## Washington State Building Code Council • Code Change Cycle 2021 Group 1 2021 International Fire Code Significant Change Review Worksheet

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation				
	Chapter '	Chapter 1								
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	Chapter 2									
	Chapter 3	<b>3</b>			ı	T				
	Chapter 4	4			1	T				
403.3	403.4	Group B Occupancies	Moved B occupancies to 3.3. Ambulatory care facilities moved to 403.3.1	Ν	N					
403.3.1.1	403.3.1	Fire Safety and Evacuation Plans	Moved to new number and title changes. Changed patients to care recipients.	N	N					
403.3.1.1 .1	403.3.2	Fire Safety Plan	Moved to new number. Changed patients to care recipients. Changed "plan" to "fire safety plan".	N	N					
403.3.1.2	403.3.3	Staff Training	Moved to new number. Changed instruction review to 3 months from 2, added prompt training for new employees, and added a fire extinguisher training.	N	N					
403.4	403.5	Group E Occupancies	Number Change	N	N					
403.5	403.6	Group F Occupancies	Number Change							
403.6	403.7	Group I Occupancies	Number Change							

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403.7.1.1	403.8.1. 1	Fire Safety and Evacuation Plan	Renumbered and revised format and broke out requirements. Added amendment for care recipients with special needs.	N	N	
403.7.1.1 .1	403.8.1. 1.2	Fire Safety Plan	Revised number, revised reference to 404.2.2, and changed patient to care recipient	N	N	
403.7.1.2	403.8.1.	Staff Training	Changed number and title. Changed instruction review to 3 months from 2, and added fire extinguisher training.	N	N	
403.7.1.3	403.8.1. 3	Resident Training	Simplified language	N	N	
403.7.1.4	403.8.1. 4	Drill Frequency	Changed reference to 405.3 and removed language regarding Section 405.4.	N	N	
	403.8.1. 5, 8.1.6, 8.1.7	Drill Times Resident participation in drills Emergency evacuation drill deferral	Sections removed	N	N	
403.7.2.1	403.8.2. 1	Fire safety and evacuation plans	Changed title. Also changed patients to care recipients and added requirements for Group I-02, Group 2 care recipient unusual needs.	N	N	
403.7.2.2	403.8.2. 2	Fire safety plans	Changed title. Changed patient to care recipient and moved parts to 403.7.2.1	N	N	
403.7.2.3		Staff training	Added new section with 3 month interval and fire extinguisher training.	N	N	
403.7.2.4	403.8.2. 4	Emergency evacuation drills	Removed exceptions	N	N	
403.7.2.5		Fire loss prevention in operating rooms	Added new section requiring compliance with NFPA 99, Section 16.13	N	N	

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403.7.3	403.8.3	Group I-3 occupancies	Section was revised to other I occupancy sections. Changed "staffing" to "a staff person". Changed "employee" to "staff".	N	N	
403.9.2.3	403.10.2 .3	Evacuation diagrams for dormitories	Changed language to sleeping unit or dwelling unit	N	N	
403.10.1 2.2.3.7		Lease Plan		N	N	
404.3		Maintenance		N	N	
404.4		Availability		N	N	
404.4.1		Distribution		N	N	
405.1		General		N	N	
405.2		Occupant participation		Y	N	Possible impact
Table 405.3		Fire and Evacuation Drill Frequency and Partcipation		Y	N	Potential impact
405.5		Time		Y	N	Possible impact

