



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

1500 Jefferson Street SE • P.O. Box 41449 • Olympia, Washington 98504
(360) 407-9280 • fax (360) 586-9088 • e-mail sbcc@des.wa.gov • www.sbcc.wa.gov

MINUTES PLUMBING CODE TAG MEETING

Date: April 1, 2015
Location: Seattle Area Pipe Trades Education Center
Renton, Washington

TAG Members Present: Steve Simpson, Chair; Ralph Baumann; Dave Cantrell; Bill Misocky; Fred Volkers; Ed Holmes; *Jereme Wickstrom; *Frank Van der Harst

*Alternates

TAG Members Absent: Duane Lease, Charly Mitchel, Chan Namanny, John Williams

Visitors Present: Dwight Perkins

Staff Present: Krista Braaksma

CALL TO ORDER

The meeting was called to order by TAG Chair, Steve Simpson at 9:05 a.m. Everyone was welcomed and introductions were made. Steve noted that there has been some discussion at the Council level and he wanted to note he was representing the Council at these meetings. The meeting will be run per Robert's Rules of Order and the Chair will not be making motions or voting. He also noted there are ongoing discussions regarding TAG membership.

REVIEW AND APPROVE AGENDA/MINUTES

The agenda was modified to move review of proposals up before the review of assigned chapters. The minutes of the March 18 meeting were approved as written.

2015 PROPOSED STATE AMENDMENTS

15-P01

Krista noted this proposal was actually submitted as an amendment to the Washington State Energy Code. It is coming before the Plumbing Code TAG as a correlation issue, since it deals with plumbing systems. The proponent, Mike Kennedy, was unable to attend the meeting.

Bill Misocky stated his company does a lot of these in high rise residential. His concern was the prohibition on pressure reducing devices in item b. These systems typically need to be pressurized to get the water to the top of the building, and then the pressure is reduced to 80 psi.

Dave Cantrell wondered about enforceability of the provisions, since these are typically systems designed and signed off by the engineer.

Bill asked that the proponent specify what problems he's seeing or what exactly he's trying to fix.

Motion: Dave Cantrell moved to table the proposal until the proponent provides more information. Bill Misocky seconded the motion. The motion carried unanimously.

15-P04

The next proposal was from Dave Cantrell on water heater strapping. He noted there were a number of sections in the mechanical code and residential code that needed to be coordinated with the plumbing code. He reported that related proposals have already been reviewed by the Mechanical TAG, and they are recommending a modification to strike all the verbiage related to seismic zones and just start with the second sentence. Bill Misocky concurred with the changes and felt this would make the section clearer and more user friendly.

Motion: Dave moved to recommend approval as modified for 15-P04. Bill Misocky seconded the motion. The motion carried unanimously.

Modification:

507.2 Seismic Provisions. ~~In seismic design categories C, D, E, and F D0, D1 and D2, and in townhouses in seismic design category C,~~ Water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one-third and lower one-third of its vertical dimensions. At the lower point, a distance of not less than 4 inches (102 mm) shall be maintained from the controls to the strapping.

15-P26

The final proposal reviewed by the TAG was a proposal by Chuck Murray and Tana Senn to add an appendix chapter that would allow local jurisdictions to adopt the green code specifications for water conservation.

Dave Cantrell noted that RCW 19.27.170(9) states: "The water conservation performance standards shall supersede all local government codes. After July 1, 1990, cities, towns, and counties shall not amend the code revisions and standards established under subsection (4) or (5) of this section." and thus prohibits adopting this proposal.

Motion: Dave Cantrell moved to recommend disapproval of 15-P26, based on statutory restrictions. Ed Holmes seconded the motion. The motion carried unanimously.

REVIEW OF CHAPTER ASSIGNMENTS

The TAG reviewed Jereme Wickstrom's Chapter 4 report, Steve Simpson's Chapter 1 report and Dave Cantrell's report on Appendices A, B and I. The TAG suggested several changes to the state amendments in Chapter 4 and asked Krista to bring back a copy of the water conservation section integrated into the new 2015 language. Dave Cantrell noted the majority of Appendix I went away, with only one installation standard remaining. Fred Volkers expressed some concerns regarding the deletion, since he used them on a regular basis.

