



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

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2018 INTERNATIONAL MECHANICAL CODE TECHNICAL ADVISORY MEETING MINUTES

LOCATION: Shoreline City Hall
17500 Midvale Avenue North,
Shoreline, WA 98133

DRAFT

MEETING DATE: Thursday December 20, 2018

Members in Attendance: Eric Vander Mey, TAG Chair, Grant Middleton, Valerie Graber, Jonathan Jones, Ty Wasserman, Allen Spaulding, Nancy Bernard, Vern Enns, Mike Lubliner, Lawrence Palmer

Members Absent: Tom Jensen,

Staff In Attendance: Richard Brown, Ray Shipman

Visitors Present: None

Agenda Items	TAG/Staff Actions/Discussion
1. Welcome and Introductions	Meeting called to order at 10:10 a.m. by Eric Vander Mey. Everyone was welcomed and roll was taken.
2. Review & Approve Agenda	The agenda was approved as written.
3. Review and Approve December 4, 2018 Minutes	The agenda minutes were approved as written.
4. Review Results From Tasks Assigned at December 4 th Meeting	See attached Code Review Worksheet
5. Other Business	<ul style="list-style-type: none"> • TAG requested that Staff post the updated worksheet prior to the TAG Meeting. • Eric agreed to compare the MEC with the Energy Code • Staff will verify that WAC references correlate correctly with 2018 changes
6. Adjourn	The meeting was adjourned at 1:01 p.m.

The next Mechanical and Ventilation Code TAG Meeting is January 8, 2019.

Attachments: 2018 IRC Code Review Worksheet

Washington State Building Code Council • Code Change Cycle 2018 Group 2 2018 International Mechanical Code Review Worksheet

International Mechanical Code (RCW 19.27.031(2))

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
WAC Administration Scope and Administration (SBCC Staff)						
---	---	WAC 51-52-001 Authority	States authority of WAC 51-52. No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
---	---	WAC 51-52-002 Purpose	States purpose of WAC 51-52 No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
---	---	WAC 51-52-003 International Mechanical Code	References code This WAC needs to be amended to reflect 2018 code.	N	Y	12/20/2018 TAG recommends an amendment
---	---	WAC 51-52-004 Conflicts	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
---	---	WAC 51-52-007 Conflicts	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
---	---	WAC 51-52-008 Implementation	States adoption date. Needs amendment	N	Y	12/20/2018 TAG recommends an amendment
Chapter 1 Scope and Administration (AI Spaulding)						
	101.2	WAC 51-52-0101 Scope	This WAC needs an amendment to reference the 2017 version of NFPA 58	N	Y	12/20/2018 TAG recommends an amendment
	102.2	Applicability	New language - Pointer to the IEBC Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
105.2	105.2	Alternate materials <u>design and methods of construction and equipment</u>	New clarifying language to section title, no change to context. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Chapter 2 Definitions. (AI Spaulding)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	202	WAC 51-52-0202 General definitions	Keep the three existing definition amendments: Local exhaust; Permanent construction; and, Whole house ventilation system.	N	N	12/20/2018 TAG recommends keeping WAC unchanged
202	202	General definitions	Modified the definition for Commercial Cooking Appliances (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
202	202	General definitions	New definition for <u>Direct Solar System</u> . Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
202	202	General definitions	New definition for <u>Food-Grade Fluid</u> . Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
202	202	General definitions	Added the definition for High-volume, large-diameter Fan (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
202	202	General definitions	New definition for <u>Indirect Solar System</u> . Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
202	202	General definitions	New definition for <u>Low-Probability Pump</u> . Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
202	202	General definitions	Added the definition for Pollution-control unit (PCU) (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Chapter 3 General Regulations (Al Spaulding)						
	301	WAC 51-52-0301 General	There is no text Change to "Reserved"	N	Y	12/20/2018 TAG recommends modifying the WAC
303.9	N/A	Fireplaces in Group I-2, Condition 2 occupancies	Pointer to new section 901.4 – prohibits solid fuel burning fireplaces and appliances in group 1-2, condition 2 occupancies. This is consistent with Federal regulations. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	306.5	WAC 51-52-0306 Equipment and appliances on roofs or elevated structures	Our current amendment modifies the design criteria (for items 1-3) from the model code language for installed permanent ladders. No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	306.6	WAC 51-52-0306 Appliances above ceilings	Our current amendment is not covered by the model code language. No changes are recommended	N	Y	12/20/2018 TAG recommends amending the amendment to reconcile accessible with ready access and access to.
	307.2.3	WAC 51-52-0307 Auxiliary and secondary drain systems	Our current amendment excepts unducted fan coil units under certain conditions. No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	307.2.4.1	WAC 51-52-0307 Ductless mini-split system traps	Our current amendment allows condensate drainage in accordance with manufacturer's instructions. No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
Chapter 4 Ventilation (Vern Enns/Nancy Bernard)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	401.2	WAC 51-52-0401 Ventilation required	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	401.2.1	WAC 51-52-0401 Group R occupancies	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	401.2.2	WAC 51-52-0401 Ambulatory care facilities and Group I-2 occupancies	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	401.2.3	WAC 51-52-0401 All other occupancies	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	401.3	WAC 51-52-0401 When required	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	401.7	WAC 51-52-0401 Testing and balancing	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.1	WAC 51-52-0403 Ventilation system	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.2	WAC 51-52-0403 Outdoor air required	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.2.1	WAC 51-52-0403 Recirculation of air	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.3	WAC 51-52-0403 Outdoor air and local exhaust airflow rates	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	403.3.1.1	WAC 51-52-0403 Outdoor airflow rate	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.3.2	WAC 51-52-0403 Group R-2, R-3 and R-4 occupancies	This section is not adopted No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.3.2.1	WAC 51-52-0403 Outdoor air for dwelling units	This section is not adopted No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.3.2.2	WAC 51-52-0403 Outdoor air for other spaces	This section is not adopted No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.3.2.3	WAC 51-52-0403 Local exhaust	This section is not adopted No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
403.3.2.4		System controls	Labeling requirement addition (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	?	12/20/2018 TAG recommends no amendment but to verify change does not impact existing amendments
403.3.2.5	None	Venting equipment	Added new requirement for testing dwelling exhaust fans, (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	?	12/20/2018 TAG recommends no amendment but to verify change does not impact existing amendments
	403.8	WAC 51-52-0403 Ventilation systems for Group R occupancies	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.1	WAC 51-52-0403 Minimum ventilation performance	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	403.8.2	WAC 51-52-0403 Control and operation	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.3	WAC 51-52-0403 Outdoor air intake locations	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.4	WAC 51-52-0403 Local exhaust ventilation requirements	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.4.1	WAC 51-52-0403 Local exhaust systems	No changes are recommended	N	Y	12/20/2018 TAG recommends updating WAC references
	403.8.4.2	WAC 51-52-0403 Local exhaust fans	No changes are recommended	N	Y	12/20/2018 TAG recommends updating WAC references