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405.9 Exception		Accountability		N	N	
	Chapter !	5 Ken B.				
501.3.1	None	Site Safety Plans	This new section needs the reference amended from 3308 to 3303. This might be done on the second printing if caught by ICC. This code change is part of F264-18. The section is added to require a site safety plan and place responsibility on the owner. The code change proposal will increase the cost of construction. It is likely that this code change will have a minimal, but increased cost impact. Many construction sites already comply with these provisions; for those that don't, the cost of added security and development of a site safety plan will be additional costs. (FCAC)	Y	Y	
504.3	504.3	Stairway access to roof.	Terms have changed from roof gardens to now landscaped roofs.	N	N	
508.1	508.1	Fire Command Center	New requirement for Group F-1 and S-1 Occupancies to be provided with a Fire Command Center when the footprint of the building is greater than 500,000 square feet. F42- 18	Y		
508.1.3	508.1.3	Size of Fire Command Center	Fire Command Centers for Group F-1 and S-1 Buildings shall be a minimum of 96 square feet and a minimum dimension of 8 feet. F42-18	Υ		
508.1.7	None	Fire Command Center identification.	New requirement for a sign on the FCC door to indicate "FIRE COMMAND CENTER". F42-18	N	N	

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510.1	510.1	Emergency responder communication coverage in new buildings	Editorial in nature. Section 510 uses several different terms to describe the communication system required. The code change provides consistency with by replacing various terms with "emergency responder communication coverage"	N	N	
510.4	510.4	Equipment required shall now be listed in accordance with UL 2524 Standard.	This change adds a requirement for all equipment to be listed to a UL standard. This was proposed in WA for the 2018 code but was removed because industry was not ready because they had existing inventory that needed to be used. Newer equipment should now be listed per this UL Standard. FYI, the published WA Fire Code still shows this standard as a requirement, but the insert pages do not.	N	N	
510.4.1	510.4.1	Emergency responder communication coverage system signal strength	This change adds coverage of 99 percent in areas designated as critical areas. This definition was also added into the 2021 IFC:  CRITICAL AREAS. Areas that are designated for the highest level of emergency responder radio coverage including but not limited to areas such as exit stairs, exit passageways, elevator lobbies, fire protection equipment room and control valve locations, and fire command centers.	N	N	

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510.5.1	None	Mounting of donor antenna(s)	WA State Fire Code already brought this language into the 2018. But we will want to amend it with our current language.	N	Y	
	Chapter	6		Г	T	
603	604	Electrical Equipment, Wiring and Hazards	Moved section to 603 but also added additional subsections and wording for clarity regarding Healthcare facilities. No mention of photovoltaic units still in the 2021 so we should maintain our State amendments.	N	N	
606	607.2	Commercial Cooking Equipment and Systems	Changed the title of this section and moved the section. We should continue using our State Amendment to Table 606.3.3.1. for clarity.	N	N	
610	-	Clothes Dryer Exhaust Systems	2021 Added this as a completely new section for clarity to reference the IMC.	N	N	
	Chapter 7	7				
	Chapter 8	8				
	Chapter 9	9				
901.1	901.1	Scope	Added the wording 'and Life Safety Systems'	N	N	
901.2	902.2	Fire Protection Systems	Added the wording 'and Life Safety Systems'	N	N	
901.4	901.4	Fire protection and life safety systems	Added the wording 'and Life Safety Systems'	N	N	
901.4.3	New	Alterations in buildings and structures	Relocated and some new wording, was previously in Section 901.4.	N	N	

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901.4.5	901.4.4	Additional fire protection systems	Added the wording 'and Life Safety Systems'	N	N	
901.5	901.5	Installation acceptance testing	Added the wording 'and Life Safety Systems'	N	N	
901.6	901.6	Inspection, testing and maintenance	Added the wording 'and Life Safety Systems', also added a reference to Section 901.8.	N	N	
901.7	901.7	Systems out of service	New exception for facilities that have an approved impairment management program.	N	N	
901.8	901.8	Removal of or tampering with equipment	Added the wording 'and Life Safety Systems'	N	N	
902	902	Definitions	Reference to new definition of 'Life Safety Systems'			
903.2.4.2	New	Group F-1 distilled spirits	Sprinklers now required for distilled spirits manufacturing	Y	N	
903.2.4.3	903.2.4 Item 4	Group F-1 upholstered furniture or mattresses	Relocated and clarified that the threshold is a <u>fire area</u> of 2,500 square feet	N	N	
903.2.7.2	903.2.7 Item 4	Group M upholstered furniture or mattresses	Relocated and clarified that the threshold is a <u>fire area</u> of 5,000 square feet	N	N	
903.2.9.3	New	Group S-1 distilled spirits or wine	Sprinklers now required for bulk storage of distilled spirits or wine; no square footage established. No definition of 'bulk storage' established.	Y	Y	My opinion that this is poorly written and needs clarification. Why is wine added to this section and not 903.2.4.2?
904.2.9.4	903.2.9.3	Group S-1 upholstered furniture or mattresses	This was our Washington State Amendment that is now in the code. Clarifies the 2,500 square feet as a <u>fire area.</u>	N	N	
903.2.10	903.2.10 Item 1	Group S-2 parking garages	Added a reference to Section 406.6 (requirements for enclosed parking garages)	N	N	
903.2.10	903.2.10 Item 2	Group S-2 parking garages	Added a reference to Section 406.6 (requirements for enclosed parking garages)	N	N	