OTHER BUSINESS

The next meeting is scheduled for April 15. In addition to reviewing submitted code change proposals, the following chapters will be reviewed: 15 - Alt. Water Sources (Dave Cantrell), 9 – Vents (Bill Misocky), 7 – Sanitary Drainage (Frank Van der Harst), 5 - Water Heaters (Steve Simpson), and 3 - General Regulations (Dave Cantrell).

Arlington amendment

Code Adoption

ADJOURNMENT

The meeting was adjourned at 12:00 p.m.

Washington State Building Code Council • Code Change Cycle 2015 2015 Uniform Plumbing Code Review Worksheet

2012 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Amend Needed (Y/N)	TAG Comments
Chapter 1					
103.7	101.4	unconstitutional	Moved Within Chapter	n	
103.8	101.5	Validity	Moved Within Chapter	n	
101.4	102.1	Conflicts Between Codes	Moved into new section	n	Retain state amendment (Dave, Bill) Motion Carried
103.1.3	103.3.1	Licensing	Removed section Moved within chapter No need for WSA	n	Retain state amendment (Dave, Bill) Motion Carried
101.11.2	102.2	Existing Installations	Moved Within Chapter	n	
101.7	102.3	Maintenance	Added New Language (existing and new) New language "Devices or Safeguards by this code"	n	
101.9 101.11	102.4	Additions, Alterations, Renovations, or Repairs	Language moved and combined into new section and rewritten	n	
101.6.1	102.4.1	Building Sewers and Drains	Moved Within Chapter	n	
101.6.2	102.4.2	Openings	Moved Within Chapter	n	
101.11.1	102.5	Health and Safety	Moved Within Chapter	n	
101.11.3	102.6	Changes in Building Occupancy	Moved Within Chapter	n	

103.5.8.2	102.7	Moved Structures	Added sentence Shall be in accordance with provisions of this code for new installations	n	Krista brought up the RCW, Dave felt it wouldn't really be in conflict with RCW
101.10	102.8	Appendices	Moved Within Chapter	n	
102.2	103.0	Duties and Powers of the Authority Having Jurisdiction	Moved Within Chapter	n	
102.1 102.2	103.1	General	Moved Within Chapter Incorporated section 102.2 into the general section	n	
102.2.5	103.2	Liability	Moved Within Chapter	n	
?	103.3	Applications and Permits	Added new term Construction Documents	n	Fred noted it was a new definition as well
103.1.2	103.3.1	Licensing	Moved Within Chapter	n	
102.2.1	103.4	Right of Entry	Moved Within Chapter	n	
103.0	104.0	Permits	Moved Within Chapter	n	
103.1	104.1	Permits Required	Moved Within Chapter	n	
103.1.1	104.2	Exempt Work	Moved Within Chapter	n	
103.2	104.3	Application for Permit	Moved Within Chapter Change section reference (4) 403.2.1 104.3.1	n	
103.2.1 103.2.2	104.3.1	Construction Documents	New Language Re-worded the Plans and Specification and added Construction Documents	n	
103.4.1	104.3.2	Plan Review Fees	Moved Within Chapter Construction Documents Section 104.5/ 403.4	n	
103.4.2	104.3.3	Time Limitation of Application	Moved Within Chapter	n	

