



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

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2018 UNIFORM PLUMBING CODE TECHNICAL ADVISORY MEETING MINUTES

LOCATION: Tukwila Labor and Industries Office
12806 Gateway Dr. S
Tukwila, WA 98168

DRAFT

MEETING DATE: Friday December 21, 2018

Members in Attendance: Steve Simpson, Dave Cantrell, Al Audette, Paul Clark, Kevin Johnson, Pat Lando, Bill Misocky, Fred Vokers, Michael Curtright, Steve Hart

Members Absent: Ed Holmes

Staff In Attendance: Ray Shipman

Visitors Present: None

Agenda Items	TAG/Staff Actions/Discussion
1. Welcome and Introductions	Meeting called to order at 10:00 a.m. by Steve Simpson. Everyone was welcomed and roll was taken.
2. Review & Approve Agenda	The agenda was approved as written.
3. Review and Approve December 7, Minutes	Minutes approved
4. Review Results From Tasks Assigned at December 7 th	See attached worksheet
7. Adjourn	The meeting was adjourned at 2:00 p.m.

Attachments: 2018 UPC Review Status spreadsheet

Washington State Building Code Council • Code Change Cycle 2018 Group 2 2018 Uniform Plumbing Code Review Worksheet

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 1 Scope and Administration (...)						
	102.1	WAC 51-56-0100 Conflict Between Codes	Delete paragraph	N	Y	None
	103.3.1	WAC 51-56-0100 Certification		N	Y	None
Chapter 2 Definitions. (...)						
203.0			“Anesthetizing Location” Deleted “Appliance” now includes <i>compressed fuel gas</i> as an energy source	N	N	None
	205.0	WAC 51-56-0200 Certified Backflow Assembly Tester	Category 1,2,3, Combustible material, Critical Care Area. Definition and NFPA have been re-written. Category 3 “Vacuum System” The term “medical” has been removed and the NFPA reference has been changed.	N	N	Keep the amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
206.0			Direct Vent Appliances. / The word "all" has been added before "flue gases" and the NFPA reference has been changed.	N	N	None
209.0			The definition for "General Care Area" has been deleted.	N	N	None
	210.0	WAC 51-56-0200 Hot Water	The definition for "Hot Water" has been changed to 100° by a WA State Amendment. The amendment is still needed.	N	N	Keep the amendment
211.0	211.0	WAC 51-56-0200 Insanitary	Subsection (3) of this definition has been changed by a WA State Amendment. The amendment is still needed.	N	N	Keep the amendment
212.0	212.0	Joint Press Connect	This is a new definition for a new pipe joining method.	N	N	None
214.0	214.0	Minimal Sedation (Anxiolysis)	This is a new definition under "Levels of Sedation".	N	N	None
215.0	215.0		Medical Air. Definition and NFPA reference have been rewritten. Medical Gas. / Manifold / Medical Gas System & Medical Support Gas have been combined. Also the word " where " in the Medical Support Gas definition has been changed to " if ".	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	218.0	WAC 51-56-0200 Plumbing System	<p>Patient Care Room. This definition, title and NFPA reference have been rewritten.</p> <p>Plumbing System. / This definition has been changed by a WA State Amendment. The amendment is still needed.</p> <p>The definition for "Pressed Fitting" has been deleted.</p>	N	N	Keep the amendment
	225.0	WAC 51-56-0200 Water/Wastewater Utility	<p>Did not notice any changes. Are there any?</p> <p>Water/Wastewater Utility. / This definition has been changed by a WA State Amendment. The amendment is still needed.</p> <p>Wet Procedure Locations. / The word "room" has been changed to "space"</p>	N	N	Jed stated that it was an error in printing. No changes. Keep the amendment
Chapter 3 General Regulations (...)						
	301.2.2	WAC 51-56-0300 Standards	None	N	N	Keep amendment
	301.3	WAC 51-56-0300 Alternative Materials and Methods of Construction Equivalency	None	N	N	Keep amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
309.5		Sound Transmission				Tabled to AI in the room
	310.4	WAC 51-56-0300 Use of Vent and Waste Pipes				Keep amendment
	312.6	WAC 51-56-0300 Freezing Protection				Keep amendment
	312.7	WAC 51-56-0300 Fire-Resistant Construction				Keep amendment
Chapter 4 Plumbing Fixtures and Fixture Fittings (...)						
	402.5	WAC 51-56-0400 Setting				Work with DOH
	405.4	WAC 51-56-0400 Application				Work with DOH
	407.2	WAC 51-56-0400 Water Consumption				Work with DOH
Chapter 5 Water Heaters (...)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	501.1	WAC 51-56-0500 Applicability	The minimum capacity for water heaters shall be in accordance with the first hour rating listed in Table 501.1(2) to match model code Table 501.1(1) has been moved to this location and renumbered. Table 501.1(2) has been updated by a TIA and renumbered. This table was changed by a WA State Amendment which needs to be reviewed to see if it is still needed.	N	Y	Re-number "2" to match model code
	504.1	WAC 51-56-0500 Location				Keep Amendment
	505.2	WAC 51-56-0500 Safety Devices	Is the amendment still needed?			Keep the amendment
	506.0	WAC 51-56-0500 Combustion Air	See the Mechanical Code. Sections 506.1 through 506.9 are not adopted. Sections 507.6 through 507.9 are not adopted.			Keep The amendment
	507.2	WAC 51-56-0500 Seismic Provisions	Not needed. Model code covers the intent of WAC.	N	Y	Delete the Amendment
507.3		Appliance Support	The Title has been changed from "Support of Appliances". The text "with an approved number of supports" has been changed to "with a sufficient number of supports."	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