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	403.8.5	WAC 51-52-0403 Whole house ventilation requirements	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.5.1	WAC 51-52-0403 Outdoor air	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.5.2	WAC 51-52-0403 Whole house supply system general requirements	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.6	WAC 51-52-0403 Whole house ventilation with exhaust fan systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.6.1	WAC 51-52-0403 Outdoor air	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	403.8.6.2	WAC 51-52-0403 Outside air intake locations	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.6.3	WAC 51-52-0403 Whole house exhaust system	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.6.4	WAC 51-52-0403 Whole house exhaust and transfer fans	No changes are recommended	N	N	12/20/2018 TAG recommends updating WAC references 403.3
	403.8.6.5	WAC 51-52-0403 Fan noise	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.7	WAC 51-52-0403 Whole house ventilation integrated with forced-air systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	403.8.7.1	WAC 51-52-0403 Outdoor air	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.7.2	WAC 51-52-0403 Whole house forced-air system	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.8	WAC 51-52-0403 Whole house ventilation with supply fan systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.8.1	WAC 51-52-0403 Outdoor air	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.8.2	WAC 51-52-0403 Whole house supply system	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	403.8.9	WAC 51-52-0403 Whole house ventilation with heat recovery or energy recovery ventilation systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.9.1	WAC 51-52-0403 Outdoor air	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.9.2	WAC 51-52-0403 Whole house heat recovery ventilator system	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.10	WAC 51-52-0403 Local exhaust ventilation and whole house ventilation alternate performance or design requirements.	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	403.8.11	WAC 51-52-0403 Alternate systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
404.1	404.2	Enclosed parking garages	Clarifies the intent with regard to "intermittent" operation. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
	404.4	WAC 51-52-0404 Automobile repair facilities	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	407.1	WAC 51-52-0407 General	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
Chapter 5 Exhaust Systems (Vern Enns/Nancy Bernard) (Linked with IRC Chapter 15)						
	501.3.1	WAC 51-52-0501 Location of exhaust outlets	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	501.4	WAC 51-52-0501 Pressure equalization	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Same	504.4	WAC 51-52-0504 Exhaust installation	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
504.4	Same	Exhaust installation	Addresses clothes dryer exhaust ducts (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
504.4.1	None	Exhaust termination outlet and passageway size	Addresses the required size of dryer exhaust duct terminals. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
504.8.2	Same	Duct installation	Addresses the installation of clothes dryer exhaust ducts in wall and ceiling cavities (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	Y	N	12/20/2018 TAG recommends no amendment
	504.10	WAC 51-52-0504 Common exhaust systems for clothes dryers located in multistory structures	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged 12/20/2018

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	505.1	WAC 51-52-0505 Domestic systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	506.3.9.1	WAC 51-52-0506 Grease duct horizontal cleanout	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	506.3.9.2	WAC 51-52-0506 Grease duct vertical cleanouts	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	506.3.11	WAC 51-52-0506 Grease duct enclosures	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
506.3.13.2	Same	Termination through an exterior wall	Clarifies clearance to openings to prevent other requirements from being overlooked (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
506.5.2	None	Pollution-control units	Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
	507.1.2	WAC 51-52-0507 Domestic cooking appliances used for commercial purposes	New language to for pollution control units which are installed in the grease exhaust system to extract smoke, grease particles and odors from the exhaust flow. (Deemed significant by ICC)	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	507.2	WAC 51-52-0507 Type I hoods	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
507.2.6	Same	Clearances for Type I hood	Added text to recognize Type I hoods that are listed for clearances to combustibles of less than 18 inches. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
	515.1	WAC 51-52-0515 General	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
507.6.1		Capture and containment test	Identifies testing method. Change seems reasonable. Recommend no amendment			12/20/2018 TAG recommends no amendment
Chapter 6 Duct Systems (Vern Enns/Nancy Bernard) (Linked with IRC Chapter 16)						
	601.2	WAC 51-52-0601 Air movement in egress elements	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	602.1	WAC 51-52-0602 General	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
602.2.1.8	None	Pipe and duct insulation within plenums	New text to address duct and pipe insulation in plenums. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
	603.5.1	WAC 51-52-0603 Gypsum ducts	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
603.5.2	None	Phenolic ducts	New text to address a newer type of non-metallic phenolic duct. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
603.8.2	Same	Sealing	Addresses testing of underground ducts, (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
603.9	Same	Joints, seams and connections	Less restrictive for snap- and button-lock duct joints that are located within the thermal envelope (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
	605.1	WAC 51-52-0605 General	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	605.4	WAC 51-52-0605 Particulate matter removal	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	606.2.1	WAC 51-52-0606 Return air systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
	606.2.2	WAC 51-52-0606 Common supply and return air systems	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
607.3.1	Same	Damper testing.	No changes are recommended	N	N	12/20/2018 TAG recommends no amendment
Chapter 7 Combustion Air (Tom Jensen)(Linked with IRC Chapter 17)						
Chapter 8 Chimneys and Vents (Grant Middleton) (Linked with IRC Chapter 18)						
Chapter 9 Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment (Ty Wasserman) (Linked with IRC Chapter 19)						

