 of the *International Mechanical Code*. Spaces in which such systems are located shall be considered to be kitchens and shall be ventilated in accordance with Table 403.3.1.1 of the *International Mechanical Code*. For the purpose of determining the floor area required to be ventilated, each individual appliance shall be considered as occupying not less than 100 square feet (9.3 m^2).
3. Where cooking appliances are equipped with integral down-draft exhaust systems and such appliances and exhaust systems are *listed* and *labeled* for the application in accordance with NFPA 96, a hood shall not be required at or above them.
4. A Type I hood shall not be required for an electric cooking appliance where an *approved* testing agency provides documentation that the appliance effluent contains 5 mg/m^3 or less of grease when tested at an exhaust flow rate of 500 cfm (0.236 m^3/s) in accordance with UL 710B.
5. 5. A Type I hood shall not be required to be installed in an R-2 occupancy with not more than 16 residents.

51-54A-0606	Domestic cooking appliances used for commercial purposes	606.2.1	606.2.1	Keep amendment	Mechanical Code is Maintaining the same language in their amendment

606.2.1 Domestic cooking appliances used for commercial purposes. Recommend the state amendment and correlate with the mechanical code.

51-54A-0606	Operations and maintenance.	606.3	606.3	Keep amendment	

606.3 Operations and maintenance. Commercial cooking systems shall be operated, inspected and maintained in accordance with Sections 606.3.1 through 606.3.4 and Chapter 12 of NFPA 96.

07 Fire and Smoke Protection Features	
51-54A-0701	Reserved.

08 Interior Finish, Decorative Materials and Furnishings					
51-54A-0806	Decorative vegetation in	806.1.1	806.1.1	Keep existing state amendment	No change to amended section

806.1.1 Restricted occupancies. Natural cut trees shall be ~~prohibited within ambulatory care facilities and Group A, E, I-1, I-2, I-3, I-4, M, R-1, R-2 and R-4 occupancies.~~in the

1. Group I; and

2. R-2 occupancies providing licensed care to clients in one of the categories listed in the International Building Code, Section 310.1, licensed by

51-54A-0806	Decorative vegetation in new and existing buildings. / Support devices	806.1.2	806.1.2	Keep existing state amendment: provides additional clarity to amount of water supply	No change to amended section under 2024 IFC

806.1.2 Support devices. The support device that holds the tree in an upright position shall be of a type that is stable and that meets all of the following criteria:

1. The device shall hold the tree securely and be of adequate size to avoid tipping over of the tree.
2. The device shall be capable of containing a minimum ~~two-day~~ supply of water in accordance with Table 806.1.2.
3. The water level, when full, shall cover the tree stem not less than 2 inches (51 mm). The water level shall be maintained above the fresh cut and

TABLE 806.1.2 SUPPORT STAND WATER CAPACITY

TREE STEM DIAMETER (inches)	MINIMUM SUPPORT STAND WATER CAPACITY (gallons)	TYPICAL DAILY WATER TRANSPIRATION AMOUNT (gallons)
Up to 4	1	1/4 to 1
4 to 6	1 1/2	1 1/4 to 1 1/2
7 to 8	2	1 3/4 to 2
9 to 12	3	2 1/4 to 3
13 and over	4	Over 3

09 Fire Protection and Life Safety Systems

51-54A-0901	General. / Nonrequired fire protection systems and life safety systems	901.4.2	901.4.2	Keep existing amendment Update to italicize approved.	No change to amended section under 2024 IFC Need To italicize the term "Approved"

901.4.2 Nonrequired fire protection and life safety systems. *Fire protection* and *life safety systems* or portion thereof not required by this code or the *International Building Code* shall be allowed to be furnished for partial or complete protection provided that such installed systems meet the applicable requirements of this code and the *International Building Code* . Such systems or portion of system shall be provided with signage stating "NON-REQUIRED SYSTEM." Signage shall be durable and permanent in nature, with contrasting color and background, and with lettering of not less than 1 inch (25 mm) in height. Location of such signage shall be *approved* .

51-54A-0901	General. / Removal of existing occupant-use hose lines	901.8.2	901.8.2	Keep existing amendment	No change to amended section under 2024 IFC

901.1.1 Removal of existing occupant-use hose lines. The *fire code official* is authorized to permit the removal of existing occu- pant-use hose lines where ~~both~~all of the

1. Installation is not required by this code, the International Building Code, or a previously approved alternative method.
2. The hose line would not be utilized by trained personnel or the fire department.

	3. The remaining outlets are compatible with local fire department fittings.				
51-54A-0903	~~A~~utomatic sprinkler systems. / Where required.	903.2	903.2	Keep existing State Amendment adding exception #2	
903.1 Where required. *Approved automatic sprinkler systems* in new buildings and structures shall be provided in the locations described in Sections 903.2.1 through					
Exceptions:	1. Spaces or areas in telecommunications buildings used exclusively for telecommunications equip- ment, associated electrical power distribution equipment, batteries not required to have an *automatic sprinkler system* by Section 1207 for energy storage systems and standby engines, provided that those spaces or areas are equipped throughout with an *automatic smoke detection system* in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour *fire barriers* constructed in accordance with Section 707 of the *International Building* ~~2. Bottom of the elevator hoistway in an enclosed and noncombustible elevator shaft.~~				
51-54A-0903	~~A~~utomatic sprinkler systems. / Group A-3.	903.2.1.3	903.2.1.3	Keep state amendment	
903.2.1.3 Group A-3. An *automatic sprinkler system* shall be provided throughout stories containing Group A-3 occupancies and throughout all stories from the Group A-3					
	1. The *fire area* exceeds 12,000 square feet (1115 m^2). 2. The *fire area* has an *occupant load* of 300 or more. 3. The *fire area* is located on a floor other than a *level of exit discharge* serving such occupancies. **Exception**: For fixed guideway transit and passenger rail system stations, an automatic sprinkler system shall be provided in accordance with Section				
51-54A-0903	~~A~~utomatic sprinkler systems. / Assembly occupancies on roofs.	903.2.1.6	903.2.1.6	Keep existing amendment that requires the entire building to have a sprinkler system instead of the floors between the roof and level of exit discharge.	
903.2.1.6 Assembly occupancies on roofs. Where an occupied roof has an assembly occupancy with an *occupant load* exceeding 100 for Group A-2 and 300 for other Group A occupancies, ~~all floors between the occupied roof and the *level of exit discharge*~~ the building shall be equipped with an *automatic sprinkler system* in accordance with					
51-54A-0903	~~A~~utomatic sprinkler systems. / Nightclub.	903.2.1.8	903.2.1.8	Keep existing state amendment	
903.2.1.8 Nightclub. An automatic sprinkler system shall be provided throughout Group A-2 nightclubs as defined in this code.					
51-54A-0903	~~A~~utomatic sprinkler systems. / Group E.	903.2.3	903.2.3	Keep existing state amendment.	
903.2.3 Group E. An *automatic sprinkler system* shall be provided for Group E ~~occupancies as follows:~~ occupancies where the fire area has an occupant load of 51 or more,					
	~~1. Throughout all Group E *fire areas* greater than 12,000 square feet (1115 m^2) in area.~~ ~~2. The Group E *fire area* is located on a floor other than a *level of exit discharge* serving such occupancies.~~ ~~**Exception:** In buildings where every classroom has not fewer than one exterior exit door at ground level, an *automatic sprinkler system* is not~~ ~~3. The Group E *fire area* has an *occupant load* of 300 or more.~~				
Exceptions:	1. Portable school classrooms with an occupant load of 50 or less calculated in accordance with Table 1004.5, provided that the aggregate area of any cluster of portable classrooms does not exceed 6,000 square feet (557 m2); and clusters of portable school classrooms shall be separated as				

2. Portable school classrooms with an occupant load from 51 through 98, calculated in accordance with Table 1004.5, and provided with two means of direct independent exterior egress from each classroom in accordance with Chapter 10, and one exit from each class room shall be accessible, provided that the aggregate area of any cluster of portable classrooms does not exceed 6,000 square feet (557 m2); and clusters of portable school

1. Fire areas containing day care and preschool facilities with a total occupant load of 100 or less located at the level of exit discharge where every room in which care is provided has not fewer than one exit discharge door.

51-54A-0903	Automatic sprinkler systems. / Group I.	903.2.6	903.2.6	Keep existing amendments

903.2.6 Group I. An *automatic sprinkler system* shall be provided throughout buildings with a Group I *fire area*.

Exceptions:

1. An *automatic sprinkler system* installed in accordance with Section 903.3.1.2 shall be permitted in Group I-1, Condition 1 facilities.
2. ~~An *automatic sprinkler system* is not required where Group I-4 day care facilities are at the *level of exit discharge* and where every room where care is provided has not fewer than one exterior *exit* door.~~
3. ~~In buildings where Group I-4 day care is provided on levels other than the *level of exit discharge*, an *automatic sprinkler system* in accordance with Section 903.3.1.1 shall be installed on the entire floor where care is provided, all floors between the level of care and the *level of exit discharge* and all floors below the *level of exit discharge* other than areas classified as an open parking garage.~~
2. Where new construction or additions house less than 16 persons receiving care, an automatic sprinkler system installed in accordance with Section 903.2.8.3 shall be permitted for Group I-1, Condition 2, assisted living facilities licensed under chapter 388-78A WAC and residential treatment facilities licensed under chapter 246-337 WAC.
3. An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be permitted in additions to existing buildings where both of the following situations are true:
   3.1. The addition is made to a building previously approved as Group LC or Group R-2 that houses either an assisted living facility licensed under chapter 388-78A WAC or residential treatment facility licensed under chapter 246-337 WAC.
   3.2. The addition contains spaces for 16 or fewer persons receiving care.

903.2.6 Group I. An *automatic sprinkler system* shall be provided throughout buildings with a Group I *fire area* .

Exceptions:

1. An *automatic sprinkler system* installed in accordance with Section 903.3.1.2 shall be permitted in Group I-1, Condi- tion 1 facilities.

~~2. An *automatic sprinkler system* is not required where Group I-4 day care facilities are at the *level of exit discharge* and where every room where care is provided has not fewer than one exterior *exit* door.~~

~~3. In buildings where Group I-4 day care is provided on levels other than the *level of exit discharge* , an *automatic sprin- kler system* in accordance with Section 903.3.1.1 shall be installed on the entire floor where care is provided, all floors between the level of care and the *level of exit discharge* and all floors below the *level of exit discharge* other than areas classified as an open parking garage.~~

2. Where new construction or additions house less than 16 persons receiving care, an automatic sprinkler system installed in accordance with Section 903.2.8.3 shall be permitted for Group I-1, Condition 2, assisted living facilities licensed under chapter 388-78A WAC and residential

3. An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be permitted in additions to existing buildings where both of the

3.1 The addition is made to a building previously approved as Group LC or Group R-2 that houses either an assisted living facility licensed under chapter 388-78A WAC or residential treatment facility licensed under chapter 246-337 WAC.

3.2 The addition contains spaces for 16 or fewer persons receiving care.

51-54A-0903	Automatic sprinkler systems. / Group I-4.	N/A	903.2.6.1	Keep existing amendment	

903.2.6.1 Group I-4. An automatic sprinkler system shall be provided in fire areas containing Group I-4 occupancies where the fire area has an occupant load of 51 or more,

Exceptions:
1. An automatic sprinkler system is not required where Group I-4 day care facilities with a total occupant load of 100 or less, and located at the level of exit discharge and where every room where care is provided has not fewer than one exterior exit door.
2. In buildings where Group I-4 day care is provided on levels other than the level of exit discharge, an automatic sprinkler system in accordance with Section 903.3.1.1 shall be installed on the entire floor where care is provided, all floors between the level of care and the level of exit discharge and all floors below the level of exit discharge other than areas classified as an open parking garage.

51-54A-0903	Automatic sprinkler systems. / Group R.	903.2.8	903.2.8	Keep state amendment	

903.2.8 Group R. An *automatic sprinkler system* installed in accordance with Section 903.3 shall be provided throughout all build- ings with a Group R *fire area* .

Exception: Group R-1 if all of the following con
1. The Group R fire area is no more than 500 square feet (46 m2) and is used for recreational use only.
2. The Group R fire area is on only one story.
3. The Group R fire area does not include a basement.
4. The Group R fire area is no closer than 30 feet (9144 mm) from another structure.
5. Cooking is not allowed within the Group R fire area.
6. The Group R fire area has an occupant load of no more than eight.
7. A hand-held (portable) fire extinguisher is in every Group R fire area.

51-54A-0903	Automatic sprinkler systems. / Adult family home	903.2.8.5	903.2.8.4	Keep state amendment	Renumber due to model code deletion of 903.2.8.3.

903.2.8.4 Adult family home. An adult family home with a capacity of seven or eight that serves residents who require assistance during an evacuation must install an automatic sprinkler system that meets the requirements of NFPA 13D.

51-54A-0903	Automatic sprinkler systems. / Basements	903.2.11.1.3	903.2.11.1.3	Keep existing state amendment.	

903.2.11.1.3 Basements. Where any portion of a *basement* is located more than 75 feet (22 860 mm) from openings required by Section 903.2.11.1, or where new walls, partitions or other similar obstructions are installed that ~~restrict the application of water from hose streams~~ increase the exit access travel distance to more than 75 feet (22,860 mm), the *basement* shall be equipped throughout with an *approved automatic sprinkler system* .

51-54A-0903	Automatic sprinkler systems. / Commercial cooking operations.	903.2.11.5	903.2.11.5	Keep existing amendment	

903.2.11.5 Commercial cooking operations. An *automatic sprinkler system* shall be installed in commercial kitchen exhaust hood and duct systems where an *automatic sprinkler system* is used to comply with Section 904.

Exception: An automatic fire sprinkler system is not required to protect the ductwork that is in excess of 75 feet (22,860 mm) when the commercial kitchen exhaust hood is protected by a system listed per UL 300.

51-54A-0903	Automatic sprinkler systems. / Other required fire protection systems	Table 903.2.11.6	Table 903.2.11.6	Repeal existing state amendment: Existing amendment is addressed by 2024 IFC code change	

TABLE 903.2.11.6—ADDITIONAL REQUIRED FIRE PROTECTION SYSTEMS	
SECTION	**SUBJECT**
320.2	Lithium-ion and lithium metal battery storage
~~322.4.2.3~~	~~Lithium-ion and lithium metal batter storage~~
903.2.10.2	Mechanical-access enclosed parking garages
914.2.1	Covered and open mall buildings
914.3.1	High-rise buildings
914.4.1	Atriums
914.5.1	Underground structures
914.6.1	Stages
914.7.1	Special amusement area
914.8.2	Airport traffic control towers
914.8.3, 914.8.6	Aircraft hangars
914.9	Flammable finishes
914.1	Drying rooms
914.11.1	Ambulatory care facilities
1030.6.2.3	Smoke-protected assembly seating
1103.5.1	Existing Group A occupancies
1103.5.5	Pyroxylin plastic storage in existing buildings
1103.5.2	Existing Group I-2 occupancies
1103.5.3	Existing Group I-2, Condition 2 occupancies
1103.5.5	Pyroxylin plastics
Table 1206.9, Table 1206.10, Table 1207.7, Table 1207.8	Stationary and mobile energy storage systems
2108.2	Dry cleaning plants

51-54A-0903	Automatic sprinkler systems. / Relocatable buildings within buildings.	N/A	903.2.11.7	Keep state amendment	

903.2.11.7 elocatable buildings within buildings. Relocatable buildings or structures located within a building with an approved fire sprinkler system shall be provided with fire sprinkler protection within the occupiable space of the building and the space underneath the relocatable building.