507.3.1		Structural Capacity	The text "are capable to carry" has been changed to "are adequate to carry"	N	N	None
507.4		Ground Support	The text "supported from the ground shall" has been changed to "supported from the earth shall"	N	N	None
507.6		Added or Converted Equipment or Appliances. Subsection (1)	The text "they shall be upgraded to be in accordance with Section 506.0 specifications. [NFPA 54:9.1.2(1)]"	N	N	Not adopted
507.10		Protection of Gas Appliances from Fumes or Gases other than Products of Combustion.	The text "shall be located in a mechanical equipment room" has been changed to "shall be located in a mechanical room" The text "shall be installed in accordance with the appliance manufacturers" has been changed to "shall be in accordance with the appliance manufacturers"	N	N	None
507.12		Flammable Vapors	The text "with Section 507.13, Section 507.14, or Section 507.15" has been changed to "with Section 507.13, through Section 507.15"	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
507.14		Repair Garages.	<p>The existing Section read as follows: Appliances installed in repair garages shall be installed in a detached building or room, separated from repair areas by walls or partitions, floors, or floor-ceiling assemblies that are constructed so as to prohibit the transmission of vapors and having a fire resistance rating of not less than 1 hour, and that have no openings in the wall separating the repair area within 8 feet (2438 mm) of the floor. Wall penetrations shall be fire stopped. Air for combustion purposes shall be obtained from outside the building. The heating room shall not be used for the storage of combustible materials.</p> <p>Exceptions: (1) Overhead heaters where installed not less than 8 feet (2438 mm) above the floor shall be permitted.</p> <p>(2) Heating appliances for vehicle repair areas where there is no dispensing or transferring of Class I or Class II flammable or combustible liquids or liquefied petroleum gas shall be installed in accordance with NFPA 30A. [NFPA 54:9.1.11.2] The entire Section was revised to read as follows: Appliances installed in</p>	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
			repair garages shall be installed in accordance with NFPA 30a [NFPA 54:9.1.11.2]			
	507.13	WAC 51-56-0500 Installation in Garages		N	N	Keep amendment
	507.16	WAC 51-56-0500 Venting of Flue Gases	Delete entire section. Sections 507.18 through 507.22 are not adopted	N	N	Keep amendment
507.27		Clearance to Combustable Materials	Appliances and their vent connectors shall be installed with clearances from combustible material so their operation does not create a hazard to persons or property. Minimum clearances between combustible walls and the backsides of various conventional types of appliances and their vent connectors are specified in Section 509. [NFPA 54:9.2.2]	N	N	None
508.0		Equipment and Appliances on Roofs.	Equipment and Appliances on Roofs. Has been changed to "Appliances on Roofs."	N	N	None
508.1		General	The text "Equipment and appliances on roofs" has been changed to: "Appliances on roofs" The text "panels of the equipment and appliance and the wall" has been changed to: "panels of the appliance and the wall"	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
508.1.1		Load Capacity	The text "Roofs on which equipment and appliances are to be installed" has been changed to: "Roofs on which appliances are to be installed"	N	N	None
508.2		Electrical Power.	The text "Equipment and appliances requiring" has been changed to "Appliances requiring"	N	N	None
508.2.1		Clearance	<p>Clearance. The text "Equipment and appliances shall be installed" has been changed to "Appliances shall be installed"</p> <p>The text " between a part of the equipment and appliance and the edge" has been changed to "between a part of the appliance and the edge"</p>	N	N	None
508.2.2		Electrical Power	<p>Electrical Power. The text "Equipment and appliances requiring" has been changed to "Appliances requiring"</p> <p>Subsection (1) The text "de-energize the equipment and appliance." has been changed to "de-energize the appliance."</p> <p>Subsection (2) The text "adjacent to the equipment and appliance." has been changed to "adjacent to the appliance."</p>	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
508.2.3		Platform or Walkway	The existing Section includes (3) references to "equipment and appliances" which have been changed to "appliances"	N	N	None
508.3		Access to Equipment and Appliances on Roofs	Equipment and appliances located on roofs or other elevated locations shall be accessible. [NFPA 54:9.4.3.1] This section has been changed to: Appliances on Roofs. Appliances located on roofs or other elevated locations shall be accessible. [NFPA 54:9.4.3.1]	N	N	None
508.3.2			Access Type. The text "trapdoors shall be not less than 22 inches" has been changed to "trapdoors shall be at least than 22 inches" The text "Not less than 6 feet (1829 mm) of clearance " has been changed to "At least than 6 feet (1829 mm) of clearance" The text "guards not less than 42 inches" has been changed to "guards a minimum of 42 inches "	N	N	None
	509.0	WAC 51-56-0500 Venting of Equipment	Delete entire section	N	N	Keep amendment
	510.0	WAC 51-56-0500 Sizing of Category I Venting Systems	Delete entire section			Keep amendment