103.3	104.4	Permit Issuance	Moved Within Chapter Construction Documents	n	
103.3	104.4.1	Approved Plans or Construction Documents	New Language	n	<u>Under 103.3 in previous code, para 2 & 3</u>
103.3.2	104.4.2	Validity of Permit	Moved Within Chapter Construction Documents	n	
103.3.3	104.4.3	Expiration	Moved Within Chapter Added not to exceed 1 year	?	
<u>103.3.3</u>	104.4.4	Extensions	New language moved within the chapter	n	<u>Second para</u>
103.3.4	104.4.5	Suspension or Revocation	Moved Within Chapter	n	
103.3.1	104.4.6	Retention of plans	Moved Within Chapter Approved construction documents Removed plans, and specifications	n	
103.4	104.5	Fees	Moved Within Chapter	n	
103.4.3	104.5.1	Work Commencing Before Permit Issuance	Moved Within Chapter	n	
103.4.3	104.5.2	Investigation Fees	Moved Within Chapter	n	
103.4.4 103.4.4.1 103.4.4.2	104.5.3	Fee Refunds	Moved Within Chapter Combined sections into one and slight re-wording of the section has been done	n	
103.5	105.0	Inspections and Testing	Moved Within Chapter Added a General Section 105.1 Re-worded the first sentence of the second paragraph.	n	
103.5.2	105.2	Required Inspections	Moved Within Chapter Added new language of types of inspections Underground, Rough-in, and Final	n	

103.5.4 103.5.5	105.2.1	Uncovering	Moved Within Chapter Incorporated Operation of Plumbing equipment into the Uncovering section	n	
103.5.1	105.2.1.1	Water Supply System	Moved Within Chapter	n	
103.5.3	105.2.1.2	Covering or Using	Moved Within Chapter	n	
103.5.8	105.2.1.3	Other Inspections	Moved Within Chapter Replaced inspections of /inspections to	n	
103.5.7	105.2.3	Inspection Requests	Added the word permitted	n	
103.5.7.1	105.2.4	Advanced Notice	Moved Within Chapter	n	
103.5.7.2	105.2.5	Responsibility	Moved Within Chapter	n	
103.5.9	105.2.6	Reinspections	Added the term SHALL to the second paragraph to make the statement mandatory.	n	
103.5.6	105.3	Testing of the System	Sections incorporated into one section Test, Test Waived, Exceptions, and Tightness were all moved into one section	n	
103.5.8.1	105.3.1	Defective Systems	Moved Within Chapter	n	
103.5.9.2	105.3.2	Retesting	Moved Within Chapter	n	
103.5.9.3	105.3.3	Approval	Re-worded first sentence Upon the satisfactory completion and final test of a plumbing system,	n	
103.6 103.6.1 103.6.2	105.4	Connection to Service Utilities	Sections combined Other Connections, Temporary Connections	n	
102.4, 102.5	106.0	Violations and Penalties	Added a general section 106.1	n	
103.5.9.1	106.2	Notices of Correction or Violation	Language revision (removed the word his and replaced it with their) (governing laws of the jurisdiction)	n	
102.5	106.3	Penalties	Moved Within Chapter	n	

102.2.2	106.4	Stop Orders	Moved Within Chapter	n	
102.2.3	106.5	Authority to Disconnect Utilities in Emergencies	Moved Within Chapter	n	
102.2.4	106.6	Authority to Condemn	Moved Within Chapter	n	
102.3	107.0	Board of Appeals	Added a General section 107.1	n	
102.3.1	107.2	Limitations of Authority	Moved Within Chapter	n	
103.4	104.5	Table 104.5 Plumbing Permit Fees	Moved Within Chapter	n	
Ed Holmes moved to accept the new language as noted. Dave Cantrell seconded the motion. Motion carried.					

2012 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Amend Needed (Y/N)	TAG Comments
Chapter 4					
401.0	401.0	general	Was; materials-general requirements.		
N/A	401.1	Applicability	Added section		
401.1	401.2	Quality of fixtures	Was; Lead-Deleted topic. Now; quality of fixtures. Table ref>1701.1, not 1401.1		
401.2	N/A	lead	Maybe location 408.7.3 (sheet lead?)		
402.0	402.0	installation	No change		
402.1	402.1	Cleaning	No change		
402.2	402.2	Joints	No change		
402.3	402.3	Securing fixtures	No change		
402.4	402.4	Wall hung fixtures	No change		