Exceptions:
1. Sprinkler protection is not required underneath the building when the space is separated from the adjacent space by construction resisting the passage of smoke and heat and combustible storage will not be located there.
2. If the building or structure does not have a roof or ceiling obstructing the overhead sprinklers.
3. Construction trailers and temporary offices used during new building construction prior to occupancy.
4. Movable shopping mall kiosks with a roof or canopy dimension of less than 4 feet (1219 mm) on the smallest side

51-54A-0903	Automatic sprinkler systems. / NFPA 13R sprinkler systems	903.3.1.2	903.3.1.2	Keep existing state amendment.	

903.2.1.2 NFPA 13R sprinkler systems. *Automatic sprinkler systems* in Group R occupancies up to and including four stories in height in buildings not exceeding 60 feet

~~1. Four stories or less above *grade plane* .~~

~~2. For other than Group R-2 occupancies, the floor level of the highest story is 30 feet (9144 mm) or less above the lowest level of fire department vehicle access. For Group R-2 occupancies, the roof assembly is less than 45 feet (13 716 mm) above the lowest level of fire depart- ment vehicle access. The height of the roof assembly shall be determined by measuring the distance from the lowest required fire vehicle access road surface adjacent to the building to the eave of the highest pitched roof, the intersec- tion of the highest roof to the exterior wall, or the top of the highest parapet, whichever yields the greatest distance.~~

~~3. The floor level of the lowest story is 30 feet (9144 mm) or less below the lowest level of fire department vehicle access.~~

The number of stories of Group R occupancies constructed in accordance with Sections 510.2 and 510.4 of the *International Building Code* shall be measured from ~~*grade plane*~~ the horizontal assembly creating separate buildings.

51-54A-0903	Automatic sprinkler systems. / Underground portions of fire protection system water supply piping	903.3.5.3	903.3.5.3	Keep existing state amendment.	

904.1.1 Certification of personnel for alternative fire-extinguishing equipment. Personnel performing system design, installation, maintenance, programming or testing on automatic fire-extinguishing systems, other than automatic sprinkler systems, shall possess the appropriate National Institute for Certification in Engineering Technologies
Exception: A current ICC/NAFED certification for preengineered kitchen fire extinguishing system technician is allowed in lieu of NICET Level II or higher in Special Hazards Suppression Systems for the design, installation, inspection/testing or maintenance on preengineered kitchen suppression systems.

904.1.1.1 Design. All construction documents shall be reviewed by a NICET Level III in special hazard suppression systems or a licensed professional engineer (PE) in the state of Washington prior to being submitted for permitting. The reviewing professional shall submit a stamped, signed, and

904.1.1.2 Installation. Installation not defined as "electrical construction trade" by chapter **19.28** RCW or "Fire Protection Sprinkler Fitting" by chapter **18.270** RCW, shall be completed by or directly supervised by a NICET Level II or higher in *special hazards suppression systems* . Supervision shall consist of a person being on the same job site and under the control of a NICET Level II or higher in *special hazards suppression systems* .

904.1.1.3 Testing/maintenance. Inspection, testing, commissioning, maintenance, and programming not defined as "electrical construction trade" by chapter **19.28** RCW or "Fire Protection Sprinkler Fitting" by chapter **18.270** RCW, shall be completed by a NICET Level II or higher in *special*

51-54A-0904	Commercial cooking systems	904.13	904.14	Keep existing state amendment. Renumber based on model code change that add new Section 904.12.	

904.14 Commercial cooking systems. The *automatic fire-extinguishing system* for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems of the type and arrangement protected. Preengi- neered automatic dry- and wet-chemical extinguishing systems shall be tested in accordance with UL 300 and *listed* and *labeled* for the intended application. Other types of *automatic fire-extinguishing systems* shall be *listed* and *labeled* for specific use as protection for commercial cooking operations. The system shall be installed in accordance with this code, NFPA 96, its listing and the manufac- turer's installation instructions. Additional protection is not required for ductwork beyond 75 feet (22,860 mm) when hood suppression system complies with UL 300. Signage shall be provided on the exhaust hood or system cabinet, indicating the type and arrangement of cooking appliances protected by the *automatic fire-extinguishing system* . Signage shall indicate appliances from left to right, be durable, and the size, color, and lettering shall be *approved* . *Automatic fire-extinguishing systems* of the following types shall be installed in accordance with the referenced standard indicated. as follows:

1. Carbon dioxide extinguishing systems, NFPA 12.
2. *Automatic sprinkler systems* , NFPA 13.
3. Automatic water mist systems, NFPA 750.
4. Foam-water sprinkler system or foam-water spray systems, NFPA 11.
5. Dry-chemical extinguishing systems, NFPA 17.
6. Wet-chemical extinguishing systems, NFPA 17A.

Exceptions:

1. Factory-built commercial cooking recirculating systems that are tested in accordance with UL 710B and *listed* , *labeled* and installed in accordance with Section 304.1 of the International Mechanical Code.
2. Protection of duct systems beyond 75 feet (22,860 mm) when the commercial kitchen exhaust hood is protected by a system listed in accordar

51-54A-0907	Fire alarm and detection systems. / Group E	907.2.3	907.2.3	Keep existing state amendment as modified: Updated amendment language to minimize unnecessary language changes (i.e. "shall not be" ICC language vs. "are not" previous state amendment language").	

907.2.3 Group E. ~~A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E occupancies. Where *automatic sprinkler systems* or smoke detectors are installed, such systems or detectors shall be connected to the building *fire alarm system* .~~ Group E occupancies shall be provided with a manual fire alarm system that initiates the occupant notification signal utilizing one of the following:

1. An emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6;
2. A *system* developed as part of a safe school plan adopted in accordance with RCW **28A.320.125** or developed as part of an emergency response system consistent with the provisions of RCW **28A.320.126**. The system must achieve all of the following performance standards:
   - 2.1 The ability to broadcast voice messages or customized announcements;
   - 2.2 Includes a feature for multiple sounds, including sounds to initiate a lock down;
   - 2.3 The ability to deliver messages to the interior of a *building* , areas outside of a *building* as designated pursuant to the
   - 2.4 The ability for two-way communications;

2.5 The ability for individual room calling;
2.6 The ability for a manual override;
2.7 Installation in accordance with NFPA 72;
2.8 Provide 15 minutes of battery backup for alarm and 24 hours of battery backup for standby; and
2.9 Includes a program for annual inspection and maintenance in accordance with NFPA 72.

Exceptions:

1. A manual *fire alarm* system shall not be required in Group E occupancies with an *occupant load* of 50 or less.
2. *Emergency voice/alarm communication systems* meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall not be required in Group E occupancies with *occupant loads* of 100 or less, such as *individual portable school classroom buildings* ; provided that activation of the manual *fire alarm system* initiates an *approved* occupant notification signal in accor- dance with Section 907.5.
3. Where an existing *approved* alarm system is in place, an *emergency voice/alarm communication system* is not required in any portion of an existing Group E *building* undergoing any one of the following repairs, *alteration* or addition:
   - 3.1. *Alteration* or repair to an existing *building* including, without limitation, alterations to rooms and systems, and/or corridor configurations, not exceeding 35 percent of the *fire area* of the *building* (or the *fire area* undergoing the
   - 3.2. An addition to an existing *building* , not exceeding 35 percent of the *fire area* of the *building* (or the *fire area* to which the addition is made if the *building* is comprised of two or more *fire areas*).
4. Manual fire alarm boxes shall not be required in Group E occupancies where all of the following apply:
   - 4.1. Interior *corridors* are protected by smoke detectors.
   - 4.2. Auditoriums, cafeterias, gymnasiums and similar areas are protected by *heat detectors* or other *approved*
   - 4.3. Shops and laboratories involving dusts or vapors are protected by *heat detectors* or other *approved* detec- tion
   - 4.4. Manual activation is provided from a normally occupied location.
5. Manual fire alarm boxes shall not be required in Group E occupancies where all of the following apply:
   - 5.1. The building is equipped throughout with an *approved automatic sprinkler system* installed in accordance with
   - 5.2. The emergency voice/alarm communication system will activate on sprinkler water flow.
   - 5.3. Manual activation is provided from a normally occupied location.

51-54A-0907	Fire alarm and detection systems. / Group E / Sprinkler sysetms or detection	N/A	907.2.3.1	Keep existing state amendment	

907.2.3.1 Sprinkler systems or detection. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the

51-54A-0907	Fire alarm and detection systems. / Group I-1	907.2.6.1	907.2.6.1	Repeal existing state amendment. Previous amendment language matches current 2024 IFC language.	

907.2.6.1 Group I-1. An automatic smoke detection system shall be installed in corridors, waiting areas open to corridors and habitable spaces other than sleeping units and kitchens. The system shall be activated in accordance with Section 907.5.

Exceptions:

1. For Group I-1, Condition 1 occupancies, smoke detection in *habitable spaces* is not required where the facility is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1.
2. Smoke detection is not required for exterior balconies.

51-54A-0907	Fire alarm and detection systems. / Group I-4	907.2.6.4	907.2.6.4	Keep existing state amendment	

907.2.6.4 Group I-4 occupancies. An automatic smoke detection system shall be installed in corridors, waiting areas open to corridors and habitable spaces other than sleeping units and kitchens. The system shall be activated in accordance with Section 907.4.

Exceptions:
1. A manual fire alarm system is not required in Group I-4 occupancies with an occupant load of 50 or less.
2. Emergency voice alarm communication systems meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6

51-54A-0907	Fire alarm and detection systems. / Group R-1	907.2.11.1	907.2.11.1	Keep existing state amendment	

907.2.11.1 Group R-1. Single- or multiple-station smoke alarms shall be installed in all of the following locations in Group R-1:

1. In sleeping areas.
2. In each loft constructed in accordance with Section 420.13 of the International Building Code.
3. In every room in the path of the *means of egress* from the sleeping area to the door leading from the *sleeping unit* .
4. In each story within the *sleeping unit* , including *basements* . For *sleeping units* with split levels and without an inter- vening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full

51-54A-0907	Fire alarm and detection systems. / Group R-2, R-3, R-4, and I-1	907.2.11.2	907.2.11.2	Keep existing state amendment	

907.2.11.2 Groups R-2, R-3, R-4 and I-1. Single- or multiple-station smoke alarms shall be installed and maintained in Groups R-2, R-3, R-4 and I-1 regardless of *occupant*

1. On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms.
2. In each room used for sleeping purposes.
3. In each loft constructed in accordance with Section 420.13 of the International Building Code.
4. In each story within a *dwelling unit* , including *basements* but not including crawl spaces and uninhabitable attics. In

51-54A-0907	*dwellings* or *dwelling un*	907.5.2.1.2	907.5.2.1.2	Keep existing state amendment	

907.5.2.1.2 Maximum sound pressure. The ~~total~~ maximum sound pressure level ~~produced by combining the ambient sound pressure level with all~~ for audible notification appliances ~~operating~~ shall ~~not exceed~~ be 110 dBA at the minimum hearing distance from the audible appliance. For systems operating in public mode, the maximum sound pressure level shall not exceed 30 dBA over the average ambient sound level. Where the average ambient noise is greater than ~~105~~ 95 dBA, visible alarm notification appliances shall be provided in accordance with NFPA 72 and audible alarm notification appliances shall not be required.

51-54A-0907	Fire alarm and detection systems. / Testing/maintenance	907.8.4.1	907.8.4.1	Modify existing state amendment to remove effective date of July 1, 2018	

907.8.4.1 Testing/maintenance: All inspection, testing, maintenance and programing not defined as "electrical construction trade" by chapter 19.28 RCW shall be completed by a NICET II or ESA/NTS Certified Fire Alarm Technician (CFAT) Level II Fire in fire alarms ~~(effective July 1, 2018)~~.

51-54A-0907	Fire alarm and detection systems. / NICET	N/A	907.11, 907.11.1 - 907.11.2	Modify existing state amendment Remove Effective Date at end of section	

907.11 NICET: National Institute for Certification in Engineering Technologies and ESA/NTS: Electronic Security Association/National Training School.

907.11.1 **Scope.** This section shall apply to new and existing fire alarm systems.

907.11.2 **Design review:** All construction documents shall be reviewed by a NICET III, an ESA/NTS Certified Fire Alarm Designer (CFAD) Level III Fire in fire alarms, or a licensed professional engineer (PE) in Washington prior to being submitted for permitting. The reviewing professional shall submit a stamped, signed, and dated letter; or a verification method approved by the local authority having jurisdiction indicating the system has been reviewed and meets or exceeds the design requirements of the state of Washington and the local jurisdiction ~~(effective July 1, 2018)~~.

51-54A-0908	Reserved.	908	908	Keep existing state amendment	

51-54A-0909	Section 909—Smoke control systems. / Hoistway venting	N/A	909.21.12	Keep existing state amendment	

909.21.12 Hoistway venting. Hoistway venting need not be provided for pressurized elevator shafts.

51-54A-0909	Section 909—Smoke control systems. / Machine rooms	N/A	909.21.13	Keep existing state amendment	

909.21.13 Machine rooms. Elevator machine rooms shall be pressurized in accordance with this section unless separated from the hoistway shaft by construction in accordance with Section 707 of the International Building Code.

51-54A-0913	Section 913—Fire pumps.	913.2.1	913.2.1	Keep existing state amendment	

913.2.1 Protection of fire pump rooms and access. ~~Rooms where fire pumps are located shall be separated from all other areas of the building in accordance with Section 913.2.1 of the *International Building Code* .~~ Fire pumps shall be located in rooms that are separated from all other areas of the *building* by 2-hour *fire barriers* constructed in accordance with Section 707 of the *International Building Code* or 2-hour *horizontal assemblies* constructed in accordance with Section 711 of the *International Building Code* , or both. Fire pump rooms not directly accessible from the outside shall be accessible through an enclosed passageway from an *interior exit stairway* or exterior *exit* . The enclosed passageway shall have a *fire-resistance rating* not less than the *fire-resistance rating* of the fire pump room (see NFPA 20 Section 4.14.2.1.2).

51-54A-0915	Carbon monoxide detection.	915.1.1	915.1.1	Modify existing state amendment: 1. Previous "Exception 1", align with 2024 IFC updated language: Add requirement for all Group R-2 occupancies, with the exception of R-2 college dormitories. 2. Previous "Exception 2" language is addressed by 2024 IFC changes.	Further Review and Correlation needed with IBC Tag

915.1.1 Where required. Carbon monoxide detection shall be installed in the locations specified in Section 915.2 where any of the following conditions exist.