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901.4	None	General	Prohibited installation of solid fuel burning fireplaces in I2 condition 2 Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
916.1	None	Pool and Spa Heaters	Added UL & CSA listings for Pool and Spa heaters Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
	Section 928	WAC 51-52-0928 Evaporative cooling equipment	Blank Change to "Reserved"	N	Y	12/20/2018 TAG recommends modifying the WAC
929.1	None	General	Added coverage for HVLD fans. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Chapter 10 Boilers, Water Heaters and Pressure Vessels (Valerie Graber) (Linked with IRC Chapter 20)						
-	-	Informational Note	Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	1001.1	WAC 51-52-1000 Scope	No changes are recommended	N	N	12/20/2018 TAG recommends keeping WAC unchanged
Chapter 11 Refrigeration (Valerie Graber/Grant Middleton)						
1105.6.3	None	Ventilation rate	Normal ventilation for ammonia not given. Add text to section. (and the room conditions shall be) in accordance with IIAR2.	N	Y	12/20/2018 TAG recommends amending the WAC
Table 1106.5.2	None	Minimum Exhaust Rates	R143 not in table 1103.1. Change to (R143A).add the A	N	Y	12/20/2018 TAG recommends amending the WAC
1106.5.3	None	Emergency ventilation system discharge.	New section Add new section bar. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1106.6	1106.5	Remote controls.	Renumbering. Add section number change arrow. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

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1106.6.1	1106.5.1	Ref systems emergency shutoff.	Renumbering. Add section number change arrow. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1106.6.2	1106.5.2	Ventilation system.	Renumbering. Add section number change arrow.	N	N	12/20/2018 TAG recommends no amendment
1106.6	1106.7	Emergency signs and labels.	Code section number change. Add section number change arrow. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Same	1107.2	WAC 51-52-1107 Piping location	This section restricts all ref from exist access. Table 1104.3.2 allows A2 & B2 in exit access. Change WAC text to match changed language	N	Y	12/20/2018 TAG recommends deleting WAC
1107.2	Same	Piping location	Rewritten to clearly state the intent regarding the prohibited locations for refrigerant piping (Deemed significant by ICC) Strick out first line in table. In-exit access	N	N	12/20/2018 TAG recommends no amendment
Chapter 12 Hydronic Piping (Lawrence Palmer) (Linked with IRC Chapter 21)						

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1201.2	1201.2	Sizing.	<p>No ICC changes have been made to this section.</p> <p>Reviewer would like to state that the energy code also has requirements and restrictions on how the piping is sized.</p>	N	N	12/20/2018 TAG recommends no amendment
1202.4	1202.4	Piping materials standards.	<p>As deemed significant by the ICC, CSA B137.18 was added to the standards list for PE-RT pipe in Table 1202.4.</p> <p>This changes appears to be consistent with the standards listed in the IRC Table M2101.1 and M2105.4.</p> <p>Change seems reasonable.</p> <p>Recommend no amendment</p>	N	N	12/20/2018 TAG recommends no amendment
1202.5	1202.5	Pipe fittings.	<p>As deemed significant by the ICC, a good quantity of new standards have been added or existing standards revised (for copper, PE-RT, PEX and steel fittings) are listed in Table 1202.5.</p> <p>Beyond this change, I suggest that the standards listed in the IRC Tables M2101.1 & M2105.5 for PE-RT pipe and pipe fittings be reviewed for consistency with IMC Table 1202.5.</p>	N	?	12/20/2018 TAG recommends Lawrence does a consistency review and report back to the TAG

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.3	1203.3	Joint preparation and installation.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.3.3	1203.3.3	Soldered joints.	As deemed significant by the ICC, this section has been updated to require the procedure for making solder joints is in accordance with Standard ASTM B828. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.5	1203.7	Copper or copper-alloy pipe.	The ICC has removed language (formerly 1203.5 in the 2015 IMC) related to joints and fittings for brass pipe. I presume this paragraph was deemed unnecessary because there is other language formerly written into 2015 IMC, Section 1203.7 and currently written into 2018 IMC, Section 1203.5 related to brass pipe joints/fittings. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