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	511.0	WAC 51-56-0500 Direct Vent Equipment	Delete entire section			Keep Amendment
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Chapter 6 Water Supply and Distributuion (...)

	601.1	WAC 51-56-0600 Applicability				
	603.1	WAC 51-56-0600 General				
	603.2	WAC 51-56-0600 Approval of Devices or Assemblies				
	603.4.2	WAC 51-56-0600 Testing				
	603.4.9	WAC 51-56-0600 Prohibited Location				
	603.5.6	WAC 51-56-0600 Protection from Lawn Sprinklers and Irrigation Systems				
	603.5.10	WAC 51-56-0600 Steam or Hot Water Boilers				
	603.5.12	WAC 51-56-0600 Beverage Dispensers				
	603.5.14	WAC 51-56-0600 Protection from Fire Systems				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	604.14	WAC 51-56-0600 Plastic Pipe Termination				
	606.5	WAC 51-56-0600 Control Valve				
	608.3	WAC 51-56-0600 Expansion Tanks, and Combination Temperature and Pressure-Relief Valves				
	608.3.1	WAC 51-56-0600				
	608.5	WAC 51-56-0600 Discharge Piping				
	609.9	WAC 51-56-0600 Disinfection of Potable Water System				
	609.11	WAC 51-56-0600 Insulation of Potable Water Piping				
	610.4	WAC 51-56-0600 Sizing Water Supply and Distribution Systems				
	611.1	WAC 51-56-0600 Application				
	612.1	WAC 51-56-0600 General	Sections 612.2 through 612.7.2 are not adopted.			