1. In buildings that contain a *CO source* .

2. In buildings that contain or are supplied by a CO-producing forced-air furnace.
3. In buildings with attached private garages.
4. In buildings that have a CO-producing vehicle that is used within the building.
5. All Group R-2 occupancies, with the exception of R-2 college dormitories.

51-54A-0915	Carbon monoxide detection. / Dwelling units	915.2.1	915.2.1	Modify existing state amendment to align with updated 2024 IFC language: limits amendment to adding requirement CO detection on each level of a dwelling where CO detection is required outside of sleeping area.	Further Review and Correlation needed with IBC Tag

915.2.1 Dwelling units. Carbon monoxide detection shall be installed in *dwelling units* outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each level of the dwelling. Where a *CO source* is located within a bedroom or its attached bathroom, carbon monox- ide detection shall be installed within the bedroom.

51-54A-0915	General	915.5.1	N/A	Delete amendment. Model code has language and addresses existing amendment.	

915.5.1 General. Carbon monoxide detectors shall be *listed* in accordance with UL 2075.

51-54A-0915	Locations	915.5.2	N/A	Delete amendment. Model code has language, existing amendment is addressed in 2024 IFC.	

915.5.1 Locations. Carbon monoxide detectors shall be installed in the locations specified in Section 915.2. These locations supersede the locations specified in NFPA 72.

51-54A-0915	Maintenance	915.6	N/A	Delete amendment. Existing amendment is addressed in 2024 IFC.	

915.6 Maintenance. Carbon monoxide alarms and carbon monoxide detection systems shall be maintained in accordance with NFPA 72. Carbon monoxide alarms and carbon monoxide detectors that become inoperable or begin producing end-of-life signals shall be replaced.

10 Means of Egress

51-54A-1003	Elevators, escalators and moving walks	1003.7	1003.7	Keep exisiting amendement:	

[BE] 1003.7 Elevators, escalators and moving walks. Elevators, escalators and moving walks shall not be used as a component of a required *means of egress* from any other part of the building.

Exceptions:

1. Elevators used as an *accessible means of egress* in accordance with Section 1009.4.

2. Escalators used as a means of egress for fixed transit and passenger rail systems in accordance with Section 4901.

51-54A-1004	Areas without fixed seating.	1004.5	1004.5	Repeal existing state amendments:	Model code has same language.

[BE] 1004.5 Areas without fixed seating. The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.5. For areas without *fixed seating*, the *occupant load* shall be not less than that number determined by dividing the floor area under consideration by the *occupant load* factor assigned to the function of the space as set forth in Table 1004.5. Where an intended function is not listed in Table 1004.5, the *fire code official* shall establish a function based on a listed function that most nearly resembles the intended function.

Exception: Where *approved* by the *fire code official*, the actual number of occupants for whom each occupied space, floor or building is designed, although less than those determined by calculation, shall be permitted to be used in the determination of the design *occupant load*.

51-54A-1004	Increased occupant load.	1004.5.1	1004.5.1	Repeal existing state amendments:	Model code has same language.

[BE] 1004.5.1 Increased occupant load. The *occupant load* permitted in any building, or portion thereof, is permitted to be increased from that number established for the occupancies in Table 1004.5, provided that all other requirements of the code are met based on such modified number and the *occupant load* does not exceed one occupant per 7 square feet (0.65 m^2) of occupiable floor space. Where required by the *fire code official*, an *approved aisle*, seating or fixed equipment diagram substantiating any increase in *occupant load* shall be submitted. Where required by the *fire code official*, such diagram shall be posted.

51-54A-1004	Maximum Floor Area Allowances Per Occupant.	Table 1004.5	Table 1004.5	Keep exisiting amendement:	

[BE]TABLE 1004.5—MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR[a]

Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Exhibit gallery and museum	30 net
Billiard Table / Game Area	50 Gross
Assembly with fixed seats	See Section 1004.6
Assembly without fixed seats	
Concentrated (chairs only—not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	150 gross
Concentrated business use areas	See Section 1004.8
Courtrooms—other than fixed seating areas	40 net
Day care	35 net

[BE]TABLE 1004.5—MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT—continued	
FUNCTION OF SPACE	**OCCUPANT LOAD FACTOR***

Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
Fixed Guideway transit and passenger rail systems Platform Concourse/lobby	 100 Gross (see Section 4901)
Group H-5 fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Information technology equipment facilities	300 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mall buildings—covered and open	See Section 402.8.2 of the *International Building Code*
Mercantile	60 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Warehouses	500 gross

For SI: 1 square foot = 0.0929 m^2, 1 foot = 304.8 mm.
a. Floor area in square feet per occupant.

51-54A-1005	General.	1005.1	1005.1	Keep exisiting amendement:	

[BE] 1005.1 General. All portions of the *means of egress* system shall be sized in accordance with this section.

Exceptions:

1. Aisles and aisle accessways in rooms or spaces used for assembly purposes complying with Section 1030.
2. The capacity in inches, of means of egress components for fixed guideway transit and passenger rail stations, shall meet the requirements of Section 4901.

51-54A-1006	Egress based on occupant load and common path of egress travel distance.	1006.2.1	1006.2.1	Keep exisiting amendement:	

[BE] 1006.2.1 Egress based on occupant load and common path of egress travel distance. Two *exits* or *exit access doorways* from any space shall be provided where the design *occupant load* or the *common path of egress travel* distance exceeds the values listed in Table 1006.2.1. The cumulative *occupant load* from adjacent rooms, areas or spaces shall be determined in accordance with Section 1004.2.

Exceptions:

1. The number of *exits* from foyers, lobbies, vestibules or similar spaces need not be based on cumulative *occupant loads* for areas discharging through such spaces, but the capacity of the *exits* from such spaces shall be based on applicable cumulative *occupant loads*.
2. Care suites in Group I-2 occupancies complying with Section 407.4 of the *International Building Code*.
3. Unoccupied mechanical rooms and penthouses are not required to comply with the *common path of egress travel* distance measurement.
4. The common path of travel for fixed transit and passenger rail system stations shall be in accordance with Section 4901.

1006.2.1.1	Three or more exits or exit access doorways.	1006.2.1.1	1006.2.1.1	Keep exisiting amendement:	

[BE] 1006.2.1.1 Three or more exits or exit access doorways. Three *exits* or *exit access doorways* shall be provided from any space with an *occupant load* of 501 to 1,000. Four *exits* or *exit access doorways* shall be provided from any space with an *occupant load* greater than 1,000.

EXCEPTION:

1. The number of required exits for fixed transit and passenger rail systems may be reduced by one at open stations.

1006.3.4	Single exits.	1006.3.4	1006.3.4	Repeal existing state amendments:	Work on this section has been directed by the Legislature. Coordinate with Building TAG. Seems to be not needed.

[BE] 1006.3.4 Single exits. A single *exit* or access to a single *exit* shall be permitted from any story or *occupiable roof*, where one of the following conditions exists:

1. The *occupant load*, number of *dwelling units* and *exit access* travel distance within the portion of the building served by the single exit do not exceed the values in Table 1006.3.4(1) or 1006.3.4(2).
2. Rooms, areas and spaces complying with Section 1006.2.1 with *exits* that discharge directly to the exterior at the *level of exit discharge*, are permitted to have one *exit* or access to a single *exit*.
3. Parking garages where vehicles are mechanically parked shall be permitted to have one *exit* or access to a single *exit*.
4. Group R-3 and R-4 occupancies shall be permitted to have one *exit* or access to a single *exit*.
5. Individual single-story or multistory *dwelling units* shall be permitted to have a single *exit* or access to a single *exit* from the *dwelling unit* provided that both of the following criteria are met:
   - 5.1. The *dwelling unit* complies with Section 1006.2.1 as a space with one means of egress.
   - 5.2. Either the *exit* from the *dwelling unit* discharges directly to the exterior at the *level of exit discharge*, or the *exit* access outside the *dwelling unit*'s entrance door provides access to not less than two *approved* independent *exits*.

51-54A-1008	Exit discharge.	1008.2.3	1008.2.3	Keep exisiting amendement:	

[BE] 1008.2.3 Exit discharge. Illumination shall be provided along the path of travel for the *exit discharge* from each *exit* to the *public way*.

~~**Exception:** Illumination shall not be required where the path of the *exit discharge* meets both of the following requirements:~~

~~1. The path of *exit discharge* is illuminated from the exit to a safe dispersal area complying with Section 1028.5.~~

~~2. A dispersal area shall be illuminated to a level not less than 1 footcandle (11 lux) at the walking surface.~~

51-54A-100+	Accessible means of egress required.	1009.1	1009.1	Keep exisiting amendement:	

[BE] 1009.1 Accessible means of egress required. *Accessible means of egress* shall comply with this section. Accessible spaces shall be provided with not less than one *accessible means of egress*. Where more than one *means of egress* is required by Section 1006.2 or 1006.3 from any accessible space, each accessible portion of the space shall be served by not less than two *accessible means of egress*.

Exceptions:

1. One *accessible means of egress* is required from an accessible *mezzanine* level in accordance with Section 1009.3, 1009.4 or 1009.5.
2. In assembly areas with ramped *aisles* or stepped *aisles*, one *accessible means of egress* is permitted where the common path of travel is accessible and meets the requirements in Section 1030.8.
3. In parking garages, accessible means of egress are not required to serve parking areas that do not contain accessible parking spaces.

1009.8	Two-way communication	1009.8	1009.8	Repeal existing state amendments:	Coordinate with Building TAG. Seems to be not needed.

[BE] 1009.8 Two-way communication. A two-way communication system complying with Sections 1009.8.1 and 1009.8.2 shall be provided at the landing serving each elevator or bank of elevators on each accessible floor that is one or more stories above or below the *level of exit discharge*.

Exceptions:

1. Two-way communication systems are not required at the landing serving each elevator or bank of elevators where the two-way communication system is provided within *areas of refuge* in accordance with Section 1009.6.5.
2. Two-way communication systems are not required on floors provided with *ramps* that provide a direct path of egress travel to grade or the level of exit discharge conforming to the provisions of Section 1012.
3. Two-way communication systems are not required at the landings serving only service elevators that are not designated as part of the *accessible means of egress* or serve as part of the required *accessible route* into a facility.
4. Two-way communication systems are not required at the landings serving only freight elevators.
5. Two-way communication systems are not required at the landing serving a private residence elevator.
6. Two-way communication systems are not required in Group I-2 or I-3 facilities.

51-54A-1009	System requirements.	1009.8.1	1009.8.1	Keep exisiting amendement:	Incorporate New Language into Existing Amendment

[BE] 1009.8.1 System requirements. Two-way communication systems shall provide communication between each required location and the *fire command center* or a central control point location *approved* by the fire department. Where the central control point is not a constantly attended location, the two-way communication system shall have a timed automatic telephone dial-out capability that provides two-way communication with an *approved* supervising station or emergency services. The two- way communication system shall include both audible and visible signals. The two-way communication system shall have a battery backup or an approved alternate source of power that is capable of 90 minutes use upon failure of the normal power source. Systems shall be listed in accordance with UL 2525 and installed in accordance with NFPA 72.					
51-54A-1010	Locks and latches.	1010.2.4	1010.2.4	Keep exisiting amendement:	modify because of new language in 2024 including new Table 1010.2.4. This section needs worked over, they added I-1, added language to Group A, Manual bolts Single exit doors. Further review needed by building TAG to ensure correct drafting of amendment language

[BE] 1010.2.4 Locks and latches. Locks and latches shall be permitted to prevent operation of doors where any of the following exist:

1. Places of detention or restraint.
2. In Group I-1, Condition 2 and Group I-2 occupancies where the clinical needs of persons receiving care require containment or where persons receiving care pose a security threat, provided that all clinical staff can readily unlock doors at all times, and all such locks are keyed to keys carried by all clinical staff at all times or all clinical staff have the codes or other means necessary to operate the locks at all times.
3. In buildings in occupancy Group A having an *occupant load* of 300 or less, Groups B, F, M and S, and in *places of religious worship*, the main door or doors are permitted to be equipped with key-operated locking devices from the egress side provided that:
   - 3.1. The doors are the main exterior doors to the building, or the doors are the main doors to the tenant space.
   - 3.2. The locking device is readily distinguishable as locked.
   - 3.3. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED." The sign shall be in letters 1 inch (25 mm) high on a contrasting background.
   - 3.4. The use of the key-operated locking device is revocable by the *fire code official* for due cause.
4. Manual bolts, automatic flush bolts and constant latching bolts on the inactive leaf of a pair of doors in accordance with Table 1010.2.4, provided that the inactive leaf does not have a doorknob, panic hardware, or similar operating hardware.
5. Single exit doors complying with Section 1006.2.1 or 1006.3.4 from individual *dwelling* or sleeping units of Group R occupancies and equipped with a night latch, dead bolt or security chain that requires a second releasing motion, provided that such devices are openable from the inside without the use of a key or tool.
6. Fire doors after the minimum elevated temperature has disabled the unlatching mechanism in accordance with *listed* fire door test procedures.
7. Doors serving roofs not intended to be occupied shall be permitted to be locked, preventing entry to the building from the roof.
8. Other than *egress courts*, where occupants must egress from an exterior space through the building for *means of egress*, *exit access* doors shall be permitted to be equipped with an *approved* locking device where installed and operated in accordance with all of the following:
   - 8.1. The maximum *occupant load* shall be posted where required by Section 1004.9. Such sign shall be permanently affixed inside the building and shall be posted in a conspicuous space near all the *exit access doorways*.
   - 8.2. A weatherproof telephone or two-way communication system installed in accordance with Sections 1009.8.1 and 1009.8.2 shall be located adjacent to not less than one required *exit access* door on the exterior side.
   - 8.3. The egress door locking device is readily distinguishable as locked and shall be a key-operated locking device.
   - 8.4. A clear window or glazed door opening, not less than 5 square feet (0.46 m^2) in area, shall be provided at each *exit access* door to determine if there are occupants using the outdoor area.
   - 8.5. A readily visible durable sign shall be posted on the interior side on or adjacent to each locked required *exit access* door serving the exterior area stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THE OUTDOOR AREA IS OCCUPIED." The letters on the sign shall be not less than 1 inch (25.4 mm) high on a contrasting background.
   - 8.6. The *occupant load* of the occupied exterior area shall not exceed 300 occupants in accordance with Section 1004.
9. Locking devices are permitted on doors to balconies, decks or other exterior spaces serving individual *dwelling* or *sleeping units*.
10. Locking devices are permitted on doors to balconies, decks or other exterior spaces of 250 square feet (23.23 m^2) or less, serving a private office space.