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1203.6	1203.8	Copper or copper-alloy tubing.	<p>The word “press type” tubing has been updated to “press connect” tubing.</p> <p>Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code.</p> <p>The ICC has removed language (formerly 1203.6 in the 2015 IMC) related to joints and fittings for brass tubing. I presume this paragraph was deemed unnecessary because there is other language formerly written into 2015 IMC, Section 1203.8 and currently written into 2018 IMC, Section 1203.6 related to brass tubing joints/fittings.</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	12/20/2018 TAG recommends no amendment
1203.6.1	1203.8.1	Flared joints.	<p>Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code.</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.6.2	1203.8.2	Push-fit joints.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.6.3	1203.8.3	Press-connect joints.	The word "connect" has been added to clarify the method for press-connecting joints. Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.7	1203.9	CPVC plastic pipe.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.8	1203.10	Polybutylene plastic pipe and tubing.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.8.1	1203.10.1	Heat fusion joints.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.9	1203.11	Cross-linked polyethylene (PEX) plastic tubing.	The word 'and' has been changed to 'through' because more than two other sections now apply to joining PEX tubing. Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.9.1	1203.11.1	Compression-type fittings.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.9.2	1203.11.2	Plastic-to-metal connections.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.9.3	N/A	Push-fit joints.	This is a new section which did not exist in the 2015 IMC. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.10	1203.12	PVC plastic pipe.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.11	1203.13	Steel pipe.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.12	1203.14	Steel tubing.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.13	1203.15	Polypropylene (PP) plastic.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.13.1	1203.15.1	Heat-fusion joints.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.13.2	1203.15.2	Mechanical and compression sleeve joints.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.14	1203.16	Raised temperature polyethylene (PE-RT) plastic tubing.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.14.1	1203.16.1	Compression-type fittings.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.14.2	1203.16.2	PE-RT-to-metal connections.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.14.3	N/A	Push-fit joints.	This is a new section which did not exist in the 2015 IMC Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.15	1203.17	Polyethylene/aluminum/polyethylene (PE-ALPE) pressure pipe.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.15.1	1203.17.1	Compression-type fittings.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.15.2	1203.17.2	PE-AL-PE-to-metal connections.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1203.16	1203.18	Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pressure pipe.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.16.1	1203.18.1	Compression-type fittings.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1203.16.2	1203.18.2	PEX-AL-PEX-to-metal connections.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1205.1.6	1205.1.6	Expansion tanks.	<p>No ICC changes have been made to this section.</p> <p>The reviewer suggests that the piping systems can be damaged or personal injury if the expansion tank is accidentally shut off from the rest of the system. Perhaps the code can consider language which prevents this from happening such as a locking valve, removable handle or tag.</p> <p>SBCC Staff Note: This is a good topic for a statewide amendment proposal during the statewide amendment proposal submittal period.</p>	N	N	12/20/2018 TAG recommends no amendment
1208.1	1208.1	General.	<p>As deemed significant by the ICC, an exception for testing PEX piping systems with a compressed gas has been added to this section. This section is updated in coordination with IRC M2101.10 approved language.</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	12/20/2018 TAG recommends no amendment
1209.3	1209.3	Embedded joints.	<p>Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code.</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1209.3.3	1209.3.3	Polybutylene joints.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1209.3.5	N/A	Cross-linked polyethylene (PEX) joints.	This is a new section which did not exist in the 2015 IMC Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1209.5	1209.5	Thermal barrier required.	<p>The word 'through' has been changed to 'and' because only two other sections may apply to thermal barriers.</p> <p>Based on this change, the reviewer notes that Section 1209.5.1 relates to a 'thermal break' not a 'thermal barrier'. Hence, it must be questioned if this language is a bit confusing by calling out 1209.5.1 instead of just 1209.5.2 as it relates to thermal barriers and not thermal breaks. If there is a relation, then the language in 1209.5 should be updated to clearly address both.</p> <p>This section now incorporates requirements for R-values of slab-on-grade and suspended floors. It more correctly refers the user of the code to the IECC.</p> <p>Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code.</p>	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1209.5.1	1209.5.3	Thermal break required.	WAC 51-52-1200 2015 IMC 1209.5.1 Slab-on-grade installation is being addressed by the 2018 IMC in 1209.5 (and refers to the IECC) for slab-on-grade insulation requirements. WAC 51-52-1200 must now be updated to refer to 1209.5 instead of 1209.5.1.	N	N	12/20/2018 TAG recommends no amendment
	1209.5.1	WAC 51-52-1200 Slab-on-grade installation	Recommend amending WAC to correlate with 2018 code changes	N	Y	12/20/2018 TAG recommends an amendment to the WAC and put "Barrier" first. Work with Lawrence
1209.5.2	1209.5.4	Thermal barrier material marking.	2015 IMC 1209.5.2 Suspended floor installation is being addressed by the 2018 IMC in 1209.5 (and refers to the IECC) for suspended floor insulation requirements. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1210.4	1210.4	Piping and tubing material standards.	<p>As deemed significant by the ICC, new standards have been added or existing standards revised (for PE-RT, PEX and PP-R) pipe listed in Table 1210.4.</p> <p>Reviewer notes that these standards appear to be consistent with those listed in the IRC Tables M2105.4, M2105.5.</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	12/20/2018 TAG recommends no amendment
1210.5	1210.5	Fittings.	<p>As deemed significant by the ICC, new standards have been added or existing standards revised (for PE-RT and PP-R) pipe fittings listed in Table 1210.5.</p> <p>Reviewer notes that these standards appear to be consistent with those listed in the IRC Tables M2105.4, M2105.5.</p> <p>Beyond this change, I suggest that the standards listed in the IRC Table M2105.5 for PE-RT pipe fittings be reviewed for consistency with IMC Table 1210.5. There seems to be more standards listed in IRC Table M2105.5.</p>	?	?	12/20/2018 TAG recommends Lawrence does a consistency review and report back to the TAG