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Chapter 7 Sanitary Drainage (... THIS CHAPTER NEEDS RE-NUMBERED)						
	701.2	WAC 51-56-0700 Drainage Piping	Retain State Amendment? Chapter 14 referenced the remaining language same.	N	?	
Table 701.2		Materials for DWV and fittings	Added new reference standards for co-extruded PVC (ASTM F1760, F1336) Polyethylene ASTM F894 Added two materials PVC (sewer drain) and PVC PSM	N	N	
	703.2	WAC 51-56-0700 Table	Retain State Amendment	Y	Y	
	704.3	WAC 51-56-0700 Commercial Sinks	Retain State Amendment	N	Y	
705.2.2	705.2.2	Mechanical Joints and Compression Joints	Second Paragraph change from in accordance with to comply with	N	n	
705.3.1	705.3.1	Brazed Joints	change from in accordance with to comply with	N	N	
705.3.3	705.3.3	Soldered Joints	change from in accordance with to comply with	N	N	
705.3.4	705.3.4	Threaded Joints Copper or Copper Alloy	change from in accordance with to comply with	N	N	
705.4.2	705.4.2	Threaded Joints	change from in accordance with to comply with	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
705.5		Polyethylene PE Sewer Pipe	Added new sections dealing with installation of PE sewer piping	N	?	
705.6.1	705.5.1	Mechanical Joints	Added Hydraulic press-connect	N	N	
705.6.2	705.5.2	Solvent Cemented Joints	change from in accordance with to comply with	N	N	
705.7.2	705.6.2	Welded Joints	Comply with to accordance with	N	N	
705.8.1	705.7.1	Mechanical Joints	change from in accordance with to comply with	N	N	
705.10	705.9	Joints Between Various Materials	Referenced sections changed change from in accordance with to comply with	N	N	
	707.4	WAC 51-56-0700 Location	Retain State Amendment	N	Y	
	707.9	WAC 51-56-0700 Clearance	Retain State Amendment	N	Y	
	713.0	WAC 51-56-700	Part II Building Sewers. Delete all of Part II (Sections 713 through 723, and Tables 717.1 and 721.1).			
Chapter 8 Indirect Waste (...)						
		WAC 51-56-0800 Indirect wastes	No text	N	N	Keep Amendment
811.2	811.2	Waste and Vent Pipes	Code change adds CPVC pipe and fittings and applicable product standard. Recommend accepting the code change. No state amendment needed and no economic impact.	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 9 Vents (...)						
	903.1	<u>WAC 51-56-0900</u> Applicable Standards	Code change deletes reference to Table 701.1 (which is what the state amendment does) and adds specific requirements for testing plastic pipe and tubing to ASTM E84 or UL 723. Recommend accepting the code change. No need for state amendment. No economic impact.	N	N	Delete Amendment
903.2.3	903.2.3	Marking	Code change deletes reference to Table 1701.1. Recommend accepting the code change. No state amendment needed, no economic impact.	N	N	None
906.1	906.1	Roof termination	Code change adds requirement to protect ABS and PVC piping exposed to sunlight by means of water based synthetic latex paints. This is a recommendation by manufacturers, not a mandate. Could be viewed as an economic impact. Needs discussion.	N	N	None

