



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

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2018 INTERNATIONAL RESIDENTIAL CODE TECHNICAL ADVISORY MEETING MINUTES

DRAFT

LOCATION: DES Building – Rm 2322
1500 Jefferson St. SE
Olympia, WA 98504

MEETING DATE: Wednesday January 18, 2019

Members in Attendance: Angela Haupt, Tim Woodard, Ron Perkerewicz, Todd Short, Michelle Yee

Members Absent: Jim Tinner, TAG Chair, David Spence, Al Audette, Willie Hill

Staff in Attendance: Richard Brown

Visitors Present: Brian with the City of Bellevue, Mike Lubliner

Agenda Items	TAG/Staff Actions/Discussion
1. Welcome and Introductions	Meeting called to order at 10:24 a.m. by Richard Brown. Everyone was welcomed and roll was taken.
2. Review & Approve Agenda	The agenda was approved as written.
3. Review and Approve December 12, 2018 Minutes	The minutes were approved as written
4. Review Results From Tasks Assigned at October 31 st Meeting	See the attached Review Worksheet.
5. Other Business	The Council voted to appoint Dian Glenn IRC TAG Chairman and thanked Jim Tinner for all his great work.
6. Adjourn	The meeting was adjourned at 11:03 a.m.

Attachments: 2018 IRC Review Worksheet

**Washington State Building Code Council • Code Change Cycle 2018 Group 2
2018 International Residential Code Review TAG Worksheet
TAG PROPOSED CHANGES - FINAL**

International Residential Code (RCW 19.27.031(1)(b))

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)						
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Chapter 1 Scope and Administration (Kim Flanary, Willie Hill)						
Same	R101	WAC 51-51-01010 Scope	Need to reconcile changes with 2018 Code with WAC. On 11/14/2018 the TAG recommended keeping the WAC unchanged, however, SBCC staff is asking for another look.	N	Y	12/12/2018 TAG recommends an amendment
Chapter 2 Definitions. (Kim Flanary, Willie Hill)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Same	R202	WAC 51-51-0202 Definitions	ADULT FAMILY HOME AIR-IMPERMEABLE INSULATION. (Omit This is addressed in the 2018 Code) ATTIC, HABITABLE. CHILD CARE, FAMILY HOME. CHILD DAY CARE, CONDITIONED SPACE. DWELLING UNIT. FIRE SEPARATION DISTANCE. MEZZANINE, LOFT. SALT WATER COASTAL AREA. SMALL BUSINESS. WHOLE HOUSE VENTILATION SYSTEM.	N	Y	11/14/2018 TAG recommends no amendment but asked staff to verify. An amendment is needed to omit one definition. 12/12/2018 TAG recommends amendment
Chapter 3 Building Planning (Jim Tinner, Al Audette)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	R301	WAC 51-51-0301 Design Criteria	R301.2 Climatic and geographic design criteria. R301.2.2.3.1 Height limitations. R301.5 Live load. Need to maintain the state amendment regarding 60 PSF deck live loads	N	Y	11/14/2018 TAG Requested that the Residential Energy Code TAG review R301.2, Strike the amendment regarding R301.2.2.3.1 because it is addressed in the 2018 Code and retain the amendment for R301.5 12/12/2018 TAG recommends acceptance of amendment changes