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903.2.10 Item 3	New	Group S-2 parking garages	Open parking garages exceeding 48,000 square feet now requires sprinklers.	Y	N	
903.2.10.2	New	Mechanical access parking garages	Requires sprinklers for this relatively new type of occupancy/hazard.	Y	N	
903.2.11.6	903.2.11. 6	Other required fire protection systems	Change of wording from 'suppression' to 'fire protection'	N	N	
Table 903.2.11.6	Table 903.2.11.	Additional required fire protection systems	Change of wording from 'suppression' to 'fire protection'	N	N	
Table 903.2.11.6	Table 903.2.11.	Additional required fire protection systems	Added references for Mechanical access enclosed parking garages, Stationary and mobile energy storage systems and Record storage over 12 feet.	N	N	
903.3.1.2	903.3.1.2	NFPA 13R fire sprinkler systems	Now limits 13R systems to 30 feet floor level, limit was 60 feet floor level previously.	Y	N	
903.3.1.2.	903.3.1.2	Corridors and balconies in the means of egress	Clarifies when corridors and egress balconies are required to be sprinklered in NFPA 13R structures.	N	N	
903.3.1.2.	903.3.1.2	Attics	Added a reference to fire department access requirements in Section 503.	N	N	
903.3.2	903.3.2	Quick response and residential sprinklers	Added a sprinkler requirement for Group I-2 (hospitals, nursing homes, etc) for smoke compartments that contain gas burning fire places or gas appliances.	N	N	They will have this type of sprinkler head most of the time anyway.
903.4	903.4.1	Sprinkler system supervision and alarms	Relocated requirement only.	N	N	
904.12	904.14	Aerosol fire extinguishing systems	Relocated requirement only.	N	N	
904.14	904.13	Domestic cooking facilities	Name change from 'Domestic cooking systems'	N	N	
905.3	905.3	Required installations	Revised requirements for standpipes in parking garages	N	N	

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905.3.8	905.3.8	Landscaped roofs	Name change from 'Rooftop gardens and landscaped roofs'	N	N	
906	906	Portable fire extinguishers	Added an Exception 3, no fire extinguishers required in Group S and Group U if the forklifts/tractors have fire extinguishers on them.	N	N	
Table 906.1	Table 906.1	Additional required portable fire extinguishers	Added a new reference to Section 1204.10 for portable generators.	N	N	
907.2.2	907.2.2	Group B	Added 'which activates the occupant notification system in accordance with Section 907.5'	N	N	
907.2.3	907.2.3	Group E	Changed 'is not' to 'shall not' and added Item 3.4 option for 'Manual activation is provided from a normally occupied location'.	N	N	
907.2.10	New	Group S	Now requires a manual fire alarm system for public storage buildings 3 story or higher if not fire sprinklered.	Y	N	Small impact as most of these will be sprinklered.
907.2.13.2	907.2.12.	Fire department communication	Added option for 'in building 2-way communication system' instead of 'emergency responder radio system' only.	N	N	
907.2.23	907.2.23	Energy storage systems	Added option for 'radiant energy detection systems'.	N	N	
907.4	907.4	Initiating devices	Mostly a relocation of items from 907.5	N	N	
907.4.2.4	907.4.2.4	Signs	Clarification by adding the word 'approved' supervisory station.	N	N	
907.5	907.5	Occupant notification	Mostly a reorganization of the section.	N	N	
907.5.2.1.	907.5.2.1	Maximum sound pressure	Changes the minimum pressure of '95' to '105'.	N	N	
907.5.2.1.	New	Audible signal frequency in Group R-1 and R-2 sleeping rooms.	Adds the low frequency requirements to the code, instead of just having them in NFPA 72.	N	N	
907.5.2.2. 5	907.5.2.2 .5	Standby power	Changed the requirement from 'Emergency power' to 'Standby power'	N	N	