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	908.2.4	WAC 51-56-0900 Water Closet	This section is not adopted Recommend keeping the state amendment to delete since the water closet can be located downstream of other fixtures in a circuit vent configuration. No economic impact by keeping the state amendment.	N	N	Keep amendment
Chapter 10 Traps and Interceptors (...)						
		WAC 51-56-1000 Traps and interceptors	No Text			Table discussion on table 1014.2.1.
Chapter 11 Storm Drainage (...)						
	1101.4	WAC 51-56-1100 Material Uses	Added: In accordance with applicable standards referenced in Table 1701.1. Also added: Where tested in accordance with ASTM E84 or UL 723. These tests shall comply with all requirements of the standards to include the sample size, both for width and length. Plastic pipe shall not be tested filled with water.			This section is a Washington State Amendment
1101.13	WAC 51-56-1100 Cleanouts	No changes here	NOTE: the only other change in this section was in 1104.2 Conductors: 2015 code stated be in accordance: 2018 code states "Shall Comply Keep amendment			Keep Amendment
	1101.13.1	WAC 51-56-1100 Locations	No changes here			Keep amendment

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	1101.13.2	WAC 51-56-1100 Cleaning	This section is not in the 2015 or 2018 UPC code.			Keep Amendment
	1101.13.3	WAC 51-56-1100 Access	This section is not in the 2015 or 2018 UPC code.			Keep Amendment
	1101.13.4	WAC 51-56-1100 Manholes	This section is not in the 2015 or 2018 UPC code.			Keep Amendment
	1105.0	WAC 51-56-1100 Controlled-Flow Roof Drainage	This section is not adopted.			Keep the amendment
Chapter 12 Fuel Gas Piping (...) NOT ADOPTED						
Chapter 13 Health Care Facilities Med Gas & Vacuum Syst. (...)						
	1303.8	WAC 51-56-1300 Water Mains for Hospitals				Keep the amendment
	1305.3	WAC 51-56-1300 Minimum Station Outlets/Inlets				Keep the amendment
Chapter 14 Firestop Protection (...)						
		WAC 51-56-1400	RESERVED NO TEXT			
Chapter 15 Alt. Water Sources for Nonpotable App. (...)						
	1501.1.1	WAC 51-56-1500 Allowable use of Alternative Water				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	1501.2	WAC 51-56-1500 System Design	Alternate water source systems shall be designed in accordance with this chapter, and applicable department of health rules by a registered design professional		Y	Work With DOH
	1501.7		The minimum water quality for alternate water source systems shall meet the applicable water quality requirements for the intended application as determined by applicable department of health rules and the authority having jurisdiction. In the absence of water quality requirements, the EPA/625/R-04/108 contains recommended water reuse guidelines to assist regulatory agencies develop, revise, or expand alternate water source water		Y	Work With DOH
	1501.11.2.3	WAC 51-56-1500 Discovery of Cross-Connection	In the event that an unauthorized cross-connection with the potable water system is discovered, the following procedure, , in the presence of the AHJ, shall be activated immediately			
	1501.13.1	WAC 51-56-1500 General				
	1502.0	WAC 51-56-1500 Gray Water Systems	NOT ADOPTED			

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	1503.4	WAC 51-56-1500 Connection to Potable or Reclaimed (Recycled) Water Systems				
	1504.1	WAC 51-56-1500 General	1501.1.1 Allowable use of Alternative Water. Where approved or required by the authority having jurisdiction, alternate water sources (reclaimed (recycled) water, gray water and on-site treated nonpotable water) shall be permitted			Work With DOH
	1504.7	WAC 51-56-1500 On-Site Treated Nonpotable Water Devices and Systems	Devices or equipment used to treat nonpotable water for on-site use in order to maintain the minimum water quality requirements determined by the authority having jurisdiction shall be approved by the department of health.			Work With DOH
	1504.10.2	WAC 51-56-1500 Reserved	RESERVED NO TEXT			

Chapter 16 Nonpotable Rainwater Catchment Syst. (...)						
	1601.11.1	WAC 51-56-1600 General				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	1602.0	WAC 51-56-1600 Nonpotable Rainwater Catchment Systems	NO TEXT			
	1602.1	WAC 51-56-1600 General	The installation, construction, alteration, and repair of rainwater catchments systems shall be approved by the authority having jurisdiction			
	1602.11.2.3	WAC 51-56-1600 Discovery of Cross-Connection				
Chapter 17 Reference Standards (...)						
		WAC 51-56-1700				
Appendices A,B,I (...)						