402.5	402.5	setting	Was; an amendment Now; in code section, no changes to verbiage.	Y	<u>Modify state amendment? Dave recommends a change to read 21 for dwelling & sleeping units, 24 for other uses, with correlating change to IBC.</u>
402.6	402.6	Flange fixture connections.	Was; Brass Now; copper alloy (term was added to definitions)		
402.6.1	402.6.1	Closet rings	Was; bronze Now; copper alloy		
402.6.2	402.6.2	Securing closet flanges	Was; brass, copper Now; copper alloy		
402.6.3	402.6.3	Securing floor mounted back outlet water closet bowls	No changes		
402.8	402.7	Supply fittings	No changes		
402.9	402.8	Installation	Was; water conserving fixtures. Now; fixtures.		
402.10	402.9	Design and installation of plumbing fixtures	No changes		
402.11	402.10	Slip joint connections	No changes		
402.12	402.11	Future fixtures	Was; required sizes of drain pipes. Now; required sizes of drain and water supply piping.		
N/A	403.0-403.3	Accessible plumbing facilities	New section added (403.0-403.3)		
	403		State amendment – water conserving fixtures & fittings	y	<u>Bill Misocky moved to have Krista correlate existing amendments into new section for</u>

					next meeting. Ed Holmes seconded the motion. Motion carried.
404.0	404.0	Overflows	No changes		
404.1	404.1	General	No changes		
405.0	N/A	Strainers and connections	Not shown in 2015.		
406.0	405.0	Prohibited fixtures	Location change only		
406.1	405.1	Prohibited water closets	Location change only		
406.2	405.2	Prohibited urinals	Location change only		
406.3	405.3	Miscellaneous fixtures	Location change only		
407.0	406.0	Special fixtures and specialties	Location change only.		
407.1	406.1	Water and waste connections	Location change only.		
407.2	406.2	Special use sinks	Location change only.		
407.3	406.3	Special use fixtures	Location change only.		
407.4	406.4	Zinc alloys components	Location change only.		
N/A	407.0-407.6	Lavatories	No shown in 2012; <u>moved from previous sections</u>		<u>Dave Cantrell moved to table until state amendment review. Ed Holmes seconded the motion. Motion carried.</u>
408.0	408.0	Showers	No change		
408.1	408.1	Application	Was; 1401.1 Now; ASME A112.19....etc...		
408.2	408.2	Water consumption	No change		<u>Correlate with state amendment</u>

408.3	408.3	Individual shower and tub shower combination control valves	No change		
408.4	408.4	Waste outlet	Was; amendment had exception. Now; no exception in 2015, also refers to section 701.2 rather than 701.1.		Ed Holmes moved to Table. Fred Volkers seconded the motion. Check to see if IAPMO has an errata on this item. Motion carried.
408.5	408.5	Finish curb or threshold	The immediate adjoining space to showers		
408.6	408.6	Showers compartments	Was; amendment, minimum finish 900sq.inches Now; not amendment, minimum 1024sq.inches Please explain the 30x30" finish = 1024??	<u>Y</u>	Ed Holmes moved to retain state amendment. Fred Volkers seconded the motion. Motion carried.
408.7	408.7	Lining for showers and receptors	Last paragraph of section was deleted; now in separate subsections. Shower lining materials shall.....		
408.7.1	408.7.1	PVC sheets	Was; test for shower receptors. Now; PVC sheets new section.		
N/A 408.7	408.7.2	Chlorinated polyethylene PVC sheets	New section		
N/A 408.7	408.7.3	Sheet lead	New section		
N/A 408.7	408.7.4	Sheet copper	New section		
N/A 408.7.1	408.7.5	Tests for shower receptors	New section moved section		
408.8	408.8	Public shower floors	No changes		
408.9	408.9	Locations of valves and heads	No changes		
408.10	408.10	Water supply riser	No changes		