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907.5.2.3	907.5.2.3	Visible alarms	Added a design alternative for Group I-2, condition 2 for a strobe only located at the nursing station.	N	N	
907.5.2.3. 3	907.5.2.3 .3	Group R-2	Added the word 'future'	N	N	
907.5.2.3. 3.1	New	Wired equipment	Clarifies 'future' wiring requirements.	N	N	
907.6.4.2	907.6.4.2	High rise buildings	Changed 'fire detection or suppression systems' to 'fire protection systems'.	N	N	
907.6.6.1, 907.6.6.2	907.6.6.1	Transmission of alarm signals	Monitoring it yourself is not permitted unless approved.	N	N	
	907.6.6.2					
908.3	New	Fire alarm system interface	Clarifies emergency alarm system signals shall be only supervisory alarms on the fire alarm panel.	N	N	
909.17	909.17	System response time	Added a 90 second time limit for smoke control units to achieve proper operating state.	N	N	
909.20	909.20	Smokeproof enclosures	Added 'pressurized stairway or entrance vestibules' as a new design option.	N	N	
909.20.6	New	Smokeproof enclosures	Added 'pressurized stairway or entrance vestibules' as a new design option.	N	N	
910.3.4	New	Ventilation operation	Added a new alternate method.	N	N	
910.3.5	New	Fusible link temperature rating	Clarifies fusible link temperature requirements.	N	N	
911.1	911.1	Explosion control	Added a reference to NFPA 68.	N	N	
Table 911.1	Table 911.1	Explosion control requirements	Added some new uses and revised some footnotes	N	N	
911.4	New	Deflagration venting	New requirements and references to NFPA 68.	N	N	
913.1	913.1	Fire pumps	Clarifies fire pump requirements.	N	N	
913.2.2	913.2.2	Circuits supplying fire pumps	New 4 <sup>th</sup> option here.	N	N	

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914.3.1.2	914.3.1.2	Water supply to required fire pumps	Added requirements for construction Types IVA and IVB.	N	N	
914.3.6	914.3.6	Emergency responder communication coverage	Editorial changes.	N	N	
914.7	914.7	Special amusement areas	Editorial changes.	N	N	
	Chapter '	10				
1003.5 Exception	1003.5 Exceptio n 1	Elevation change	Consolidation of requirements into 1010.1.4	N	N	
1006.2.2	1006.2.2	Egress based on use	Added language to capture all means of egress components	N	N	
1006.2.2.2	1006.2.2. 2	Refrigeration machinery rooms	Panic hardware required	N	N	
1006.3.1	New	Occupant load (occupied roofs)	Clarifies that a roof occupancy and story below are looked at separately when determining the number of exits – you treat the roof occupancy like a story	N	N	
1008.2.1	1008.2.1	Means of egress illumination under normal power	Adds requirement for 10 footcandles at the floor in exit and exit access stairways when they are in use	Y	N	
1009.2.1	1009.2.1	Elevators required	Model code adopts state language about elevators and occupied roofs.	N	N	
1009.6.3	1009.6.3	Area of refuge size	Increases from 30x48 to 30x52	Y	N	
1009.8.1	1009.8.1	Two-way communication system requirements	Adds 'approved supervising station'	N	N	
1010.1.3	1010.1.3	Forces to unlatch and open doors	New language adding requirements to forces needed to unlatch doors by rotating hardware (ie lever)	N	N	