51-54A-1010	Controlled Egress Doors in Groups I-1 and I-2	1010.2.14	1010.2.13	Modify to correlate between IBC	

[BE] 1010.2.13 Controlled egress doors in Groups I-1 and I-2. Controlled egress electrical locking systems where egress is controlled by authorized personnel shall be permitted on doors in the means of egress in Group I-1 or I-2 occupancies where the clinical needs of persons receiving care require their containment. Controlled egress doors shall be permitted in such occupancies where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an *approved automatic smoke detection system* installed in accordance with Section 907, provided that the doors are installed and operate in accordance with all of the following:

1. The door's electric locks shall unlock on actuation of the *automatic sprinkler system* or *automatic smoke detection system* allowing immediate free egress.
2. The door's electric locks shall unlock on loss of power to the electrical locking system or to the electric lock mechanism allowing immediate free egress.
3. The electrical locking system shall be installed to have the capability of unlocking the electric locks by a switch located at the *fire command center*, a nursing station or other *approved* location. The switch shall directly break power to the electric lock.
4. A building occupant shall not be required to pass through more than one door equipped with a controlled egress locking system before entering an *exit*.
5. The procedures for unlocking the doors shall be described and *approved* as part of the emergency planning and preparedness required by Chapter 4.
6. All clinical staff shall have the keys, codes or other means necessary to operate the controlled egress electrical locking systems.
7. There is a system, such as a keypad and code, in place that allows visitors, staff persons and appropriate residents to exit. Instructions for exiting shall be posted within six feet of the door.
8. Emergency lighting shall be provided at the door.
9. The electromechanical or electromagnetic locking device shall be listed in accordance with either UL 294 or UL 1034.

Exceptions:

1. Items 1 through 4, and 7, shall not apply to doors to areas occupied by persons who, because of clinical needs, require restraint or containment as part of the function of a psychiatric or cognitive treatment area, provided that all clinical staff shall have the keys, codes or other means necessary to operate the locking devices.
2. Items 1 through 4, and 7, shall not apply to doors to areas where a *listed* egress control system is utilized to reduce the risk of child abduction from nursery and obstetric areas of a Group I-2 hospital.

51-54A-1010	Security grilles.	1010.3.4	1010.3.4	Repeal existing state amendments:	Model language was inclusive of the amendment in 2021 code

[BE] 1010.3.4 Security grilles. In Groups B, F, M and S, horizontal sliding or vertical security grilles are permitted at the main *exit* and shall be openable from the inside without the use of a key or special knowledge or effort during periods that the space is occupied. The grilles shall remain secured in the full-open position during the period of occupancy by the general public. Where two or more *exits* or *access to exits* are required, not more than one-half of the *exits* or exit access doorways shall be equipped with horizontal sliding or vertical security grilles.

51-54A-1010	Fixed transit and passenger rail systems.	1010.3.4.1	1010.3.4.1	Keep exisiting amendement:	

1010.3.4.1 Fixed Transit and Passenger Rail Systems. In fixed transit and passenger rail system stations horizontal and vertical security grilles are permitted at station entrances as a component in the means of egress when the station is under constant supervision by on-site security personnel and an exit door with panic hardware that swings in the direction of egress, with a minimum clear width of 32 inches (813 mm), provided within 10 feet of the gate. The security grilles shall remain secured in the full-open position during the period of occupancy by the general public.

51-54A-1011	Stairways in individual dwelling units.	1011.17	1011.17	Modify	Relocate to 1011.1 Ex#2 to Correlate with WA Building Code

1011.17 Stairways in individual dwelling units. Stairs or ladders within an individual dwelling unit used for access to areas of 200 square feet (18.6 m2) or less, and not containing the primary bathroom or kitchen, are exempt from the requirements of Section 1009.

51-54A-1012	Scope	1012.1	1012.1	Keep exisiting amendement:	

[BE] 1012.1 Scope. The provisions of this section shall apply to *ramps* used as a component of a *means of egress*.

Exceptions:

~~1. Ramped *aisles* within assembly rooms or spaces shall comply with the provisions in Section 1030.~~

~~2. Curb *ramps* shall comply with ICC A117.1.~~

~~3. Vehicle *ramps* in parking garages for pedestrian *exit access* shall not be required to comply with Sections 1012.3 through 1012.10 where they are not an *accessible route* serving accessible parking spaces, other required accessible elements or part of an *accessible means of egress*.~~

1. Other than ramps that are part of the accessible routes providing access in accordance with Sections 1108.2 through 1108.6 of the International Building Code ramped aisles within assembly rooms or spaces shall conform with the provisions in Section 1030.
2. Curb ramps shall comply with ICC A117.1.
3. Vehicle ramps in parking garages for pedestrian exit access shall not be required to comply with Sections 1012.3 through 1012.10 of the International Building Code when they are not an accessible route serving accessible parking spaces or other required accessible elements.
4. In a parking garage where one accessible means of egress serving accessible parking spaces or other accessible elements is provided, a second accessible means of egress serving that area may include a vehicle ramp that does not comply with Sections 1012.5, 1012.6, and 1012.9 of the International Building Code. A landing complying with Sections 1012.6.1 and 1012.6.4 of the International Building Code shall be provided at any change of direction in the accessible means of egress.

51-54A-1014	Height and location.	1014.2	1014.2	Keep exisiting amendement:	Review Further and Coordinate with Building TAG

[BE] 1014.2 Height. Handrail height, measured from a line connecting the nosings of *flights* of stairs or finish surface of ramp slope, shall be uniform, not less than 34 inches (864 mm) and not more than 38 inches (965 mm). Handrail height of *alternating tread devices* and ship's ladders, measured from a line connecting the nosings, shall be uniform, not less than 30 inches (762 mm) and not more than 34 inches (864 mm).

Exceptions:

1. Where handrail fittings or bendings are used to provide continuous transition between *flights*, the fittings or bendings shall be permitted to exceed the maximum height.
2. In Group R-3 occupancies; within *dwelling units* in Group R-2 occupancies; and in Group U occupancies that are associated with a Group R-3 occupancy or associated with individual *dwelling units* in Group R-2 occupancies; where handrail fittings or bendings are used to provide continuous transition between *flights*, transition at *winder* treads, transition from *handrail* to *guard*, or where used at the start of a *flight*, the *handrail* height at the fittings or bendings shall be permitted to exceed the maximum height.
3. *Handrails* on top of a *guard* where permitted along stepped *aisles* and ramped *aisles* in accordance with Section 1030.16.

51-54A-1014	Height	1014.2.1	1014.2.1	Keep exisiting amendement:	Review Further and Coordinate with Building TAG

[BE] 1014.2 Height. Handrail height, measured from a line connecting the nosings of *flights* of stairs or finish surface of ramp slope, shall be uniform, not less than 34 inches (864 mm) and not more than 38 inches (965 mm). Handrail height of *alternating tread devices* and ship's ladders, measured from a line connecting the nosings, shall be uniform, not less than 30 inches (762 mm) and not more than 34 inches (864 mm).

Exceptions:

1. Where handrail fittings or bendings are used to provide continuous transition between *flights*, the fittings or bendings shall be permitted to exceed the maximum height.
2. In Group R-3 occupancies; within *dwelling units* in Group R-2 occupancies; and in Group U occupancies that are associated with a Group R-3 occupancy or associated with individual *dwelling units* in Group R-2 occupancies; where handrail fittings or bendings are used to provide continuous transition between *flights*, transition at *winder* treads, transition from *handrail* to *guard*, or where used at the start of a *flight*, the *handrail* height at the fittings or bendings shall be permitted to exceed the maximum height.
3. *Handrails* on top of a *guard* where permitted along stepped *aisles* and ramped *aisles* in accordance with Section 1030.16.

51-54A-1014	Lateral location	1014.2.2	1014.2.3	Repeal existing state amendments:	New model code language is identical

[BE] 1014.3 Lateral location. Handrails located outward from the edge of the walking surface of *flights* of stairways, *ramps*, stepped *aisles* and ramped *aisles* shall be located 6 inches (152.4 mm) or less measured horizontally from the edge of the walking surface. Handrails projecting into the width of the walking surface shall comply with Section 1014.9.

51-54A-1014	Projections	1014.9	1014.9	Keep exisiting amendement:	

[BE] 1014.9 Projections. On *ramps* and on ramped *aisles* that are part of an *accessible route*, the clear width between *handrails* shall be 36 inches (914 mm) minimum. Projections into the required width of stepped and ramped *aisles*, flight of *stairways* and *ramps* at each side shall not exceed $4^1/_2$ inches (114 mm) at or below the *handrail* height. Projections into the required width shall not be limited above the minimum head- room height required in Section 1011.3. Projections due to intermediate *handrails* shall not constitute a reduction in the egress width. Where a pair of intermediate *handrails* are provided within the *stairway* width without a walking surface between the pair of intermediate *handrails* and the distance between the pair of intermediate *handrails* is greater than 6 inches (152 mm), the available egress width shall be reduced by the distance between the closest edges of each such intermediate pair of *handrails* that is greater than 6 inches (152 mm).

51-54A-1015	Where required	1015.2	1015.2	Repeal existing state amendments:	New model code language is identical

[BE] 1015.2 Where required. *Guards* shall be located along open-sided walking surfaces, such as *mezzanines*, equipment platforms, *aisles*, *stairs*, *ramps* and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side and at the perimeter of *occupiable roofs*. *Guards* shall be adequate in strength and attachment in accordance with Section 1607.9 of the *International Building Code*.

Exception: *Guards* are not required for the following locations:

1. On the loading side of loading docks or piers.
2. On the audience side of stages and raised platforms, including *stairs* leading up to the stage and raised platforms.
3. On raised stage and platform floor areas, such as runways, *ramps* and side stages used for entertainment or presentations.
4. At vertical openings in the performance area of stages and platforms.
5. At elevated walking surfaces appurtenant to stages and platforms for access to and utilization of special lighting or equipment.
6. Along vehicle service pits not accessible to the public.
7. In assembly seating areas at cross *aisles* in accordance with Section 1030.17.2.
8. On the loading side of station platforms on fixed guideway transit or passenger rail systems.
9. Portions of an *occupiable roof* located less than 30 inches (762 mm) measured vertically to adjacent unoccupiable roof areas where approved guards are present at the perimeter of the roof.
10. At portions of an *occupiable roof* where an *approved* barrier is provided.

51-54A-1015	Height	1015.3	1015.3	Keep exisiting amendement:	

[BE] 1015.3 Height. Required *guards* shall be not less than 42 inches (1067 mm) high, measured vertically as follows:

1. From the adjacent walking surfaces.
2. On *stairways* and stepped *aisles*, from the line connecting the *nosings*.
3. On *ramps* and ramped *aisles*, from the *ramp* surface at the *guard*.

Exceptions:

1. For occupancies in Group R-3 not more than three stories above grade in height and within individual *dwelling units* in occupancies in Group R-2 not more than three stories above grade in height with separate *means of egress*, required *guards* shall be not less than 36 inches (914 mm) in height measured vertically above the adjacent walking surfaces.
2. For occupancies in Groups R-2 and R-3, within the interior conditioned space of individual *dwelling units*, where the open-sided walking surface is located not more than 25 feet (7.62 meters) measured vertically to the floor or walking surface below, required guards shall not be less than 36 inches (914 mm) in height measured vertically above the adja- cent walking surface.
3. For occupancies in Group R-3, and within individual *dwelling units* in occupancies in Group R-2, *guards* on the open sides of *stairs* shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the nosings.
4. For occupancies in Group R-3, and within individual *dwelling units* in occupancies in Group R-2, where the top of the *guard* serves as a *handrail* on the open sides of *stairs*, the top of the *guard* shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the nosings.
5. In areas with ceiling heights of 7 feet (2134 mm) or less in lofts constructed in accordance with Section 420.14, guards shall not be less than 36 inches (914 mm) in height or one-half of the clear height from the loft floor to the loft ceiling, whichever is less.
6. The *guard* height in assembly seating areas shall comply with Section 1030.17 as applicable.
7. Along *alternating tread devices* and ship's ladders, *guards* where the top rail serves as a *handrail* shall have height not less than 30 inches (762 mm) and not more than 34 inches (864 mm), measured vertically from a line connecting the leading edge of the treads.
8. In Group F occupancies where *exit access stairways* serve fewer than three stories and such *stairways* are not open to the public, and where the top of the *guard* also serves as a *handrail*, the top of the *guard* shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the nosings.

51-54A-1017	Exit Access Travel Distance	Table 1017.2	Table 1017.2	Keep exisiting amendement:	

[BE] TABLE 1017.2—EXIT ACCESS TRAVEL DISTANCE[a]

OCCUPANCY	WITHOUT AUTOMATIC SPRINKLER SYSTEM (feet)	WITH AUTOMATIC SPRINKLER SYSTEM (feet)
A, E, F-1, M, R, S-1	200[e]	250[b, e]
I-1	Not Permitted	250[b]
B	200	300[c]
F-2, S-2, U	300	400[c]
H-1	Not Permitted	75[d]
H-2	Not Permitted	100[d]
H-3	Not Permitted	150[d]
H-4	Not Permitted	175[d]
H-5	Not Permitted	200[c]
I-2, I-3	Not Permitted	200[c]
I-4	150	200[c]

For SI: 1 foot = 304.8 mm.

a. See the following sections for modifications to exit access travel distance requirements:
Section 402.8 of the *International Building Code*: For the distance limitation in malls.
Section 407.4 of the *International Building Code*: For the distance limitation in Group I-2.
Sections 408.6.1 and 408.8.1 of the *International Building Code*: For the distance limitations in Group I-3.
Section 411.2 of the *International Building Code*: For the distance limitation in special amusement areas.
Section 412.6 of the *International Building Code*: For the distance limitations in aircraft manufacturing facilities.
Section 1006.2.2.2: For the distance limitation in refrigeration machinery rooms.
Section 1006.2.2.3: For the distance limitation in refrigerated rooms and spaces.
Section 1006.3.4: For buildings with one exit.
Section 1017.2.2: For increased distance limitation in Groups F-1 and S-1.
Section 1017.2.3: For increased distance limitation in Group H-5.
Section 1030.7: For increased limitation in assembly seating.
Section 3103.4 of the *International Building Code*: For temporary structures.
Section 3104.9 of the *International Building Code*: For pedestrian walkways.

b. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2. See Section 903 for occupancies where automatic sprinkler systems are permitted in accordance with Section 903.3.1.2.

c. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

d. Group H occupancies equipped throughout with an automatic sprinkler system in accordance with Section 903.2.5.1.

e. Group R-3 and R-4 buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.3. See Section 903.2.8 for occupancies where automatic sprinkler systems are permitted in accordance with Section 903.3.1.3.

51-54A-1020	Air movement in corridors.	1020.6	1020.6	Keep exisiting amendement:	

[BE] 1020.6 Air movement in corridors. *Corridors* shall not serve as supply, return, exhaust, relief or ventilation air ducts.