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	R302	WAC 51-51-0302 Fire-resistant construction	R302.1 Exterior walls (Addressed in 2018 IRC) R302.2 Townhouses. (Addressed in 2018 IRC) R302.2.1 Continuity. R302.2.4 Structural independence R302.3.1 Supporting construction R302.13 Fire protection of floors	N	Y	11/14/2018 TAG recommends keeping the RCW but eliminating R302.1 and R302.2 12/12/2018 TAG tabled review of this section 1/18/2019 TAG approved amendment
	R308	WAC 51-51-0308 Glazing	R308.4.4 Glazing in guards and railings. R308.4.4.1 Structural glass baluster panels. Addressed in 2018 Code	N	Y	11/14/2018 TAG recommends eliminating the RCW 12/12/2018 TAG recommends amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	R324	WAC 51-51-03240 Solar energy systems	R324.1 General. (Addressed in 2018) R324.2 Solar thermal systems. (Addressed in 2018) R324.3.1 Equipment listing (Addressed in 2018) R324.4 Rooftop-mounted photovoltaic systems (Retain Amendment) R324.4.1 Roof load. (Addressed in 2018) R324.4.2 Wind resistance (Addressed in 2018) R324.5 Building-integrated photovoltaic systems (Addressed in 2018) R324.5.1 Photovoltaic shingles. (Retain Amendment) R324.6 Ground-mounted photovoltaic systems. (Addressed in 2018) R324.7 Access and Pathways (Retain amendment but renumber to R324.6)	N	Y	11/14/2018 TAG recommends modifying the RCW as noted to the left 12/12/2018 TAG recommends amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	R325	WAC 51-51-0325 Adult family homes	R325.1 General. R325.3 Sleeping room classification. R325.4 Types of locking devices and door activation. R325.5 Smoke and carbon monoxide alarm requirements. R325.6 Escape windows and doors. R325.7 Fire apparatus access roads and water supply for fire protection. R325.8 Grab bar general requirements. R325.8.1 Grab bar cross section. R325.8.2 Grab bar installation. R325.8.3 Grab bars at water closets. R325.8.3.1 Fixed position grab bars. R325.8.3.2 Swing-up grab bars. R325.8.4 Grab bars at bathtubs. R325.8.4.1 Vertical grab bars. R325.8.4.2 Horizontal grab bars. R325.8.5 Grab bars at shower stalls. R325.8.5.1 Vertical grab bars. R325.8.5.2 Horizontal grab bars. R325.9 Ramps. R325.9.1 Handrails for ramps. R325.10 Stair treads and risers.	N	Y	11/14/2018 TAG recommends keeping the RCW but modifying it to match the revised numbering 12/12/2018 TAG tabled review of this section 1/18/2019 TAG recommends amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
			R325.10.1 Handrails for treads and risers. R325.11 Shower stalls. Recommend retaining state amendment and renumbering to R330			
R329	R326	WAC 51-50-0326 Family home child care	R326 Family home child care.	N	Y	11/14/2018 TAG recommends keeping the RCW but modifying it to match the revised numbering 12/12/2018 TAG tabled review of this section 1/18/2019 TAG recommends amendment

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
R330	R327	WAC 51-51-0327 Protection against radon	R327.1 Protection Against Radon.	N	Y	11/14/2018 TAG recommends keeping the RCW unchanged Staff noticed the need for number changes. 1/18/2019 TAG recommends amendment
	R328	WAC 51-51-0328 Mezzanines	R328.1 General. R328.2 Mezzanines. R328.3 Area limitation R328.4 Means of egress. R328.5 Openness This changed last code cycle and got missed. Recommend delete amendment. Also note that habitable attics are now included in mezzanine portion of the IRC	N	Y	11/14/2018 TAG recommends eliminating the RCW
	R329	WAC 51-51-0329 Swimming pools, spas, and hot tubs	R329.1 General. Only adopt the barrier portions - Renumber state amendment. Defer to Plumbing TAG	N	Y	11/14/2018 TAG recommends modifying the RCW as noted to the left.