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1010.1.3.2	New	Manual horizontal sliding doors	Sliding doors required to latch have to have mechanism to prevent rebounding when door is closed	N	Z	
1010.2	1010.1.9. 6	Door unlatching	'one operation' replaced with 'one motion in a single linear or rotational direction'	N	N	
1010.2.4	1010.1.9. 4	Locks and latches	New exceptions for decks and patios	N	N	
1010.2.8	1010.1.4. 4	Locking arrangements in educational occupancies	Adds reference to NFPA 80 for door modifications	N	N	
1010.2.9.1	1006.2.2.2	Refrigeration machinery rooms	Requires panic hardware for 1000 SF or larger refrigeration rooms	N	N	
1010.2.9.2	1010.1.1 0	Rooms with electrical equipment	Requires panic hardware when 800 amps or more	N	N	
1011.6	1011.6	Stairway landings	Adds exceptions for curved stairways	N	N	
1011.11	1011.11	Handrails	Adds exception for handrails when a platform lift serves not more than 2 risers	N	N	
1015.2	1015.2	Guards	Adds exception for rail platforms	N	N	
1017.3	1017.3	Exit access measurement	Clarifies that when two or more exits are provided measurement is taken to nearest exit	N	N	
1017.3.2	New	Exit access – Atriums	New section clarifying how to deal with exit access and atriums	N	N	
1020.1	1020.1	Corridors – general	Clarifies that only corridors serving as part of a means of egress need to comply	N	N	
1020.4	1020.4	Dead ends	New exception for I2 in areas not including patient rooms – accommodates state amendment	N	N	
1023.2	1023.2	Interior Exit Stairway – construction	New exception for stairways in accordance with 510.2 – accommodates state amendment	N	N	

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1023.5	1023.5	Interior Exit Stairway – penetrations	New exception for structural elements supporting the stair/stair shaft – accommodates state amendment	N	N	
1023.8	1023.8	Barrier at level of exit discharge	Title change so that you can actually find it	N	N	
1023.11	1023.9	Tactile floor-level signs	Accessible signage is pulled out of 1023.9 and put in its own section	N	N	
1024.8	NEW	Exit passageway exterior walls	Section clarifying how to treat exterior walls on exit passageways – accommodates state amendment	N	N	
1028/1029	1028	Exit discharge/egress courts	Exit discharge and egress courts separated into two sections no new requirements	N	N	
1030.6.3.1	NEW	Automatic sprinklers – open-air assembly seating	Section clarifies requirements for sprinklers where otherwise open assembly spaces are enclosed	N	N	
1030.13.2. 1	1029.13. 2.1	Assembly aisle accessways	Table revised to clarify ranges	N	N	
1030.16	1029.16	Handrails – assembly	Section brings in handrail requirements from 1014 instead of just referencing them	N	N	
1031	1030	Emergency escape and rescue openings	Section is reorganized for better flow	N	N	
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1103.2	1103.2	Emergency Res Radio Coverage in existing		N	N	
n/a	1103.5.4	Sprinkler system in high rise buildings		Y	?	

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1103.7.5 .1	1103.7.5.1	R1 hotel motel manual fire alarm		N	N	
1103.9	1103.9	CO detection		N	N	
T114.18	T1104.18	Common path, dead end, and travel distance	Clarifies requirement for sprinkler system type	?	N	
	1105.5.4.2 .2			N	N	
	1105.5.4.2 .5			N	N	
	1105.6.1			N	N	
	Chapter	12				
1205.2	1204.2	Access and Pathways	2021 Added an additional exemption for integrated photovoltaic systems to protect firefighters.  This wording is repeated in section 1205.2.3 where it is even more clear. Might be redundant wording so possibly remove it from 1205.2 and keep it in 1205.2.3.	N	Y	