Exceptions:

1. Use of a *corridor* as a source of makeup air for exhaust systems in rooms that open directly onto such *corridors*, including toilet rooms, bathrooms, dressing rooms, smoking lounges and janitor closets, shall be permitted, provided that each such *corridor* is directly supplied with outdoor air at a rate greater than the rate of makeup air taken from the *corridor*.
2. Where located within a *dwelling unit*, the use of *corridors* for conveying return air shall not be prohibited.
3. Where located within tenant spaces of 1,000 square feet (93 m^2) or less in area, utilization of *corridors* for conveying return air is permitted.
4. Transfer air movement required to maintain the pressurization difference within health care facilities in accordance with ASHRAE 170. Incidental air movement from pressurized rooms within health care facilities, provided that a corridor is not the primary source of supply or return to the room.
5. Where such air is part of an engineered smoke control system.
6. Air supplied to corridors serving residential occupancies shall not be considered as providing ventilation air to the dwelling units subject to the following:
   - 6.1 The air supplied to the corridor is 100 percent outside air; and
   - 6.2 The units served by the corridor have conforming ventilation air independent of the air supplied to the corridor; and
   - 6.3 For other than high-rise buildings, the supply fan will automatically shut off upon activation of corridor smoke detectors which shall be spaced at no more than 30 feet (9144 mm) on center along the corridor; or
   - 6.4 For high-rise buildings, corridor smoke detector activation will close required smoke/fire dampers at the supply inlet to the corridor at the floor receiving the alarm.

1023.12	Smokeproff enclosures	1023.12	1023.12	Keep exisiting amendement:	

[BE] 1023.12 Smokeproof enclosures. Where required by Section 403.5.4, 405.7.2 or 412.2.2.1 of the *International Building Code*, *interior exit stairways* and *ramps* shall be smokeproof enclosures in accordance with Section 909.20. of the *International Building Code*. Where interior exit stairways and ramps are pressurized in accordance with Section 909.20.5 of the *International Building Code*, the smoke control pressurization system shall comply with the requirements specified in Section 909.6.3 of the *International Building Code*.

11 Construction Requirements for Existing Buildings

51-54A-1103	Fire safety requirements for existing buildings.	1103.2	1103.2	Repeal existing state amendments	Language is identical to state amendment in 2021

1103.2 Emergency responder communications enhancement in existing buildings. Existing buildings other than Group R-3 that do not have *approved* in-building emergency response communications enhancement for emergency responders in the building based on existing coverage levels of the public safety communication systems, shall be equipped with such coverage according to one of the following:

1. Where an existing wired communication system cannot be repaired or is being replaced, or where not *approved* in accordance with Section 510.1, Exception 1.
2. Within a time frame established by the adopting authority.

Exception: Where it is determined by the *fire code official* that the in-building emergency responder communications enhancement system is not needed.

51-54A-1103	More than five Stories	1103.4.3	1103.4.3	Keeping exisiting amendement	review existing state amendment for accuracy within 2024 code

1103.4.3 More than five stories. In other than Group I ~~-2 and I-3~~ occupancies, interior vertical openings connecting more than five stories shall be protected by 1-hour *fire-resistance-rated* construction.

Exceptions:

1. Vertical opening protection is not required for Group R-3 occupancies.
2. Vertical opening protection is not required for open parking garages and ramps.
3. Vertical opening protection for escalators shall be in accordance with Section 1103.4.5, 1103.4.6 or 1103.4.7.
4. *Exit access stairways* and *ramps* shall be in accordance with Section 1103.4.8.

51-54A-1103	Nightclub	1103.5.6	1103.5.6	Keeping exisiting amendement	

1103.5.6 Nightclub. An automatic sprinkler system shall be provided throughout A-2 nightclubs as defined in this code. No building shall be constructed for, used for, or converted to occupancy as a nightclub except in accordance with this section.

51-54A-1103	Carbon Monoxide Alarms	1103.9	1103.9	Keeping exisiting amendement	Correlate change 915.4.3 in WAC to 915.1.1?

1103.9 Carbon monoxide detection. Carbon monoxide detection shall be installed in existing buildings where any of the conditions identified in Section 915.1.1 exist. Carbon monoxide alarms shall be installed in the locations specified in Section 915.2 and the installation shall be in accordance with Section 915.4.

Exceptions:

1. Carbon monoxide alarms are permitted to be solely battery operated where the code that was in effect at the time of construction did not require carbon monoxide detectors to be provided.
2. Carbon monoxide alarms are permitted to be solely battery operated in *dwelling units* that are not served from a commercial power source.
3. A carbon monoxide detection system in accordance with Section 915.5 shall be an acceptable alternative to carbon monoxide alarms.

51-54A-1104	Means of egress for existing buildings:General	1104.1	1104.1	Keeping exisiting amendement	

1104.1 General. *Means of egress* in existing buildings shall comply with Section 1032 and 1104.2 through 1104.25. ~~the minimum egress requirements where specified in Table 1103.1 as further enumerated in Sections 1104.2 through 1104.25, and the building code that applied at the time of construction. Where the provisions of this chapter conflict with the building code that applied at the time of construction, the most restrictive provision shall apply. Existing buildings that were not required to comply with a building code at the time of construction shall comply with the minimum egress requirements where specified in Table 1103.1 as further enumerated in Sections 1104.2 through 1104.25.~~

51-54A-1105	Construction requirments for existing froup I-2	1105.1	1105.1	Keeping exisiting amendement	

1105.1 General.: This section shall be applied by jurisdictions conducting surveys for compliance with the federal centers for medicare and medicaid reimbursement program. Existing Group I-2 shall meet all of the following requirements.

1. The minimum fire safety requirements in Section 1103.
2. The minimum *means of egress* requirements in Section 1104.
3. The additional egress and construction requirements in Section 1105.

Where the provisions of this chapter conflict with the construction requirements that applied at the time of construction, the most restrictive provision shall apply.

TAG Member: Quyen Thai		12 Energy Systems			
51-54A-1201	Scope	1201.1	1201.1	Repeal existing state amendments:	

1201.1 Scope. The provisions of this chapter shall apply to the installation, operation, maintenance, repair, retrofitting, testing, commissioning and decommissioning of energy systems used for generating or storing energy, including but not limited to energy storage systems under the exclusive control of an electric utility or lawfully designated agency. It shall not apply to equipment associated with the generation, control, transformation, transmission, or distribution of energy installations that is under the exclusive control of an electric utility or lawfully designated agency. Energy storage systems regulated by Section 1207 shall comply with this chapter, as appropriate, and NFPA 855.

1201.1 Scope. The provisions of this chapter shall apply to the installation, operation, maintenance, repair, retrofitting, testing, commissioning and decommissioning of energy systems used for generating or storing energy including, but not limited to, energy storage systems under the exclusive control of an electric utility or lawfully designated agency. It shall not apply to equipment associated with the generation, control, transformation, transmission, or distribution of energy installations that is under the exclusive control of an electric utility or lawfully designated agency. Energy storage systems regulated by WAC **51-54A-1207** shall comply with this chapter as appropriate and NFPA 855.

51-54A-1201	Mixed System Installation	1201.3	1201.3	Repeal existing state amendments:	Amendment picked up by model code

1201.3 Mixed system installation. Where mixed systems are *approved*, the aggregate nameplate kWh energy of all energy storage systems in a *fire area* shall not exceed the maximum quantity specified for any of the energy systems in this chapter. Where required by the *fire code official*, a hazard mitigation analysis shall be provided and *approved* in accordance with Section 104.2.2 to evaluate any potential adverse interaction between the various energy systems and technologies.

51-54A-1205	General	1205.1	1205.1	Keep WAC amendments	Remove Second Sentence of State Amendment

1205.1 General. Installation, modification, or alteration of solar photovoltaic power systems shall comply with this section. Due to the emerging technologies in the solar photovoltaic industry, it is understood fire code officials may need to amend prescriptive requirements of this section to meet the requirements for firefighter access and product installations. Section 104.10 Alternative materials and methods of this code shall be considered when approving the installation of solar photovoltaic power systems. Solar photovoltaic power systems shall be installed in accordance with Sections 1205.2.1 through 1205.6, the *International Building Code*, and chapter **19.28** RCW. ~~Solar photovoltaic (PV) systems shall be installed in accordance with the *International Building Code* or *International Residential Code*. The electrical portion of solar PV systems shall be installed in accordance with NFPA 70. Rooftop mounted solar photovoltaic systems shall be installed in accordance with Sections 1205.2 through 1205.4.3. Ground mounted solar photovoltaic systems shall comply with Section 1205.5.~~

51-54A-1205	Solar PV systems for Group R-3 Residential and buildings built under the IRC	1205.2.1	1205.2.1	Keep WAC amendments	Needs Further Review

1205.2.1 Solar photovoltaic (PV) systems for Group R-3 Residential and Buildings Built Under the *International Residential Code*. Solar photovoltaic (PV) systems for Group R-3 and buildings built under the *International Residential Code* shall comply with Sections 1205.2.1.1 through 1205.2.3.

Exceptions:

~~1. These requirements shall not apply to structures designed and constructed in accordance with the *International Residential Code*.~~

~~2. These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (16.7 percent slope) or less.~~

1. Residential dwellings with an approved automatic fire sprinkler system installed.
2. Residential dwellings with approved mechanical or passive ventilation systems.
3. Where the fire code official determines that the slope of the roof is too steep for emergency access.
4. Where the fire code official determines that vertical ventilation tactics will not be utilized.
5. These requirements shall not apply to roofs where the total combined area of the solar array does not exceed 33 percent as measured in plan view of the total roof area of the structure, where the solar array will measure 1,000 sq. ft. or less in area, and where a minimum 18 inches unobstructed pathway shall be maintained along each side of any horizontal ridge.

51-54A-1205	Size of solar PV Array	1205.6	1205.6	Keep WAC amendments	

1205.6 Size of solar photovoltaic array.

1. Each photovoltaic array shall be limited to 150 feet (45,720 mm) by 150 feet (45,720 mm). Multiple arrays shall be separated by a 3-foot wide (914 mm) clear access pathway.
2. Panels/modules shall be located up to the roof ridge where an alternative ventilation method approved by the fire *code official* has determined vertical ventilation techniques will not be employed.

51-54A-1206	General	1206.1	1206.1	Can remove since the 2024 model code is the exact same wording.	

1206.1 General. *Stationary fuel cell power systems* in new and existing occupancies shall comply with this section.

Exception: The temporary use of a fuel cell-powered electric vehicle to power a Group R-3 or R-4 building while parked shall comply with Section 1206.13.

51-54A-1206	Residential Use	1206.5	1206.5	Can remove since the 2024 model code is the exact same wording.	

1206.5 Residential use. *Stationary fuel cell power systems* shall not be installed in Group R-3 and R-4 buildings, or *dwelling units* associated with Group R-2 buildings unless they are specifically *listed* for residential use.

Exception: The temporary use of a fuel cell-powered electric vehicle to power a Group R-3 or R-4 building while parked shall comply with Section 1206.13.

51-54A-1206	Gas detection systems	1206.6.3	1206.6.3	Can remove since the 2024 model code is the exact same wording.	

1206.6.3 Gas detection systems. *Stationary fuel cell power systems* shall be provided with a *gas detection system*. Detection shall be provided in *approved* locations in the fuel cell power system enclosure, the exhaust system or the room that encloses the fuel cell power system. The system shall be designed to activate at a *flammable gas* concentration of not more than 25 percent of the lower flammable limit (LFL).

51-54A-1206	System activation	1206.6.3.1	1206.6.3.1	Can remove since the 2024 model code is the exact same wording.	

1206.6.3.1 System activation. The activation of the *gas detection system* shall automatically:

1. Close valves between the gas supply and the fuel cell power system.
2. Shut down the fuel cell power system.
3. Initiate local audible and visible alarms in *approved* locations.

51-54A-1207	Stationary Fuel Cell Power Systems	1207	1207	We need to re-evaluate this section since there have been some changes to the 2024 model code and we will need to look at this further to modify the state WAC.	Proposal needed to reorganize amendments in this section to align with 2024 code.

13 Reserved

14 Reserved

15 Reserved

16 Reserved					
17 Reserved					
18 Reserved					
19 Reserved					
20 Aviation Facilities					
NO AMENDMENTS					
21 Dry Cleaning					
NO AMENDMENTS					
22 Combustible Dust-Producing Operations					
NO AMENDMENTS					
23 Motor Fuel-Dispensing Facilities and Repair Garages					
NO AMENDMENTS					
24 Flammable Finishes					
51-54-2404	Prohibited enclosures for spray application operations	2404.2.1	2404.2 | 2404.3	No longer need amendment. Model code now reflects the WAC with slight difference of making 2404.3.5 as 2404.3 in the 2024 IFC.	

2404.2 Prohibited enclosures for spray application operations. Inflatable or portable enclosures shall not be used for spray application of flammable finishes.

Exception: Enclosures for the spray application of flammable finishes in marinas, dry docking areas or construction areas shall comply with Section 2404.3.

2404.3 Membrane enclosures. The design, construction, protection, operation and maintenance of membrane enclosures shall be in accordance with NFPA 33.

25 Fruit and Crop Ripening Reserved					
NO AMENDMENTS					
26 Fumigation and Insecticidal Fogging					
NO AMENDMENTS					

27 Semiconductor Fabrication Facilities					
NO AMENDMENTS					
28 Lumber Yards and Agro-Industrial, Solid Biomass and Woodworking Facilities					
NO AMENDMENTS					
29 Manufacture of Organic Coatings					
NO AMENDMENTS					
30 Industrial Ovens					
NO AMENDMENTS					
31 Tents, Temporary Special Event Structures and Other Membrane Structures					
51-54A-3103	Use period	3103.5	3103.4	Keep WAC amendments	Correlate change in code section only. Code amendment still valid.
3103.4 Use period. Temporary *tents*, air-supported, air-inflated or tensioned *membrane structures* are permitted to ~~shall not~~ be erected for a period of ~~more~~ less than 180 days within a 12-month period on a single premises. Such structures erected for 180 days or more within a 12-month period shall comply with the IBC.					
	Inflatable Amusement Devises		3106	Needs further review	

SECTION 3106—INFLATABLE AMUSEMENT DEVICES

3106.1 Scope. Inflatable amusement devices shall comply with this section.

Exception: Inflatable amusement devices operated on private property where use is not open to the public.

3106.2 General. Inflatable amusement devices shall be designed, anchored, operated and maintained in accordance with the manufacturer's instructions and the requirements of ASTM F2374.

3106.3 Combustible materials. The materials used in the construction of the inflatable amusement device shall meet the flame propagation criteria of Test Method 2 of NFPA 701. Additionally, a label and affidavit containing the information required in Sections 3104.3 and 3104.4 of this code shall be permanently affixed to the device.

3106.4 Electrical equipment and wiring. Electrical equipment, blower motors and temporary wiring for electrical power or lighting shall comply with Section 603.

3106.5 Portable generators. Portable generators shall comply with the applicable provisions of NFPA 70 and with the portable generator requirements of this code.

3106.6 Portable fire extinguishers. Each generator shall be provided with an *approved* portable fire extinguisher complying with Section 906 that is placed in an *approved* location.

32 High-piled Combustible Storage
NO AMENDMENTS
33 Fire Safety During Construction and Demolition

51-54A-3303	Administrative Safety Controls	3303	3303	Delete State amendment. Model code language is the same.	

Section 3303 - Administrative Safety Controls

51-54A-3303	Components of Site Safety Plans	3303.1.1	3303.1.1	Delete State amendment. Model code language is the same.	