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1210.6.3	1210.6.3	Joint preparation and installation.	Section number call-outs have been changed in coordination with revised section numbers elsewhere in this code. Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Same	1210.7.6	WAC 51-52-1200 Expansion tanks	No ICC changes have been made to this section. <i>The reviewer suggests that the piping systems can be damaged or personal injury if the expansion tank is accidently shut off from the rest of the system. Perhaps the code can consider language which prevents this from happening such as a locking valve, removable handle or tag.</i>	N	N	12/20/2018 TAG recommends no changes to this WAC
Chapter 13 Fuel Oil Piping and Storage (Eric Vander Mey)						
1303.1.1	1303.1.1	Joints between different piping materials	Change term to “copper-alloy converter fittings” from “brass converter fittings” Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
N/A	1303.4	Brass pipe	Section 1303.4 removed from 2018 IMC Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
N/A	1303.5	Brass tubing	Section 1303.5 removed from 2018 IMC Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
1303.6 to 1303.11	1303.8 to 1303.9	Piping materials	Sections renumbered based on removal of two sections above Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Chapter 14 Solar Thermal Systems (Al Spaulding) (Linked with IRC Chapter 23)						
1401.1	Same	Scope	Rewritten for consistence with current technology. (Deemed significant by ICC)			
1401.4	Same	Solar thermal equipment and appliances	Rewritten for consistence with current technology. (Deemed significant by ICC)			
1401.4.1	None	Collectors and panels	New text (Deemed significant by ICC)			
1402.1	None	General	New text (Deemed significant by ICC)			

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
1402.2	1402.1	Access	Rewritten for consistence with current technology. (Deemed significant by ICC)			
Chapter 15 Referenced Standards (SBCC Staff)						
	Chapter 15	WAC 51-52-1500 Referenced standards	Added ASHRAE 62.2- 2013 2016? Not addressed in the 2018 Code Recommend keeping the amendment	N	Y	12/20/2018 TAG recommends an amendment to the WAC

International Fuel Gas Code (WAC 51-51-007) (Linked with IRC Chapter 24)

Chapter 1 Scope and Administration (SBCC Staff)						
	International Fuel Gas Code	WAC 51-52-2100	Blank Change to "Reserved"	N	Y	12/20/2018 TAG recommends modifying this WAC
	101.2	WAC 51-52-21101 Scope	No changes in the 2018 Code Recommend keeping the amendment	N	N	12/20/2018 TAG recommends no changes to this WAC

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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Chapter 2 Definitions (SBCC Staff)

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Chapter 3 General Regulations (SBCC Staff)

303.3	Same	Prohibited locations	A new option was added to allow a gas-fired clothes dryer to be installed in a toilet room or bathroom (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
310.2	310.1.1	CSST (Corrugated stainless steel tubing)	Section 310.2 previously applied to all CSST products but is now restricted to only the traditional yellow jacketed CSST product. A new Section 310.3 was added to address the arc-resistant CSST products. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	Y	N	12/20/2018 TAG recommends no amendment
310.2.3	Same	Bonding jumper length	Clarifies the purpose of any "additional grounding electrodes." (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	Y	N	12/20/2018 TAG recommends no amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
310.3	None	Arc-resistant CSST	Section 310.2 previously applied to all CSST products but is now restricted to only the traditional yellow jacketed CSST product. A new Section 310.3 was added to address the arc-resistant CSST products. (Deemed significant by ICC) Change seems reasonable. Recommend no amendment	N	N	12/20/2018 TAG recommends no amendment
Chapter 4 Gas Piping Installations (Vern Enns)						
	Chapter 4	WAC 51-52-21401 Gas piping installations	Blank Change to "Reserved"	N	Y	
403.4.2	Same	Steel	Now allows Schedule 10 steel pipe for gas service. (Deemed significant by ICC)			
403.10.1	Same	Pipe Joints	Now allows Schedule 10 steel pipe for gas service. (Deemed significant by ICC)			
404.11	Same	Protection against corrosion	Rewritten for clarity and to include three distinct prescriptive methods for corrosion protection for steel pipe. (Deemed significant by ICC)			

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
404.14	Same	Piping underground beneath buildings	A listed encasement system instead of a conduit encasement is recognized where plastic piping is installed. (Deemed significant by ICC)			
409.5.1	Same	Located within same room	For shutoff valves installed behind movable appliances, the required access is provided by moving the appliance. (Deemed significant by ICC)			
409.7	None	Shutoff valves in tubing systems	New text addresses shutoff valve support for tub-ing systems (Deemed significant by ICC)			
410.2	Same	MP regulators	Provides new alternative to the required pressure tap fitting downstream of a medium pressure regulator. (Deemed significant by ICC)			
Chapter 5 Chimneys and Vents (Vern Enns)						
503.4.1	Same	Plastic piping	The standard for plastic piping venting materials must be listed is addressed (Deemed significant by ICC)			

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
503.8	Same	Venting system termination location	Information reformatted into a table and a new category for direct-vent appliances with a higher Btu/hr inputs that are more consistent with nonresidential appliances. (Deemed significant by ICC)			
Chapter 6 Specific Appliances (Vern Enns)						
	Chapter 6	WAC 51-52-21601 Specific appliances	Blank Change to "Reserved"	N	Y	
Chapter 7 Gaseous Hydrogen Systems (Vern Enns)						
Chapter 8 Reference Standards (SBCC Staff)						

National Fuel Gas Code (ANSI Z223.1/NFPA 54) (RCW 19.27.031(2))

Chapter 1 Administration (SBCC Staff)
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2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	National Fuel Gas Code	WAC 51-52-22000	Blank Change to "Reserved"	N	Y	12/20/2018 TAG recommends modifying this WAC
Chapter 2 Referenced Publications (SBCC Staff)						
Chapter 3 Definitions (SBCC Staff)						
Chapter 4 General (SBCC Staff)						
Chapter 5 Gas Piping System Design, Materials, and Components (SBCC Staff)						
Chapter 6 Pipe Sizing (SBCC Staff)						
	Chapter 6	WAC 51-52-22006 Gas piping installation	Blank Change to "Reserved"	N	Y	12/20/2018 TAG recommends modifying this WAC