409.0	409.0	Bathtubs and whirlpool bathtubs	No changes		
409.1	409.1	Application	Was; refer to 1401.1 Now; refer to ASME A112.19.1....etc...		
409.2	409.2	Waste outlet	Was; refer to section 701.1 Now; refer to section 701.2		Matches 408.4 – table as well.
409.3	409.3	Overflow	No changes		
409.4	409.4	Limitation of hot water in bathtubs and whirlpool bathtubs	No changes		
409.5	409.5	Backflow protection	No changes		
409.6	409.6	Installation and access	No changes		
N/A	409.6.1	Flexible PVC hoses and tubing	New section added		
410.0	410.0	Bidets	No changes		
410.1	410.1	Application	No changes		
410.2	410.2	Backflow prevention	No changes		
410.3	410.3	Limitation of water temperature in bidets	No changes		
411.0	411.0	Water closets	No changes		
411.1	411.1	Application	Was; water closet bowls. Now; refer to ASME A112....etc...		
N/A	411.2	Water consumption	New section added.		
N/A	411.2.1	Dual flush water closets	New section added.		
N/A	411.2.2	Flushometer valve activated water closet.	New section added.		
410.3	410.3	Limitation of water temperature in bidets	No changes		

411.0	411.0	Water closets	No changes		
411.1	411.1	Application	Was; water closet bowls. Now; refer to ASME A112....etc...		
N/A	411.2	Water consumption	New section added.		Correlate with existing state amendment
N/A	411.2.1	Dual flush water closets	New section added.		
N/A	411.2.2	Flushometer valve activated water closet.	New section added.		
411.2	411.3	Water closet seats	Was; refer to Table 1401.1 Now; refer to IAPMO Z124.5		
412.0	412.0	Urinals	No changes		
412.1	412.1	Application	Was; refer to Section 603.5, Section title change Now; ASME A112.19.1...etc.		
N/A	412.1.1	Non water urinals	New section added		
N/A	412.2	Backflow protection	New section added		
413.0	413.0	Flushing devices	Section title change		
413.1	N/A	application	Section deleted		
413.2	413.1	Where required	Section title has changed, was clinic sink, now clinical sink.		
413.3	413.2	Flushometer valves	Location change. Refers to ASSE 1037 or CSA		
N/A	413.3	Flush tanks	New section added		
413.4	413.4	Water supply for flush tanks	No changes		
413.5	413.5	Overflows in flush tanks	No changes		
414.0	414.0	Dishwashing machines	No changes		

414.1	414.1	Application	Was; refer to table 1401.1 Now; refer to UL 749, NFS 3...etc.		
414.2	414.2	Backflow protection	No changes		
414.3	414.3	Drainage connection	Was; refer to Section 807.4 Now; refer to Section 807.3, 704.3 >direct connection for commercial D.W's	y	Bill, Ed moved to retain modified state amendment.
415.0	415.0	Drinking fountains	No changes		
415.1	415.1	Application	Was; refer to Table 1401.1 Now; Refer to ASME A112.19.2 etc..... >permanently installed electric water coolers.		
415.2	415.2	Drinking fountain alternatives	Was; where required. Now; bottle filling station into code.		Bill recommended deleting to allow IBC to take precedence. [Fred, also new definition]
415.3	415.3	Drainage connection	No change		
415.4	415.4	Location	No changes		
416.0	416.0	Emergency eyewash and shower equipment	No changes		
416.1	416.1	Application	No changes		
416.2	416.2	Water supply	No changes		
416.3	416.3	Installation	No changes		
416.4	416.4	Location	No changes		
416.5	416.5	Drain	No changes		
417.0	417.0	Faucet and fixture fittings	No changes		
417.1	417.1	Application	No changes		
417.2	417.2	Deck mounted bath and shower valves	Was; refer to ASME A112.18.7 Now; refer to ASME A112.18.1/CSA B125.1		