3303.1.1 Components of site safety plans. *Site safety plans* shall include the following as applicable

1. Name and contact information of site safety director.
2. Documentation of the training of the site safety director and fire watch personnel.
3. Procedures for reporting emergencies.
4. Fire department vehicle access routes.
5. Location of fire protection equipment, including portable fire extinguishers, standpipes, fire department connections and fire hydrants.
6. Smoking and cooking policies, designated areas to be used where *approved* , and signage locations in accordance with Section 3305.7.
7. Location and safety considerations for temporary heating equipment.
8. Hot work permit plan.
9. Plans for control of combustible waste material.
10. Locations and methods for storage and use of *flammable* and *combustible liquids* and other hazardous materials.
11. Provisions for site security and where required, for a fire watch.
12. Changes that affect this plan.
13. Other site-specific information required by the *fire code official* .

51-54A-3303	Training	3303.2.1	3303.2.1	Delete State amendment. Model code language is the same.	

3303.2.1 Training. Training of fire watch and other responsible personnel in the use of fire protection equipment shall be the responsibility of the site safety director. Records of training shall be kept and made a part of the written plan for the *site safety plan* .

51-54A-3303	Daily Fire Safety Inspections	3303.3 #6	3303.3 #6	Keep State amendment. Model code section referenced is incorrect.	

6. Fire apparatus access roads required by Section ~~3311~~ 3307 are maintained clear of obstructions that reduce the width of the usable roadway to less than 20 feet (6096 mm).

51-54A-3303	Daily Fire Safety Inspections	3303.3 #9	3303.3 #9	Keep State amendment. Model code section referenced is incorrect.	

9. Standpipe systems are in service and continuous to the highest work floor, as specified in Section ~~3307.2~~ 3307.5.

51-54A-3303	Daily Fire Safety Inspections	3303.3 #10	3303.3 #10	Delete State amendment. Model code language is the same.	

10. Portable fire extinguishers are available in locations required by Sections 3305.10.2 and 3306.6.					
51-54A-3303	Fire Watch	3303.5	3303.5	Keep State amendment. Reduces cost to IRC projects.	
3303.5 Fire watch. Where required by the *fire code official* or the *site safety plan* established in accordance with Section 3303.1, a fire watch shall be provided for building **Exception:** New construction that is built under the International Residential Code.					
51-54A-3303	Fire Watch During Construction	3303.5.1	3303.5.1	Delete State amendment. Model code language is the same.	
3303.5.1 Fire watch during construction. A fire watch shall be provided during nonworking hours for new construction that exceeds 40 feet (12 192 mm) in height above the					
51-54A-3303	Fire Watch Personnel	3303.5.2	3303.5.2	Delete State amendment. Model code language is the same.	
3303.5.2 Fire watch personnel. Fire watch personnel shall be provided in accordance with this section.					
51-54A-3303	Duties	3303.5.2.1	3303.5.2.1	Delete State amendment. Model code language is the same.	
3303.5.2.1 Duties. The primary duty of fire watch personnel shall be to perform constant patrols and watch for the occurrence of fire. The combination of fire watch duties					
51-54A-3303	Training	3303.5.2.2	3303.5.2.2	Keep State amendment. Additional referenced section to portable fire extinguishers still necessary.	
3303.5.2.2 Training. Personnel shall be trained to serve as an on-site fire watch. Training shall include the use of portable fire extinguishers. Fire extinguishers and fire					
51-54A-3303	Means of Notification	3303.5.2.3	3303.5.2.3	Delete State amendment. Model code language is the same.	
3303.5.2.3 Means of notification. Fire watch personnel shall be provided with not fewer than one *approved* means for notify- ing the fire department.					
51-54A-3303	Fire Watch Location and Records	3303.5.3	3303.5.3	Delete State amendment. Model code language is the same.	
3303.5.3 Fire watch location and records. The fire watch shall include areas specified by the *site safety plan* established in accordance with Section 3303.					
51-54A-3303	Fire Watch Records	3303.5.4	3303.5.4	Delete State amendment. Model code language is the same.	
3303.5.4 Fire watch records. Fire watch personnel shall keep a record of all time periods of duty, including the log entry for each time the site was patrolled and each time a structure was entered and inspected. Records shall be made available for review by the *fire code official* upon request.					
51-54A-3303	Emergency Telephone	3303.6	3303.6	Delete State amendment. Model code language is the same.	

3303.6 Emergency telephone. Emergency telephone facilities with *ready access* shall be provided in an *approved* location at the construction site, or an *approved* equivalent means of communication shall be provided. The street address of the construction site and the emergency telephone number of the fire department shall be posted adjacent to the telephone. Alternatively, where an equivalent means of communication has been *approved* , the site address and fire department emergency telephone number shall be posted at the main entrance to the site, in guard shacks and in the construction site office.

51-54A-3304	Combustable Debris, Rubish and Waste	3304.1	3304.1	Delete State amendment. Model code language is the same.	

3304.1 Combustible debris, rubbish and waste. Combustible debris, rubbish and waste material shall comply with the requirements of Sections 3304.1.1 through 3304.2.

51-54A-3304	Combustable Waste Material Accumulation	3304.1.1	3304.1.1	Delete State amendment. Model code language is the same.	

3304.1.1 Combustible waste material accumulation. Combustible debris, rubbish and waste material shall not be accumulated within buildings.

51-54A-3304	Combustable Waste Material Removal	3304.1.2	3304.1.2	Delete State amendment. Model code language is the same.	

3304.1.2 Combustible waste material removal. Combustible debris, rubbish and waste material shall be removed from buildings at the end of each shift of work.

51-54A-3304	Rubbish Containers	3304.1.3	3304.1.3	Delete State amendment. Model code language is the same.	

3304.1.3 Rubbish containers. Where rubbish containers with a capacity exceeding 5.33 cubic feet (40 gallons) (0.15 m) are used for temporary storage of combustible debris,

1. Noncombustible materials.
2. Materials that meet a peak rate of heat release not exceeding 300 kW/m^2 when tested in accordance with ASTM E1354 at an incident heat flux of 50 kW/m^2 in the horizontal orientation.

51-54A-3304	Spontaneous Ignition	3304.2	3304.2	Delete State amendment. Model code language is the same.	

3304.2 Spontaneous ignition. Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a *listed* disposal container.

51-54A-3305	Listed	3305.1	3305.1	Delete State amendment. Model code language is the same.	

3305.1 Listed. Temporary heating devices shall be *listed* and *labeled* . The installation, maintenance and use of temporary heating devices shall be in accordance with the listing and the manufacturer's instructions

51-54A-3305	Oil Fired Heaters	3305.1.1	3305.1.1	Delete State amendment. Model code language is the same.	

3305.1.1 Oil-fired heaters. Oil-fired heaters shall comply with Section 605.

51-54A-3305	LP-Gas heaters	3305.1.2	3305.1.2	Delete State amendment. Model code language is the same.	
3305.1.2 LP-gas heaters. Fuel supplies for liquefied-petroleum gas-fired heaters shall comply with Chapter 61 and the *International Fuel Gas Code* .					
51-54A-3305	Refueling	3305.1.3	3305.1.3	Delete State amendment. Model code language is the same.	
3305.1.3 Refueling. Refueling operations for liquid-fueled equipment or appliances shall be conducted in accordance with Section 5705. The equipment or appliance shall be allowed to cool prior to refueling.					
51-54A-3305	Installation	3305.1.4	3305.1.4	Delete State amendment. Model code language is the same.	
3305.1.4 Installation. Clearance to combustibles from temporary heating devices shall be maintained in accordance with the *labeled* equipment. When in operation, temporary heating devices shall be fixed in place and protected from damage, dislodgement or overturning in accordance with the manufacturer's instructions.					
51-54A-3305	Supervision	3305.1.5	3305.1.5	Delete State amendment. Model code language is the same.	
3305.1.5 Supervision. The use of temporary heating devices shall be supervised and maintained only by competent personnel.					
51-54A-3305	Smoking	3305.2	3305.2	Delete State amendment. Model code language is the same.	
3305.2 Smoking. Smoking shall be prohibited except in *approved* areas. Signs shall be posted in approved areas where smoking is permitted, approved ashtrays shall be provided in accordance with Section 310. accordance with Section 310. In					
51-54A-3305	Cutting and Welding	3305.5	3305.5	Delete State amendment. Model code language is the same.	
3305.5 Cutting and welding. Welding, cutting, open torches and other hot work operations and equipment shall comply with Chap- ter 35.					
51-54A-3305	Electrical	3305.6	3305.6	Delete State amendment. Model code language is the same.	
3305.6 Electrical. Temporary wiring for electrical power and lighting installations used in connection with the construction, *alter- ation* or demolition of buildings, structures, equipment or similar activities shall comply with NFPA 70.					
51-54A-3305	Cooking	3305.7	3305.7	Delete State amendment. Model code language is the same.	
3305.7 Cooking. Cooking shall be prohibited except in *approved* designated cooking areas separated from combustible materials by a minimum of 10 feet (3048 mm). Signs DESIGNATED COOKING AREA COOKING OUTSIDE OF A DESIGNATED					

	COOKING AREA IS PROHIBITED				
51-54A-3305	Portable Generators	3305.8	3305.8	Delete State amendment. Model code language is the same.	
3305.8 Portable generators. Portable generators used at construction and demolition sites shall comply with Section 1204.					
51-54A-3305	Hot Work Operations	3305.9	3305.9	Delete State amendment. Model code language is the same.	
3305.9 Hot work operations. The site safety director shall ensure hot work operations and permit procedures are in accordance with Chapter 35.					
51-54A-3305	Safeguarding Roof Operations General	3305.10	3305.10	Delete State amendment. Model code language is the same.	
3305.10 Safeguarding roofing operations. Roofing operations utilizing heat-producing systems or other ignition sources shall be conducted in accordance with Sections 3305.10.1 and 3305.10.2 and Chapter 35.					
51-54A-3305	Asphalt and Tar Kettles	3305.10.1	3305.10.1	Delete State amendment. Model code language is the same.	
3305.10.1 Asphalt and tar kettles. Asphalt and tar kettles shall be operated in accordance with Section 303.					
51-54A-3305	Fire Extinguishers for Roofing Operations	3305.10.2	3305.10.2	Delete State amendment. Model code language is the same.	
3305.10.2 Fire extinguishers for roofing operations. Fire extinguishers shall comply with Section 906. There shall be not less than one multiple-purpose portable fire extinguisher with a minimum 3-A 40-B:C rating on the roof being covered or repaired.					
51-54-3306	Fire Protection Systems and Devices	3306	3306	Delete State amendment. Model code language is the same.	
SECTION 3306—FIRE PROTECTION SYSTEMS AND DEVICES					
51-54-3306	Fire Protection Devices	3306.1	3306.1	Delete State amendment. Model code language is the same.	
3306.1 Fire protection devices. The site safety director shall ensure that all fire protection equipment is main- tained and serviced in accordance with this code. Fire protection equipment shall be inspected in accordance with the fire protection program					
51-54-3306	Impairment of Fire Protection Systems	3306.2	3306.2	Delete State amendment. Model code language is the same.	
3306.2 Impairment of fire protection systems. The site safety director shall ensure impairments to any *fire protection system* are in accordance with Section 901.					

51-54-3306	Smoke Detectors and Smoke Alarms	3306.3	3306.3	Delete State amendment. Model code language is the same.	
3306.2 Impairment of fire protection systems. The site safety director shall ensure impairments to any *fire protection system* are in accordance with Section 901.					
34 Tire Rebuilding and Tire Storage					
NO AMENDMENTS					
35 Welding and Other Hot Work					
NO AMENDMENTS					
36 Marinas					
51-54A-3601	Permits	3601.3	3601.3	Recommend repeal state amendment	Contained within 105,
3601.3 Permits. For permits to operate marine motor fuel-dispensing stations, application of flammable or combustible finishes, and hot works, see Section 105.5.					
51-54A-3602	Definitions	3602.1	3602.1	Recommend keeping the state amendment	
3602.1 Definitions. The following terms are defined in Chapter 2: *FLOAT.* *MARINA.* *PIER.* *VESSEL.* *WHARF.*					
51-54A-3604	Standpipes	3604.2	3604.2	Recommend keeping the state amendment	
3604.2 ~~Standpipes.~~ ~~Marinas and boatyards shall be equipped throughout with standpipe systems in accordance with NFPA 303. Systems shall be provided with hose connections located such that no point on the marina pier or float system exceeds 150 feet (15 240 mm) from a standpipe hose connection.~~ Marinas and boatyards shall be equipped throughout with Class I manual, dry standpipe systems in accordance with NFPA 303. Systems shall be provided with hose connections located such that no point on the marina pier or float system exceeds 150 feet from a standpipe outlet.					
51-54A-3604	Access and water supply	3604.3	3604.3	Recommend keeping the state amendment	

3604.3 ~~Access and water supply.~~ ~~Piers and wharves shall be provided with fire apparatus access roads and water supply systems with on-site fire hydrants where required by the *fire code official*. Such roads and water systems shall be provided and maintained in accordance with Sections 503 and 507.~~

Piers and wharves shall be provided with fire apparatus access roads and water-supply systems with on-site fire hydrants when required and approved by the fire code official. At least one fire hydrant capable of providing the required fire flow shall be provided within an approved distance of standpipe supply connections.

51-54A-3604	Portable fire extinguishers	3604.4	3604.4	Recommend keeping the state amendment	

3604.4 ~~Portable fire extinguishers.~~ ~~One portable fire extinguisher of the ordinary (moderate) hazard type shall be provided at each required standpipe hose connection. Additional portable fire extinguishers, suitable for the hazards involved, shall be provided and maintained in accordance with Section 906.~~

One 4A40BC rated fire extinguisher shall be provided at each standpipe hose connection. Additional portable fire extinguishers, suitable for the hazards involved, shall be provided and maintained in accordance with Section 906.

51-54A-3604	Smoke and heat vents.	3604.7	3604.7	Recommend keeping the state amendment	

3604.7 Smoke and heat vents. Approved automatic smoke and heat vents shall be provided in covered boat moorage areas exceeding 2,500 sq. ft. (232 m2) in area, excluding roof overhangs.

EXCEPTION: Smoke and heat vents are not required in areas protected by automatic sprinklers.

51-54A-3604	Design and installation.	3604.7.1	3604.7.1	Recommend keeping the state amendment may need to review building code as well	

3604.7.1 Design and installation. Where smoke and heat vents are required they shall be installed near the roof peak, evenly distributed and arranged so that at least one vent is over each covered berth. The effective vent area shall be calculated using a ratio of one square foot of vent to every fifteen square feet of covered berth area (1:15). Each vent shall provide a minimum opening size of 4 ft. x 4 ft.

51-54A-3604	Smoke and heat vents.	3604.7.1.1	3604.7.1.1	Recommend keeping the state amendment may need to review building code as well	Coordinate with Building TAG

3604.7.1.1 Smoke and heat vents. Smoke and heat vents shall operate automatically by actuation of a heat-responsive device rated at 100°F (56°C) above ambient.