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 7 Gas Piping Installation (SBCC Staff)						
Chapter 8 Inspection, Testing, and Purging (SBCC Staff)						
Chapter 9 Appliance, Equipment, and Accessory Installation (SBCC Staff)						
Chapter 10 Installation of Specific Appliances (SBCC Staff)						
Chapter 11 Procedures to Be Followed to Place Appliance in Operation (SBCC Staff)						
Chapter 12 Venting of Appliances (SBCC Staff)						
Chapter 13 Sizing of Category I Venting (SBCC Staff)						

NFPA 58 (Storage and Handling of Liquefied Petroleum Gases) (RCW 19.27.031(2))

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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Chapter 1 Administration (Al Spaulding)						
Chapter 2 Referenced Publications (Al Spaulding)						
Chapter 3 Definitions (Al Spaulding)						
Chapter 4 General Requirements (Al Spaulding)						
Chapter 5 LP-Gas Equipment and Appliances (Al Spaulding)						
Chapter 6 Installation of LP-Gas Systems (SBCC Staff)						
	Chapter 6	WAC 51-52-22006 Gas piping installation	Blank Change to "Reserved"		Y	12/20/2018 TAG recommends modifying this WAC

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 7 LP-Gas Liquid Transfer (SBCC Staff)						
Chapter 8 Storage of Cylinders Awaiting Use, Resale, or Exchange (SBCC Staff)						
Chapter 9 Vehicular Transportation of LP-Gas (SBCC Staff)						
Chapter 10 Buildings or Structures Housing LP-Gas Distribution Facilities (SBCC Staff)						
Chapter 11 Engine Fuel Systems (SBCC Staff)						
Chapter 12 Refrigerated Containers (SBCC Staff)						
Chapter 13 Marine Shipping and Receiving (SBCC Staff)						
Chapter 14 Operations and Maintenance (SBCC Staff)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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Chapter 15 Pipe and Tubing Sizing Tables (SBCC Staff)						