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1205.2.1	1204.2.1	Solar Photovoltaic Systems for Group R-3 Buildings	The exception in our State Amendment identifies that (#3) "Where the Fire Code Official determines that the slope of the roof is too steep for emergency access. Typically the reviewer is a residential reviewer under a building permit and	Y	Y	
			without either the expertise or being in the field to really see the sloping hazard. Once the permit is issued and the owner/contractor installs the panel, it may be too late to enforce this requirement if the Fire Code Official on site says they would need to move it for access. Why not keep the model code where it specifically identifies a slope so that a determination can be made immediately during plan review and avoid any costly misunderstanding in the field?			
1205.5	1204.4	Ground-Mounted Photovoltaic Panel System	The 2021 model code added a language to identify the type of base where the ground-mounted photovoltaic panel shall be installed on. This will alleviate any confusion as to what type of base to use for contractors and builders. This is not included in our state amendment and may be worth considering to and maybe add a language that states "Or as required by the manufacturer".	Y	Y	
1205.2.3	-	Building-Integrated photovoltaic (BIPV) systems.	This is a new section in the 2021 code. The IFC does not mention the installation or requirement standards for BIPV systems whereas the IBC has a new section that references it in chapter 15. We should amend this section to include a reference to the IBC chapter 15 (1505.8).	N	Y	

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	Chapter 3	31							
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	Chapter	33							
3303.0	3303.0	Owners Responsibility For Fire Protection		Y	N				
3304.0	3305.0	Precautions Against Fire		Y	N				
3309.0	3309.0	Portable Generators		N	N				
3312.0	3313.0	Water Supply for Fire Protection		Y	N				
	Chapter 34								
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5707.1.1	5707.1.1	ON-DEMAND MOBILE FUELING OPERATIONS	Language was added to allow the Fire Code Official to approve individual locations or geographic areas where mobile fueling may occur. Coordination will be necessary with proposed WA State amendments.	N	Y	
5707.2.1	None	Mobile fueling vehicle classifications	Three Tiers of vehicles have been added. Coordination will be necessary with proposed WA State amendments.	N	Y	
5707.2.2	None	Mobile fueling requirements	Coordination will be necessary with proposed WA State amendments.	N	Y	

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5707.4	5707.4	Mobile fueling areas	Clarification that the mobile fueling vehicle, the point of connection to the vehicle being fueled shall not be located on public streets, public ways or inside of buildings.	N	N	
5707.4.1	5707.4.1	Separation	Clarification that the point of connection to the vehicle being fueled shall not be located within 25 feet of buildings, lot lines, property lines and combustible materials. Mobile Fueling vehicles shall not be parked within 10 feet of the same. An exception to the 25 feet can be made if the mobile fueling vehicle has an approved vapor recovery system or is fueling a vehicle with onboard refueling vapor recovery.	N	N	
5707.4.3	None	Electrical equipment	New requirement that mobile fueling shall not occur within 20 feet of electrical equipment within 18 inches of ground unless equipment is rated for Class I, Division 2.	N	N	
5707.5.1	5707.5.1	Dispensing hoses and nozzles	A new bonding requirement between mobile fueling vehicle and vehicle being fueled is required unless metal to metal contact is made between the nozzle and fuel fill opening.	N	N	
5707.5.2	None	Breakaway device.	A listed breakaway device is required at the nozzle unless the mobile fueling vehicle has an approved brake interlock tied to the nozzle.	N	N	
5707.5.4	5707.5.3	Fire extinguisher	The fire extinguisher requirements have been upgraded to a 4A:80BC from a 40 BC	N	N	
5707.6.3		Safety Cones	Safety cones or other warning devices are required for the vehicle fueling area	N	N	
5707.6.4		Vehicle lights	The mobile fueling vehicle flasher lights are required to be in operation during dispensing operations.	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
5707.6.5		Nighttime deliveries	Areas shall be lit during mobile fueling operations at night. Coordination will be necessary with proposed WA State amendments.	N	Y	
	Chapter &	59				
	Chapter 6	60				
	Chapter 6	61				
	Chapter 6	6 <b>2</b>				
	Chapter 6	63				
	Chapter 6	64				
	Chapter 6	65				
	Chapter 6	66 				
	Chapter 6	 67				
	Chapter 8	30				
	Chapter					

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Costs (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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