417.3	417.3	Handheld showers	Was; refer to ASME A112.18.3 Now; refer to ASME A112,.18.3 OR ASSE 1014		
417.4	417.4	Faucet and fixture fitting with hose connection outlets	No change		
417.5	417.5	Separate controls for hot and cold water	Was; shower only Now; include tub/shower combinations		
418.0	418.0	Floor drains	No changes		
418.1	418.1	Application	Was; refer to table 1401.1 Now; refer to ASME A112.3.1, ASME A112.6.3 OR CSA B79		
418.2	418.2	Strainer	No changes		
418.3	418.3	Location of floor drains	Was; amendment Now; in 2015, adds; boiler rooms, commercial kitchens.	<u>Y</u>	
<p><u>Retain state amendment, with new #4</u> <u>Bill Misocky, Ed Holmes moved to do so. Motion carried. Bill noted there would be costs associated, especially with residential.</u> <u>Bill Misocky moved to reconsider. Ed Holmes seconded. Carried.</u> <u>New motion: Bill Misocky moved to retain existing state amendment as written. Frank Van der Harst seconded. Motion carried.</u></p>					
418.4	418.4	Food storage areas	Was; refer to Section 801.2.2 Now; refer to Section 801.3.2		
418.5	418.5	Floor slope	No changes		
419.0	419.0	Food waste disposal units	No changes		
419.1	419.1	Application	Was; refer to table 1401.1 Now; must comply with UL430, ASSE 1008		
419.2	419.2	Drainage connection	Was; food waste disposal unit. Now; food waste disposer.		
419.3	419.3	Water supply	Was; food waste disposal unit. Now; food waste disposer.		
420.0	420.0	Sinks	No changes		

420.1	420.1	Applications	Was; refer to table 1401.1 Now; refer to ASME A112.19.1....etc.		
420.2	420.2	Water consumption	No changes		Coordinate state amendment
N/A	420.3	Pre-rinse spray valve	New section added		
420.3	420.4	Waste outlet	Was; refer to section 701.1, brass not less than #20B&S gauge. Now; refer to section 701.2		
N/A	421.0	Floor sinks	New section		
422.0	422.0	Minimum number or required fixtures	Was; see building code chapter 29 Table 2902.1 Now; header only, no verbiage.	<u>Y</u>	Bill Misocky moved to retain state amendment. Ed Holmes seconded the motion. Motion carried.
N/A	422.1	Fixture count	New section		
N/A	422.1.1	Family or assisted use toilet in bathing facilities	New section		
N/A	422.2	Separate facilities	New section		
N/A	422.2.1	Family or assisted use toilet facilities	New section		
N/A	422.3	Fixture requirements for occupancies	New section		
N/A	422.4	Toilet facilities serving employees and customers	New section		
N/A	422.4.1	Access to toilet facilities	New section		
N/A	422.5	Toilet facilities for workers	New section		
Fred Volkens moved to approve the 2015 language as noted. Bill Misocky seconded the motion. The motion carried.					

2012 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Amend Needed (Y/N)	TAG Comments
Appendix A					
None	A 101.1	Applicability	Applicability. This appendix provides a general procedure for sizing a water supply system. Because of the variable conditions encountered, it is impractical to lay down definite detailed rules of procedure for determining the sizes of water supply pipes in an appendix, which shall necessarily be limited in length. For a more adequate understanding of the problems involved, refer to Water-Distributing Systems for Buildings, Report BMS 79 of the National Bureau of Standards; and Plumbing Manual, Report BMS 66, also published by the National Bureau of Standards. The following is a suggested order of procedure for sizing the water supply system.	N	
A 1.0	A 102.0	Preliminary Information	No change	N	
A 1.1	A 102.1	Daily Service Pressure	No change	N	
A 1.2	A 102.2	Water Meter	No change	N	
Chart A 1.2	Chart A 102.2	Friction Losses for Disk-Type Water Meters	No change	N	
A 1.3	A 102.3	Local Information	No change	N	
A 2.0	A 103.0	Demand Load	No change	N	
A 2.1	A 103.1	Supply Demand	No change	N	
A 2.2	A 103.2	Continuous Supply Demand	No change	N	
Table A 2.1	Table A 103.1	Water Supply Fixture Units (WSFU) and Minimum Fixture Branch Pipe Sizes	The terms "clinic" faucet and "clinic" flushometer changed to "clinical." Footnotes 3 and 7 seem to indicate a change, but the wording has not changed, only some words italicized to indicate their being included in the Chapter 2 definitions.	N	