International Residential Code

IRC Chapter 12 Mechanical Administration (Ty Wasserman)						
	M1201.1	WAC 51-51-1201 Scope				
	M1201.3	WAC 51-51-1201 Construction documents				
	M1201.4	WAC 51-51-1201 Testing				
IRC Chapter 13 General Mechanical System Requirements (Ty Wasserman)						
	M1301.2	WAC 51-51-1301 Identification				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
None	M1305.1.1	Furnaces and air handlers	The appliance access and clearance requirements for furnaces in compartments have been removed from the code in favor of other code provisions and the manufacturer's instructions. (Considered a significant change by ICC)			
M1305.1.3.2	M1305.1.4.2	Excavations Pit locations	The requirements for appliance installation in pits has been expanded to provide more detail and to be similar to language found in other ICC codes. The minimum bottom clearance has been reduced from 6 inches to 3 inches. (Considered a significant change by ICC)			
	M1307.2	WAC 51-51-1307 Anchorage of appliances				
IRC Chapter 14 Heating and Cooling Equipment and Appliances (Ty Wasserman)						
	M1413.1	WAC 51-51-1413 General				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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IRC Chapter 15 Exhaust Systems (Vern Enns/Nancy Bernard) (Linked with IMC Chapter 5)						
M1502.3.1	None	Exhaust termination outlet and passageway size.	A minimum area of 12.5 square inches has been established for the terminal outlet of dryer duct exhaust. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
M1502.4.2	Same	Duct installation	Wall and ceiling cavities enclosing dryer exhaust ducts must provide sufficient space that the 4-inch duct is not squeezed out of its round shape. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
SECTION M1503	Same	RANGE HOODS DOMESTIC COOKING EXHAUST EQUIPMENT	“Domestic cooking exhaust equipment” is the preferred terminology for “kitchen exhaust” because it is more descriptive and includes all of the components of the exhaust system. Addresses M1503.1, M1503.2, M1503.3, M1504.4, eliminates Section M1504 and eliminates Section M1505. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
M1503.6	M1503.4	Makeup air required	Makeup air for domestic cooking exhaust systems is no longer required if all fuel-burning appliances in the dwelling unit have a direct vent or mechanical draft vent system (Considered a significant change by ICC)	N	N	
	M1505.1	WAC 51-51-1505 General	No changes are recommended	N	N	
	M1507.1	WAC 51-51-1507 General	No changes are recommended	N	N	
	M1507.2	WAC 51-51-1507 Recirculation of air	No changes are recommended	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M1507.3	WAC 51-51-1507 Whole-house mechanical ventilation system	No changes are recommended	N	N	
	M1507.3.1	WAC 51-51-1507 System design	No changes are recommended	N	N	
	M1507.3.2	WAC 51-51-1507 Control and operation	No changes are recommended	N	N	
	M1507.3.2 .1	WAC 51-51-1507 Operating instructions	No changes are recommended	N	N	
	M1507.3.3	WAC 51-51-1507 Mechanical ventilation rate	No changes are recommended	N	N	
	Table M1507.3.3 (1)	WAC 51-51-1507 Continuous Whole-House Mechanical Ventilation System Airflow Rate Requirements	No changes are recommended	N	N	
	Table M1507.3.3 (2)	WAC 51-51-1507 Intermittent Whole-House Mechanical Ventilation Rate Factors	No changes are recommended	N	N	
	M1507.3.4	WAC 51-51-1507 Whole-house ventilation using exhaust fans	No changes are recommended	N	N	
	M1507.3.4 .1	WAC 51-51-1507 Whole-house ventilation fans	No changes are recommended	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M1507.3.4 .2	WAC 51-51-1507 Fan noise	No changes are recommended	N	N	
	M1507.3.4 .3	WAC 51-51-1507 Fan controls	No changes are recommended	N	N	
	M1507.3.4 .4	WAC 51-51-1507 Ventilation openings	No changes are recommended	N	N	
	M1507.3.5	WAC 51-51-1507 Whole-house ventilation integrated with a forced-air system	No changes are recommended	N	N	
	M1507.3.5 .1	WAC 51-51-1507 Integrated whole-house ventilation systems	No changes are recommended	N	N	
	M1507.3.5 .2	WAC 51-51-1507 Ventilation duct insulation	No changes are recommended	N	N	
	M1507.3.5 .3	WAC 51-51-1507 Outdoor air inlets	No changes are recommended	N	N	
	M1507.3.6	WAC 51-51-1507 Whole-house ventilation using a supply fan	No changes are recommended	N	N	
	M1507.3.6 .1	WAC 51-51-1507 Outdoor air	No changes are recommended	N	N	
	M1507.3.6 .2	WAC 51-51-1507 Ducts	No changes are recommended	N	N	
	Table M1507.3.6 .2	WAC 51-51-1507 Prescriptive Supply Fan Duct Sizing	No changes are recommended	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M1507.3.6 .3	WAC 51-51-1507 Dampers	No changes are recommended	N	N	
	M1507.3.6 .4	WAC 51-51-1507 Ventilation duct insulation	No changes are recommended	N	N	
	M1507.3.6 .5	WAC 51-51-1507 Outdoor air inlets	No changes are recommended	N	N	
	M1507.3.7	WAC 51-51-1507 Whole-house ventilation using a heat recovery ventilation system	No changes are recommended	N	N	
	M1507.3.7 .1	WAC 51-51-1507 Heat recovery ventilation systems	No changes are recommended	N	N	
	M1507.3.7 .2	WAC 51-51-1507 Ventilation duct insulation	No changes are recommended	N	N	
	M1507.3.7 .3	WAC 51-51-1507 Outdoor air inlets	No changes are recommended	N	N	
	M1507.4	WAC 51-51-1507 Local exhaust	No changes are recommended	N	N	
	Table M1507.4	WAC 51-51-1507 Minimum Required Local Exhaust Rates For One- and Two-Family Dwellings	No changes are recommended	N	N	
	M1507.4.1	WAC 51-51-1507 Local exhaust fans	No changes are recommended	N	N	
	M1507.4.2	WAC 51-51-1507 Local exhaust controls	No changes are recommended	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
IRC Chapter 16 Duct Systems (Vern Enns/Nancy Bernard) (Linked with IMC Chapter 6)						
	M1601.1.1	WAC 51-51-1600 Above-ground duct systems	No changes are recommended	N	N	
M1601.1.2	Same	Underground duct systems	Underground ducts, including both direct-burial ducts and those encased in concrete, require sealing and testing (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
IRC Chapter 17 Combustion Air (Tom Jensen) (Linked with IMC Chapter 7)						
	M1701.1	WAC 51-51-1700 Scope				
IRC Chapter 18 Chimneys and Vents (Grant Middleton)(Linked with IMC Chapter 8)						
IRC Chapter 19 Special Appliances, Equipment and Systems (Ty Wasserman) (Linked with IMC Chapter 9)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
SECTION M1901	Same	RANGES AND OVENS	The provisions for reduced clearances above above cooking surfaces have been clarified. The listing requirement for microwave ovens has been added to Section M1901 (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
IRC Chapter 20 Boilers and Water Heaters (Valerie Graber) (Linked with IMC Chapter 10)						
-	-	Informational Note	70.79 RCW and chapter 296.104 WAC	N	N	
	M2005.1	WAC 51-51-2000 General	Chapter 5 - State plumbing code. No changes are recommended	N	N	
IRC Chapter 21 Hydronic Piping (Lawrence Palmer) (Linked with IMC Chapter 12)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Table M2101.1		Hydronic Piping Materials	<p>Changed the table heading to include “fitting” materials.</p> <p>Added reference to standard CSA B137.18 for PE-RT piping.</p> <p>Added reference to standards ASTM D3261 and CSA B137.18 for PE-RT fittings.</p> <p>Added reference to standard ASME B16.51 for copper tubing.</p> <p>Added “press-connected” type of joint to the joints category.</p> <p>Deleted reference to standard F 877 for Cross-linked polyethylene (PEX).</p> <p>Deleted the row in this table for brass pipe.</p> <p>Deleted the row in the table for brass tubing.</p> <p>In the row for copper pipe material, ‘copper alloy’ pipe was added.</p>	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
			<p>Added reference to standard ASTM B43 for copper & copper alloy pipe.</p> <p>Added reference to standard ASTM B135 for copper & copper alloy tubing.</p> <p>Added the requirement that joints embedded in concrete 'shall be brazed'.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable. Recommend no amendment</p>			
	M2101.3	WAC 51-51-2101 Protection of potable water				
M2101.3		Piping Joints	<p>Added brazed, press-connected to the joint types. Specifies press-connect in accordance with ASME B16.51.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	
	M2101.7	WAC 51-51-2101 Prohibited tee applications				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Table M2101.9	Same	Hanger Spacing Intervals	Support spacing requirements for PEX tubing 1. inches and greater in diameter have been added to Table M2101.9 (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
M2101.10	Same	Tests.	Compressed air testing of PEX hydronic piping is now allowed when testing is in accordance with the manufacturer's instructions. Testing no more than 20 minutes has been struck out. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M2103.2	Same	Thermal barrier required	<p>For hydronic floor heating systems, the minimum insulation R-values have been removed from Section M2103.2 and a reference to the energy provisions of Chapter 11 has been added.</p> <p>Reviewer notes: This section refers to Chapter 11, but please clarify what document Chapter 11 is part of.</p> <p>Reviewer notes: Please clarify what the difference is between a 'thermal break' and a 'thermal' barrier', i.e. thermal barrier is the insulation below the heated slab while a thermal break is the insulation between the slab edge and the foundation wall.</p> <p>M2103.2.1 has been struck out</p> <p>(Considered a significant change by ICC)</p>	N	?	
	M2103.3	WAC 51-51-2103 Piping joints				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Table M2105.4		Ground-Source Loop Pipe	<p>Added a reference to standard CSA B137.18 for PE-RT pipe.</p> <p>Added a reference standard NSF 358.2</p> <p>Deleted reference to standard ASTM F 877 for Cross-linked polyethylene (PEX) pipe.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	
Table M2105.5		Ground-Source Loop Pipe Fittings	<p>Added a reference standard NSF 358.2</p> <p>Added reference to standards ASTM F 2769, CSA B137.1, ASTM F1055, ASTM F2098, ASTM F2735, ASTM D2633, ASTM D3261, CSA B137.18 for PE-RT fittings.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable. Recommend no amendment</p>	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M2105.9	WAC 51-51-2105 CPVC plastic pipe				
M2105.13		Raised temperature polyethylene (PE-RT) plastic tubing.	Added reference to other sections in this code including M2105.13.3 and M2105.13.4. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
M2105.13.3		Heat fusion joints.	This is a new section which specifies joining method, reference standard, means and methods for making heat fusion joints. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
M2105.13.4		Electrofusion joints.	This is a new section which specifies joining method, reference standard, means and methods for making electrofusion joints. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M2105.14	WAC 51-51-2105 PVC plastic pipe				
	M2105.18	WAC 51-51-2105 Protection of potable water				
	M2105.19	WAC 51-51-2105 Pipe penetrations				
IRC Chapter 22 Special Piping and Storage Systems (Eric Vander Mey)						
IRC Chapter 23 Solar Thermal Energy Systems (Al Spaulding) (Linked with IMC Chapter 14)						
M2301.2.1	Same	Access.	The requirements for access and freeze protection related to solar thermal energy systems have been expanded to provide detailed guidance to the code user. (Considered a significant change by ICC)			