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 4 Foundations (Willie Hill)						
Chapter 5 Floors (Michelle Yee, Tim Woodard)						
R507.9.2	R507.2.4	WAC 51-51-0507 Deck lateral load connections	State amendment needed to section 507.9.2 of 2018 for exemption for decks under 30 inches. Recommend only carrying forward the exception. State amendment needed for foot note "e" to Table R507.9.1.3(2). Recommend carrying forward all of existing R507.2.1 of State Amendment and replacing the new table R507.9.1.3(2) TW Other impacts noted during 12/12/2018 meeting. Look at charging language.	N	Y	12/5/2018 TAG recommends an amendment to the amendment 12/12/2018 TAG tabled review of this section 1/18/2019 TAG recommends eliminating amendment
Chapter 6 Wall Construction (Kim Flanary)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Same	R602.7.5	WAC 51-51-0602 Supports for headers	This section is not adopted Recommend omitting the amendment and adopting the 2018 changes. See directly below.	N	Y	12/5/2018 TAG asked staff to prepare a position statement 12/12/2018 TAG recommends acceptance of amendment changes
R602.10.10	R602.10.11	WAC 51-51-0602 Cripple wall bracing	Change not addressed in 2018 code. Modify amendment to reflect renumbering in 2018	N	Y	12/5/2018 TAG recommends modifying the amendment 12/12/2018 TAG recommends acceptance of amendment changes
Chapter 7 Wall Covering (Jim Tinner)						
Chapter 8 Roof-ceiling Construction (Michelle Yee)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 9 Roof Assemblies (Tim Woodard)						
Chapter 10 Chimneys and Fireplaces (SBCC Staff)						
	R1006	WAC 51-51-1006 Exterior air supply	Amendment was not addressed by the 2018 IRC. Recommend addressing numbering conflict by renumbering amendment R1006.2 to R1006 .6	N	Y	11/14/2018 TAG recommends keeping WAC but revising numbering
Chapter 11 Not adopted per WAC 51-51-003)						
Chapter 12 Mechanical Administration (IMC TAG)						
	M1201.1	WAC 51-51-1201 Scope		N	Y	1/8/2019 TAG recommends modifying this WAC
Chapter 13 General Mechanical System Requirements (IMC TAG)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Chapter 14 Heating and Cooling Equipment and Appliances (IMC TAG)						
Chapter 15 Exhaust Systems (IMC TAG)						
	M1505.1	WAC 51-51-1505 General	The amendment calls out thickness and clearances. Renumber Look into mfg req	N	Y	1/8/2019 TAG recommends modifying this WAC
M1505.1	M1507.1	WAC 51-51-1507 General	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.2	M1507.2	WAC 51-51-1507 Recirculation of air	Recommend change amendment to require all hood exhausts to always discharge to out of doors, similar to toilet exhaust Note: 1/8/2019 TAG did not support this change at this time.	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3	M1507.3	WAC 51-51-1507 Whole-house mechanical ventilation system	Code change is to get better confirmation that the equipment installed will actually perform. By gaining a certification label, the fan equipment will have shown capable of meeting a standard of performance. Change amendment to include the new reference standard numbers	Y	Y	1/8/2019 TAG recommends modifying this WAC
M1505.3.1	M1507.3.1	WAC 51-51-1507 System design	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.2	M1507.3.2	WAC 51-51-1507 Control and operation	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.2.1	M1507.3.2.1	WAC 51-51-1507 Operating instructions	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3.3	M1507.3.3	WAC 51-51-1507 Mechanical ventilation rate	No problem with the code change to give more direction on quantity of air for the mechanical ventilation rate. The code change table values are same as 1507.3.3 (1) and are from ASHRAE 62.2-2010	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
Table M1505.3.3(1)	Table M1507.3.3 (1)	WAC 51-51-1507 Continuous Whole-House Mechanical Ventilation System Airflow Rate Requirements	No problem with the code change to give more direction on quantity of air for the mechanical ventilation rate. The code change table values are same as 1507.3.3 (1) and are from ASHRAE 62.2-2010	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