EXCEPTION: Gravity-operated drop out vents.

51-54A-3604	Gravity-operated drop out vents	3604.7.1.2	3604.7.1.2	Recommend keeping the state amendment may need to review building code as well	Coordinate with Building TAG

3604.7.1.2 Gravity-operated drop out vents. Gravity-operated drop out vents shall fully open within 5 minutes after the vent cavity is exposed to a simulated fire represented by a time-temperature gradient that reaches an air temperature of 500°F (260°C) within 5 minutes.

51-54A-3604	Draft curtains.	3604.8	3604.8	Recommend keeping the state amendment may need to review building code as well	Coordinate with Building TAG

3604.8 Draft curtains. Draft curtains shall be provided in covered boat moorage areas exceeding 2,500 sq. ft. (232 m2) in area, excluding roof overhangs.

EXCEPTION: Draft curtains are not required in areas protected by automatic sprinklers.

51-54A-3604	Draft curtain construction	3604.8.1	3604.8.1	Recommend keeping the state amendment may need to review building code as well	Coordinate with Building TAG

3604.8.1 Draft curtain construction. Draft curtains shall be constructed of sheet metal, gypsum board or other approved materials that provide equivalent performance to resist the passage of smoke. Joints and connections shall be smoke tight.

51-54A-3604	Draft curtain location and depth.	3604.8.2	3604.8.2	Recommend keeping the state amendment may need to review building code as well	Coordinate with Building TAG

3604.8.2 Draft curtain location and depth. The maximum area protected by draft curtains shall not exceed 2,000 sq. ft. (186 m2) or two slips or berths, whichever is smaller. Draft curtains shall not extend past the piling line. Draft curtains shall have a minimum depth of 4 feet and shall not extend closer than 8 feet (2438 mm) to the walking surface of the pier.

37 Combustible Fibers

NO AMENDMENTS

38 Higher Education Labortories

NO AMENDMENTS

39 Processing and Extraction Facilities

NO AMENDMENTS

40 Storage of Distilled Spirits and Wines

NO AMENDMENTS

41 Temporary Heating and Cooking Operations

NO AMENDMENTS

42 Reserved

43 Reserved					
44 Reserved					
45 Reserved					
46 Reserved					
47 Reserved					
48 Reserved					
49 Fixed Guideway Transit and Passenger Rail Systems					
51-54A-4900	Fixed guideway transit and passenger rail systems	4900	4900	Modify existing state amendments to align with NFPA 130, 2023 Edition. Curent NFPA 130 amendments are to NFPA 130, 2020 Edition as adopted under 2021 Washington State Codes. Minor modifications to existing state amendment will be necessary to align with 2023 Edition. Reorganize section to align with NFPA document organization.	Correlate with IBC Chapter 3116
4901.1 General. Fixed guideway transit and passenger rail systems shall be in accordance with NFPA 130, as modified below.					
4901.2 NFPA 130 Section 3.3.44.2. Add new definition as follows:					
	3.3.44.2 Traction power sub station (TPSS): A TPSS is an electrical substation consisting of switchgear transformers/rectifiers, emergency trip				
4901.3 NFPA 130 Section 5.4.4 Modify NFPA 130 Sections 5.4.4.1 and 5.4.4.1.1 to read as follows:					
	5.4.4.1 An automatic sprinkler system shall be provided throughout enclosed stations.				
	EXCEPTIONS:	1. Traction power substation (TPSS) when located in a transformer vault designed in accordance with the NFPA 70.			
		2. Other high voltage equipment located in a transformer vault designed in accordance with the NFPA 70 when approved by			
		3. Fire command centers, communication room(s), and signal rooms when protected			
		4. Other operational critical rooms when protected with clean agent fire suppression and separated from other spaces with			
	5.4.4.1.1 An automatic sprinkler system shall be provided in areas of open stations used for concessions, markets, storage areas and similar areas				
	EXCEPTIONS:	1. Stations at grade with less than 1,500 sq. ft. of ancillary area/ancillary space.			
		2. Fire command centers, communication room(s), and signal rooms when protected with clean agent fire suppression and			

		3. Other operational critical rooms when protected with clean agent fire suppression and separated from other spaces with			
	5.4.4.2 Sprinkler protection shall be permitted to be omitted in areas of open stations separated from the station by a distance of 20 feet.				
4901.4 NFPA 130 Section 5.4.5. Modify NFPA 130 Sections 5.4.5.1 as follows:					
	5.4.5.1 Class I standpipes shall be installed in enclosed stations in accordance with International Fire Code Section 905 except as modified herein.				
4901.5 NFPA 130 Section 5.4.6. Modify NFPA 130 Sections 5.4.6 as follows:					
	5.4.6 Portable fire extinguishers in such number, size, type, and location in accordance with the International Fire Code Section 906.				
	5.4.6.1 Portable fire extinguishers are not required in public areas of at-grade stations				
4901.6 NFPA 130 Section 5.2.2. Modify NFPA 130 Section 5.2.2.2 as follows:					
	5.2.2.2 Construction types shall conform to the requirements in the International Building Code, Chapter 6, unless otherwise exempted in this				
	Table 5.2.2.1				
	Minimum Construction Requirements for New				
	Station Configuration	**Construction Type†**			
	Stations erected entirely above grade and in a				
	Open stations	Type IIB			
	Enclosed stations	Type IIA			
	Stations erected entirely or partially below grade:				
	Open above grade portions of below grade structures*	Type IIA			
	Below grade portions of structures	Type IB			
	Below grade structures with occupant loads exceeding 1000	Type IA			
	* Roofs not supporting an occupancy above are				
	† Construction types are in accordance with the				
4901.7 NFPA 130 Section 5.2.2. Modify NFPA 130 Section 5.2.4.3 as follows:					
	5.2.4.3 Ancillary spaces. Fire resistance ratings of separations between ancillary occupancies shall be established as required for accessory				
4901.8 NFPA 130 Section 5.2.5. Modify NFPA 130 Section 5.2.5.4 as follows:					
	5.2.5.4 Materials used as interior finish in open stations shall comply with the requirements of the International Building Code, Chapter 8.				
4901.9 NFPA 130 Section 5.3.1. Modify NFPA 130 Section 5.3.1.1 as follows:					
	5.3.1.1 The provisions for means of egress for a station shall comply with the International Building Code, Chapter 10, except as herein modified.				
4901.10 NFPA 130 Section 5.3.2. Add a New Section to NFPA 130 Section 5.3.2.2.1 as follows:					
	5.3.2.2.1 Where station occupancy is anticipated to be greater than design capacity during a major event the operating agency shall initiate approved				
4901.11 NFPA 130 Section 5.3.4. Modify NFPA 130 Section 5.3.2.4(1) as follows:					
	(1) The occupant load for that area shall be determined in accordance with the provisions of the International Building Code as appropriate for the				
4901.12 NFPA 130 Section 5.3.3. Modify NFPA 130 Section 5.3.3.4 as follows:					

	5.3.3.4 Travel distance. For open stations the maximum travel distance on the platform to a point at which a means of egress route leaves the				
4901.13 NFPA 130 Section 5.3.5. Modify NFPA 130 Section 5.3.5.3(2) as follows:					
	(2)* Travel speed - 14.6 m/min (48 ft./min) (indicates vertical component of travel speed).				
	5.3.2.4 Where an area within a station is intended for use by other than passengers or employees, the following parameters shall apply:				
		1. The occupant load for that area shall be determined in accordance with the provisions of the IBC NFPA 101 as appropriate			
		2. The additional occupant load shall be included in determining the required egress from that area.			
		3. The additional occupant load shall be permitted to be omitted from the station occupant load where the area has			
	5.3.3.4 Travel distance. For open stations the maximum travel distance on the platform to a point at which a means of egress route leaves the				
	5.3.5.4 Escalators shall not account for more than one-half of the egress capacity at any one level.				
4901.14 NFPA 130 Section 5.3.5. Delete NFPA 130 Section 5.3.5.5.					
4901.15 NFPA 130 Section 5.3.7. Modify NFPA 130 Section 5.3.7 as follows:					
	5.3.7* Doors, gates, security grilles and exit hatches.				
	5.3.7.1 The egress capacity for doors and gates in a means of egress serving public areas shall be computed as follows:				
		1. Sixty people per minute (p/min) for single leaf doors and gates.			
		2.* 0.0819 p/mm-min (2.08 p/in.-min) for biparting multileaf doors and gates measured for the clear width dimension.			
	5.3.7.2.1 Security grilles are allowed when designed and operated in accordance with the International Building Code.				
4901.16 NFPA 130 Section 5.3.9. Modify NFPA 130 Section 5.3.9 as follows:					
	5.3.9* Horizontal exits. Horizontal exits shall comply with the International Building Code Section 1026.				
4901.17 NFPA 130 Section 5.3.11. Modify NFPA 130 Section 5.3.11 as follows:					
	5.3.11.1 Illumination of the means of egress in stations, including escalators that are considered a means of egress, shall be in accordance with the				
	5.3.11.2 Means of egress, including escalators considered as means of egress, shall be provided with a system of emergency lighting in accordance				
4901.18 NFPA 130 Section 5.4.7. Modify NFPA 130 Section 5.4.7 as follows:					
	5.4.7 Emergency ventilation shall be provided in enclosed stations in accordance with Chapter 7 and the International Building Code Section 909.				
50 Hazardous Materials - General Provisions Reserved					
51 Aerosols					
No Amendments					
52 Reserved					
53 Compressed Gases					
51-54A-5306	General	5306.1	5306.1	Keep Existing Amendment	WA amendment revises section and adds exception.

5306.1 General. ~~Medical gases at health care related facilities intended for patient or veterinary care shall comply with Sections 5306.2 through 5306.5 in addition to other requirements of this chapter and Section 427 of the *International Building Code*~~. Compressed gases at hospitals and similar facilities intended for inhalation or sedation including, but not limited to, analgesia systems for dentistry, podiatry, veterinary and similar uses shall comply with Sections 5306.2 through 5306.5 in addition to other requirements of this chapter

EXCEPTION: All new distribution piping, supply manifolds, connections, regulators, valves, alarms, sensors and associated equipment shall be in accordance with the Plumbing Code.

54 Corrosive Materials
No Amendments

55 Cryogenic Fluids
No Amendments

56 Explosives and Fireworks					
51-54A-5601	**General**	**5601.1**	**5601.1**	Keep Existing Amendment	

5601.1 Scope. The provisions of this chapter shall govern the possession, manufacture, storage, handling, sale and use of *explosives*, *explosive materials*, ~~fireworks~~ and small arms ammunition. The manufacture, storage, handling, sale and use of fireworks shall be governed by chapter 70.77 RCW, and by chapter 212-17 WAC and local ordinances consistent with chapter 212-17 WAC.

Exceptions:

1. The Armed Forces of the United States, Coast Guard or National Guard.
2. *Explosives* in forms prescribed by the official United States Pharmacopoeia.
3. The possession, storage and use of small arms ammunition where packaged in accordance with DOTn packaging requirements.
4. The possession, storage and use of not more than 1 pound (0.454 kg) of commercially manufactured sporting black powder, 20 pounds (9 kg) of smokeless powder and 10,000 small arms primers for hand loading of small arms ammunition for personal consumption.
5. The use of *explosive materials* by federal, state and local regulatory, law enforcement and fire agencies acting in their official capacities.
6. Special industrial *explosive* devices ~~that~~ which in the aggregate contain less than 50 pounds (23 kg) of *explosive materials*.
7. The possession, storage and use of blank industrial-power load cartridges where packaged in accordance with DOTn packaging regulations.
8. Transportation in accordance with DOTn 49 CFR Parts 100–185.
9. Items preempted by federal regulations.

51-54A-5601	Explosive material standard	5601.1.1	5601.1.1	Keep Existing Amendment	

5601.1.1 Explosive material standard. In addition to the requirements of this chapter, NFPA 495 shall govern the manufacture, transportation, storage, sale, handling and use of *explosive materials*. See also chapter 70.74 RCW and chapter 296-52 WAC.

57 Flammable and Combustible Liquids					
5707.1.1 Approval required. *Mobile fueling* operations shall not be conducted without first obtaining an operational permit in accordance with Section 105.5.18. **5707.1.2 Location.** Mobile fueling operations shall occur only at *approved* locations. The *fire code official* is authorized to approve individual locations or geographic areas where *mobile fueling* is allowed.					
51-54A-5704	Underground tanks.	5704.2.11	5704.2.11	Keep Existing Amendment	State Amendment numbering is incorrect. It should be 5704.2.11.1 through 5704.2.11.4.2.1
5704.2.11 Underground tanks. Underground storage of *flammable* and *combustible liquids* in tanks shall comply with Section 5704.2 and Sections 5704.2.11.1 through 5704.2.11.4.2.1. Corrosion protection shall comply with WAC 173-360-305.					
51-54A-5706	Commercial, industrial, governmental or manufacturing.	5706.5.4.5	5706.5.4.5	Keep Existing Amendment as Modified	2024 Code adds Class I and existing state amendment adds #12 to list. Modify text to remove last sentence.
5706.5.4 Dispensing from tank vehicles and tank cars. Dispensing from tank cars into the fuel tanks of motor vehicles shall be prohibited. Dispensing from tank vehicles into the fuel tanks of motor vehicles shall be prohibited unless allowed by and conducted in accordance with Sections 5706.5.4.1 through 5706.5.4.5. **5706.5.4.1 Marine craft and special equipment.** Liquids intended for use as motor fuels are allowed to be transferred from tank vehicles into the fuel tanks of marine craft and special equipment where *approved* by the *fire code official*, and where: 1. The tank vehicle's specific function is that of supplying fuel to fuel tanks. 2. The operation is not performed where the public has access or where there is unusual exposure to life and property. 3. The dispensing line does not exceed 50 feet (15 240 mm) in length. 4. The dispensing nozzle is *approved*. 5. The operation shall be in accordance with Sections 2310.4.1 and 2310.4.2.					
51-54A-5707	General	5707.1	5707.1	Repeal Amendment	Same as Model Code language
5707.1 General. On-demand *mobile fueling* operations that dispense Class I, II and III liquids into the fuel tanks of motor vehicles shall comply with Sections 5707.1 through 5707.6.6. **Exception:** Fueling from an *approved* portable container in cases of an emergency or for personal use. **Model language is the same as amendment**					
51-54A-5707	Approval required	5707.1.1	5707.1.1	Keep Existing Amendment as Modified	State amendment revises section Use model code

5707.1.1 Approval required. Mobile fueling operations shall not be conducted without first obtaining a permit and approval from the fire code official. Mobile fueling operations shall occur only at approved locations. The fire code official is authorized to approve individual locations or geographic areas where mobile fueling is allowed.

5707.1.1 Approval required. *Mobile fueling* operations shall not be conducted without first obtaining an operational permit in accordance with Section 105.5.18.

51-54A-5707	Locations. Coordination of permits.	5707.1.2	5707.1.2	Keep Exissting Amendment	Renumber to 1.3 Will need to renumber section to maintain amendment.