Chart A 2.1	Chart A 103.1	Estimate Curves for Demand Load	No change	N	
Chart A 2.1(1)	Chart A 103.1(1)	Enlarged Scale Demand Load	No change	N	
A 3.0	A 104.1	Permissible Friction Loss	No change	N	
A 3.1	A 104.1	Residual Pressure	No change	N	
A 3.2	A 104.2	Elevation	No change	N	
A 3.3	A 104.3	Available Pressure	No change	N	
A 3.4	A 104.4	Developed Length	No change	N	
Table A 3.4	Table A 104.4	Allowance in Equivalent Length of Pipe for Friction Loss in Valves and Threaded Fittings – Equivalent Length of Pipe for Various Fittings	No change	N	
A 4.0	A 105.0	Size of Building Supply	No change	N	
A 4.1	A 105.1	Diameter	No change	N	
Chart A 4.1	Chart A 105.1	Friction Loss – Copper Tubing Smooth Pipe	No change	N	
Chart A 4.1(1)	Chart A 105.1(1)	Friction Loss – Fairly Smooth	No change	N	
Chart A 4.1(2)	Chart A 105.1(2)	Friction Loss – Fairly Rough	No change	N	
Chart A 4.1(3)	Chart A 105.1(3)	Friction Loss - Rough	No change	N	
A 4.2	A 105.2	Copper and Copper Alloy Piping	Copper and Brass Copper Alloy Piping. Where copper tubing or brass tubing or copper alloy pipe is to be used for the supply piping and where the character of the water is such that slight changes in the hydraulic characteristics are expected, Chart A 4-4 <u>105.1</u> shall be permitted to be used.	N	

A 4.3	A 105.3	Hard Water	No change	N	
A 5.0	A 106.0	Size of Principle Branches and Risers	No change	N	
A 5.1	A 106.1	Size	No change	N	
A 5.2	A 106.2	Branches	Minor grammatical changes, nothing substantive.	N	
A 5.3	A 106.3	Water Closets	No change	N	
A 6.0	A 107.0	General	No change	N	
A 6.1	A 107.1	Velocities	No change	N	
A 6.2	A 107.2	Pressure-Reducing Valves	No change	N	
A 6.3	A 107.3	Fittings	No change	N	
A 7.0	A 108.0	Sizing	No change	N	
A 7.1	A 108.1	Example	No change	N	
Bill Misocky moved to accept 2015 language in Appendix A. Jereme Wickstrom seconded the motion. Motion carried.					

2012 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Amend Needed (Y/N)	TAG Comments
Appendix B					
	B 101.1	General	New title only added.	N	
	B 101.1	Applicability	New section added: Applicability. This appendix provides general guidelines for the design and installation of a combination waste and vent system.	N	
B 1.0		General Requirements	No change	N	
B 2.0		Caution	No change	N	
B 3.0		Pneumatics	No change	N	
B 4.0		Trap Sizes	No change	N	

2012 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Amend Needed (Y/N)	TAG Comments
Appendix B					
B 5.0		Layout Drawings	No change	N	
B 5.1		Example of Sizing	No change	N	
Dave Cantrell moved to accept 2015 language. Ed Holmes seconded the motion. Motion carried					

2012 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Amend Needed (Y/N)	TAG Comments
Appendix I					
		Installation Standards	All 22 IAPMO Installation Standards contained in the 2012 UPC have been deleted. The 2015 UPC contains a new IAPMO IS 31-2014 standard for PEX Tubing Systems for Hot- and Cold-Water Distribution. As a result, the current WA State amendments to IAPMO IS 7, IS 8, and IS 20 are no longer necessary.	N	
Bill Misocky moved to accept the 2015 changes, delete the existing state amendments, but keep the language in WAC 51-56-004. Ed Holmes seconded the motion. Motion carried.					