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M2301.2.3	WAC 51-51-2300 Pressure and temperature relief valves and system components				
	M2301.2.5	WAC 51-51-2300 Piping insulation				
M2301.2.6	Same	Protection from freezing	The requirements for access and freeze protection related to solar thermal energy systems have been expanded to provide detailed guidance to the code user. (Considered a significant change by ICC)			
	M2301.4	WAC 51-51-2300 Heat transfer gasses or liquids and heat exchangers				
	M2301.7	WAC 51-51-2300 Solar thermal systems for heating potable water				
	M2301.7.1	WAC 51-51-2300 Indirect systems				
	M2301.7.2	WAC 51-51-2300 Direct systems				

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
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IRC Chapter 24 Fuel Gas (Vern Enns/SBCC Staff) (Linked with IFGC)						
G2406.2 (303.3)	Same	Prohibited locations	A gas-fired clothes dryer is now allowed to be installed in a bathroom or toilet room where a permanent opening communicates with other permitted spaces. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
G2411.2 (310.2)	G2411.1.1 (310.1.1.1)	CSST.	The existing provisions for electrical bonding apply to CSST without an arc-resistant jacket or coating and a new section addresses electrical continuity and bonding of arc-resistant CSST (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
G2411.3 (310.3)	None	Arc-resistant CSST	The existing provisions for electrical bonding apply to CSST without an arc-resistant jacket or coating and a new section addresses electrical continuity and bonding of arc-resistant CSST (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
G2414.4.2 (403.4.2)	Same	Steel.	The code now allows Schedule 10 steel pipe to be used for fuel-gas piping. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
G2414.10.1 (403.10.1)	Same	Pipe joints	The code now allows Schedule 10 steel pipe to be used for fuel-gas piping. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
G2415.11 (404.11)	Same	Protection against Corrosion	<p>Reorganization of this section includes new provisions to address corrosion protection of underground steel gas piping and protection for steel risers other than anodeless risers.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable.</p> <p>Recommend no amendment</p>	N	N	
G2420.5.1 (409.5.1)	Same	Located within same room	<p>Shutoff valves located behind movable appliances are considered as meeting the requirement for access.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable.</p> <p>Recommend no amendment</p>	N	N	
G2420.6	None	Shutoff valves in tubing systems	<p>Shutoff valves in gas tubing systems require rigid support separate from the tubing to prevent damage at the valve connection.</p> <p>(Considered a significant change by ICC)</p> <p>Change seems reasonable.</p> <p>Recommend no amendment</p>	N	N	

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
None	G2442.2 (618.2)	Forced-air furnaces	The prescriptive duct size requirements for forced-air furnaces have been deleted in favor of other sizing methods specific to the appliance. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	
G2447.2 (623.2)	Same	Prohibited location	Commercial cooking appliances are now permitted in dwelling units when installed in accordance with an engineered design and the manufacturer's instructions. (Considered a significant change by ICC) Change seems reasonable. Recommend no amendment	N	N	