5707.1.2~~2~~3 Coordination of permits. Permits across multiple authorities having jurisdiction shall be coordinated in accordance with Sections 5707.1.2.1 through 5707.1.2.4.

51-54A-5707	Acceptance of permits issued by other authorities having jurisdiction	5707.1.2.1	5707.1.2.1	Keep Existing Amendment	Renumber to 1.3.1

5707.1.2~~2~~3.1 Acceptance of permits issued by other authorities having jurisdiction. Local authorities having jurisdiction that allow mobile on demand fueling trucks may accept conforming permits issued and/or inspections performed by any other local authorities having jurisdiction in Washington state. Local authorities having jurisdiction that choose to accept conforming permits issued by other local authorities having jurisdiction in Washington state retain the right to enforce the provisions of this section.

51-54A-5707	Local authorities having jurisdiction not offering operator or truck certification	5707.1.2.2	5707.1.2.2	Keep Existing Amendment	Renumber to 1.3.2

5707.1.2~~2~~3.2 Local authorities having jurisdiction not offering operator or truck certification. A conforming operator or vehicle permit issued by one local authority having jurisdiction shall be recognized and accepted by all local authorities having jurisdiction in Washington state, if those local authority having jurisdictions allow mobile on demand fueling and do not offer such operator or truck certification. Under no circumstances will an issuing local authority having jurisdiction be expected to perform permissive inspections beyond their jurisdiction.

51-54A-5707	Commencing permit issuance	5707.1.2.3	5707.1.2.3	Keep Existing Amendment	Renumber to 1.3.3

5707.1.2~~2~~3.3 Commencing permit issuance. When a local authority having jurisdiction that has previously authorized mobile fueling operations but not issued their own permits commences permit issuance for mobile fueling operations or vehicles, that local authority having jurisdiction shall continue to accept permits previously issued by another local authority having jurisdiction in Washington state for three months or until their expiration date, whichever is sooner.

51-54A-5707	Mobile Fueling Vehicle	5707.2	5707.2	Repeal existing state amendment	

5707.2 Mobile fueling vehicle. An on-demand mobile fueling vehicle shall be utilized in on-demand fueling operations for the dispensing of Class I, II or III liquids into the fuel tanks of motor vehicles and shall comply with Sections 5707.2.1 and 5707.2.2.

5707.2 Mobile fueling vehicle. An on-demand *mobile fueling* vehicle shall be that which is utilized in on-demand fueling operations for the dispensing of Class I, II or III liquids into the fuel tanks of motor vehicles.

51-54A-5707	Permit record maintenance	5707.1.2.4	5707.1.2.4	Keep Existing Amendment	Renumber to 1.3.4

5707.1.~~2~~3.4 Permit record maintenance. Issuing local authorities having jurisdiction shall maintain a publicly available list of current permits or other information source to enable all parties to have information about whether permits are in good standing.

51-54A-5707	Mobile fueling vehicle classifications	5707.2.1	5707.2.1	Repeal existing state amendments:	Change to model code terminology - tiers. (Review if we can change to Tier instead of Type.)

5707.2.1 Mobile fueling vehicle classifications. An on-demand *mobile fueling* vehicle shall be characterized as one of the following:

1. **Tier 1 *mobile fueling* vehicle.** A tank vehicle that complies with NFPA 385 and that has chassis-mounted tanks where the aggregate capacity does not exceed 1,600 gallons (6057 L).
2. **Tier 2 *mobile fueling* vehicle.** A vehicle with one or more chassis-mounted tanks or containers that do not exceed 110 gallons (416 L) in capacity with an aggregate capacity that does not exceed 800 gallons (3028 L) or the weight capacity of the vehicle in accordance with DOTn.
3. **Tier 3 *mobile fueling* vehicle.** A vehicle that carries a maximum aggregate capacity of 60 gallons (227 L) of motor fuel in metal safety cans *listed* in accordance with UL 30 or other *approved* metal containers, each not to exceed 5 gallons (19 L) in capacity.

51-54A-5707	Mobile fueling vehicle requirements	5707.2.2	5707.2.2	Repeal Existing Amendment	Do not need amendment, language in IFC

5707.2.2 Mobile fueling vehicle requirements. Each *mobile fueling* vehicle shall comply with all local, state and federal requirements, as well as the following:

1. *Mobile fueling* vehicles with a chassis-mounted tank in excess of 110 gallons (416 L) shall also comply with the requirements of Section 5706.6 and NFPA 385.
2. The *mobile fueling* vehicle and its equipment shall be maintained in good repair.
3. Safety cans and *approved* metal containers shall be secured to the *mobile fueling* vehicle except when in use.
4. Fueling a motor vehicle from tanks or containers mounted in a trailer connected to a *mobile fueling* vehicle shall be prohibited.

51-54A-5707	Required documents	5707.3	5707.3	Repeal Existing Amendment	Do not need amendment, language in IFC
5707.3 Required documents. Documents developed to comply with Sections 5707.3.1 through 5707.3.3 shall be updated as necessary by the *owner* of the *mobile fueling* operation and shall be maintained in compliance with Section 110.3.					
51-54A-5707	Safety and emergency response plan	5707.3.1	5707.3.1	Repeal Existing Amendment	Do not need amendment, language in IFC
5707.3.1 Safety and emergency response plan. *Mobile fueling* operators shall have an *approved* written safety and emergency response plan that establishes policies and procedures for fire safety, spill prevention and control, personnel training and compliance with other applicable requirements of this code.					
51-54A-5707	Training records	5707.3.2	5707.3.2	Repeal Existing Amendment	Do not need amendment, language in IFC
5707.3.2 Training records. *Mobile fueling* vehicles shall be operated only by designated personnel who are trained on proper fueling procedures and the safety and emergency response plan. Training records of operators shall be maintained.					
51-54A-5707	Site plan	5707.3.3	5707.3.3	Repeal Existing Amendment	Do not need amendment, language in IFC
5707.3.3 Site plan. Where required by the *fire code official*, a site plan shall be developed for each location or area at which *mobile fueling* occurs. The site plan shall be in sufficient detail to indicate the following: 1. All buildings and structures. 2. *Lot lines* or property lines. 3. Electric car chargers. 4. Solar photovoltaic parking lot canopies. 5. Appurtenances on-site and their use or function. 6. All uses adjacent to the *lot lines* of the site. 7. Fueling locations. 8. Locations of all storm drain openings and adjacent waterways or wetlands. 9. Information regarding slope, natural drainage, curbing and impounding. 10. How a spill will be kept on the site property. 11. Scale of the site plan.					
51-54A-5707	Tiered sites	5707.3.4	5707.3.4	Keep Existing Amendment	
5707.3.4 Tiered sites. Where a site permitting process is required by the local jurisdiction, a site shall be designated by the fire code official to be one of the following and based on local provisions as necessitated by zoning laws, environmental laws, public safety, and other characteristics.					
51-54A-5707	Tier 1 sites	5707.3.4.1	5707.3.4.1	Keep Existing Amendment	
5707.3.4.1 Tier 1 sites. Sites that do not present atypical geographic, safety or environmental concerns shall be provided expedited permitting review and shall allow permit issuance prior to site inspection. The fire code official may impose additional conditions and may perform a site inspection during the period of permit validity.					

51-54A-5707	Tier 2 sites	5707.3.4.2	5707.3.4.2	Keep Existing Amendment	

5707.3.4.2 Tier 2 sites. Sites that require an inspection shall be approved by the fire code official prior to permit issuance.

51-54A-5707	Mobile fueling areas	5707.4	5707.4	Repeal Existing Amendment	Do not need amendment, language in model IFC

5707.4 Mobile fueling areas. During fueling, the *mobile fueling* vehicle and point of connection to the vehicle shall not be located on public streets, *public ways* or inside *buildings*. Fueling on the roof level of parking structures or other *buildings* is prohibited.

51-54A-5707		5707.4.1 through 5707.6.4	5707.4.1 through 5707.6.4	Repeal Existing Amendment	Do not need amendment, language in model IFC

5707.4.1 Separation. During fueling, the point of connection to the vehicle being fueled shall not take place within 25 feet (7620 mm) of buildings, *lot lines*, property lines or combustible storage. *Mobile fueling* vehicles shall not park within 10 feet (3048 mm) of buildings, *lot lines*, property lines or combustible storage.

Exceptions:

1. The *fire code official* shall be authorized to decrease the separation distance for dispensing from metal safety cans or other *approved* metal containers in accordance with Section 5707.2.
2. The point of fueling shall not take place within 10 feet (3048 mm) of buildings, *lot lines*, property lines or combustible storage where the *mobile fueling* vehicle has an *approved* vapor recovery system or is servicing vehicles with onboard refueling vapor recovery.

Where dispensing operations occur within 15 feet (4572 mm) of a storm drain, an *approved* storm drain cover or an *approved* equivalent method that will prevent any fuel from reaching the drain shall be used.

5707.4.2 Sources of ignition. Smoking, open flames and other sources of ignition shall be prohibited within 25 feet (7620 mm) of fuel dispensing activities. Signs prohibiting smoking or open flames within 25 feet (7620 mm) of the vehicle or the point of fueling shall be prominently posted on the *mobile fueling* vehicle. The engines of vehicles being fueled shall be shut off during fueling.

5707.4.3 Electrical equipment. *Mobile fueling* shall not occur within 20 feet (6096 mm) of electrical equipment located within 18 inches (457 mm) of the ground unless such electrical equipment is rated for Class I, Division 2, hazardous locations in accordance with NFPA 70.

5707.5 Equipment. *Mobile fueling* equipment shall comply with Sections 5707.5.1 through 5707.5.5.

5707.5.1 Dispensing hoses and nozzles. Where equipped, the dispensing hose shall not exceed 50 feet (15 240 mm) in length. The dispensing nozzles and hoses shall be of an *approved* and *listed* type. Where metal-to-metal contact cannot be made between the nozzle and the fuel fill opening, a means for bonding the *mobile fueling* vehicle to the motor vehicle shall be provided and employed during fueling operations.

5707.5.2 Breakaway device. A *listed* breakaway device shall be provided at the nozzle.

Exception: *Mobile fueling* vehicles equipped with an *approved* brake interlock tied to the nozzle holder that prohibits movement of the *mobile fueling* vehicle when the nozzle is removed from its holder or tied to the delivery of fuel that prevents activation of the pumping system.

5707.5.3 Shutoff valve and fuel limit. *Mobile fueling* vehicles shall be equipped with a *listed* shutoff valve assembly and a fuel limit switch set to a maximum of 30 gallons (116 L).

5707.5.4 Fire extinguisher. An *approved* portable fire extinguisher complying with Section 906 with a minimum rating of4-A:80-B:C shall be provided on the *mobile fueling* vehicle with signage clearly indicating its location.

5707.5.5 Spill kit. *Mobile fueling* vehicles shall contain a minimum 5-gallon (19 L) spill kit of an *approved* type.

5707.6 Operations. *Mobile fueling* vehicles shall be constantly attended during fueling operations with brakes set and warning lights in operation. *Mobile fueling* vehicles shall not obstruct emergency vehicle access roads.

5707.6.1 Dispensing hose. Where equipped, *mobile fueling* vehicles shall be positioned in a manner to preclude traffic from driving over the dispensing hose. The dispensing hose shall be properly placed on an *approved* reel or in an *approved* compartment prior to moving the *mobile fueling* vehicle.

5707.6.2 Drip control. Operators shall place a drip pan or an absorbent pillow under the nozzle and each fuel fill opening prior to and during dispensing operations to catch drips.

5707.6.3 Safety cones. Safety cones or other visual barriers shall be employed as warning devices to highlight the vehicle fueling area.

5707.6.4 Vehicle lights. The *mobile fueling* vehicle flasher lights shall be in operation while dispensing operations are in progress.

51-54A-5707	Nighttime deliveries	5707.6.5	5707.6.5	Keep Existing Amendment	

5707.6.4 Vehicle lights. The *mobile fueling* vehicle flasher lights shall be in operation while dispensing operations are in progress.

51-54A-5707	Spill reporting	5707.6.6	5707.6.6	Repeal Existing Amendment	Do not need amendment, language in model IFC

5707.6.6 Spill reporting. Spills shall be reported in accordance with Section 5003.3.1.

5707.6.6 Spill reporting. Spills shall be reported in accordance with Section 5003.3.1.

58 Flammable and Combustible Liquids
No Amendments

59 Flammable Solids
No Amendments

60 Highly Toxic and Toxic Materials
No Amendments

61 Liquefied Petroleum Gases
No Amendments

62 Organic Peroxides
No Amendments

63 Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids
No Amendments

64 Pyrophoric Materials
No Amendments
65 Pryoxylin (Cellulose Nitrate) Plastics
No Amendments
66 Unstable (Reactive) Materials
No Amendments
67 Water-Reactive Solids and Liquids
No Amendments
68 Reserved
69 Reserved
70 Reserved
71 Reserved
72 Reserved
73 Reserved
74 Reserved
75 Reserved
76 Reserved
77 Reserved
78 Reserved
79 Reserved
80 Referenced Standards

51-54A-8000	**NFPA 13**	CH 80	CH 80	**Keep Exisiting Amendment**	
NFPA 13-19: Standard for the Installation of Sprinkler Systems (except 9.3.6.3(5)) . . . .903.3.1.1, 903.3.2, 903.3.8.2, 903.3.8.5, 904.13, 905.3.4, 907.6.4, 914.3.2, 1019.3, 1103.4.8, 3201.1, 3204.2, 3205.5, Table 3206.2, 3206.4.1, 3206.10, 3207.2, 3207.2.1, 3208.2.2, 3208.2.2.1, 3208.4, 3210.1, 3401.1, 5104.1, 5104.1.1, 5106.5.7, 5704.3.3.9, Table 5704.3.6.3(7), 5704.3.7.5.1, 5704.3.8.4					
51-54A-8000	NFPA 33	CH 80	CH 80	Update to 2024 Edition	
NFPA 33-18 Membrane Enclosures 2404.3.5					
51-54A-8000	NFPA 96	CH 80	CH 80	Update to 2024 Edition	
NFPA 96-21 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations 606.2, 606.3, 904.13					
51-54A-8000	NFPA 130	CH 80	CH 80	Update to 2023 Edition	
NFPA 130-20 Standard for Fixed Guideway Transit and Passenger Rail Systems 4901.1					
51-54A-8000	NFPA 855	CH 80	CH 80	Update to 2023 Edition	
NFPA 855-23 Standard for the Installation of Stationary Energy Storage Systems 1201.1					
51-54A-8000	UL 142A	CH 80	CH 80	**Keep Exisiting Amendment**	
UL 142A-2018: Special Purpose Above ground Tanks for Specific Flammable or Combustible Liquids 605.4					
51-54A-8000	UL 2272	CH 80	CH 80	**Keep Exisiting Amendment**	Double Check Refeference section
UL 2272-2016: Electrical Systems for Personal E-Mobility Devices 323.2					
51-54A-8000	UL 2849	CH 80	CH 80	**Keep Exisiting Amendment**	Double Check Refeference section
UL 2849-2020: Electrical Systems for eBikes 323.2					