Table M1505.3.3(2)	Table M1507.3.3 (2)	WAC 51-51-1507 Intermittent Whole-House Mechanical Ventilation Rate Factors	No problem with the code change to give more direction on quantity of air for the mechanical ventilation rate. The code change table values are same as 1507.3.3 (1) and are from ASHRAE 62.2-2010	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.4	M1507.3.4	WAC 51-51-1507 Whole-house ventilation using exhaust fans	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3.4.1	M1507.3.4.1	WAC 51-51-1507 Whole-house ventilation fans	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.4.2	M1507.3.4.2	WAC 51-51-1507 Fan noise	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.4.3	M1507.3.4.3	WAC 51-51-1507 Fan controls	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.4.4	M1507.3.4.4	WAC 51-51-1507 Ventilation openings	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3.5	M1507.3.5	WAC 51-51-1507 Whole-house ventilation integrated with a forced-air system	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.5.1	M1507.3.5.1	WAC 51-51-1507 Integrated whole-house ventilation systems	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.5.2	M1507.3.5.2	WAC 51-51-1507 Ventilation duct insulation	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.5.3	M1507.3.5.3	WAC 51-51-1507 Outdoor air inlets	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3.6	M1507.3.6	WAC 51-51-1507 Whole-house ventilation using a supply fan	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.6.1	M1507.3.6.1	WAC 51-51-1507 Outdoor air	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.6.2	M1507.3.6.2	WAC 51-51-1507 Ducts	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
Table M1505.3.6.2	Table M1507.3.6.2	WAC 51-51-1507 Prescriptive Supply Fan Duct Sizing	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3.6.3	M1507.3.6.3	WAC 51-51-1507 Dampers	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.6.4	M1507.3.6.4	WAC 51-51-1507 Ventilation duct insulation	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.6.5	M1507.3.6.5	WAC 51-51-1507 Outdoor air inlets	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.7	M1507.3.7	WAC 51-51-1507 Whole-house ventilation using a heat recovery ventilation system	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
M1505.3.7.1	M1507.3.7.1	WAC 51-51-1507 Heat recovery ventilation systems	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.7.2	M1507.3.7.2	WAC 51-51-1507 Ventilation duct insulation	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.3.7.3	M1507.3.7.3	WAC 51-51-1507 Outdoor air inlets	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.4	M1507.4	WAC 51-51-1507 Local exhaust	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
Table M1505.4	Table M1507.4	WAC 51-51-1507 Minimum Required Local Exhaust Rates For One- and Two-Family Dwellings	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.4.1	M1507.4.1	WAC 51-51-1507 Local exhaust fans	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
M1505.4.2	M1507.4.2	WAC 51-51-1507 Local exhaust controls	No changes are recommended	N	Y	1/8/2019 TAG recommends modifying this WAC to match model code numbering
Chapter 16 Duct Systems (IMC TAG)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	M 1602.2	Return air opening locations for H, V, &AC systems	Adds item 7 Return air shall not be taken from natatorium enclosures UNLESS THE AIR IS DEHUMIDIFIED RM37-15 Strike Item 5 except --	Y IF ADDING DEHUMIDIFICATION TO BE ABLE TO RETURN AIR FROM NATATORIUM SPACE.	Y	1/8/2019 TAG recommends an amendment.
Chapter 17 Combustion Air (IMC TAG)						
Chapter 18 Chimneys and Vents (IMC TAG)						
Chapter 19 Special Appliances, Equipment and Systems (IMC TAG)						
Chapter 20 Boilers and Water Heaters (IMC TAG)						

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 21 Hydronic Piping (IMC TAG)						
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Chapter 22 Special Piping and Storage Systems (IMC TAG)						
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Chapter 23 Solar Thermal Energy Systems (IMC TAG)						
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	M2301.2.3	WAC 51-51-2300 Pressure and temperature relief valves and system components	There is an added reference to the ICC 900. This amendment points to state adopted plumbing code (UPC). The base language this sub-section points to P2804 of the IRC which is consistent with IPC and not the state adopted UPC.	N	Y	1/8/2019 TAG recommends an amendment.
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Chapter 24 Fuel Gas (IMC TAG)						
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Chapters 25 – 43 Not adopted per WAC 51-51-003						
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Chapter 44 Referenced Standards (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
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Appendix F Radon Gas Methods (Adopted per WAC 51-51-003) (Willie Hill)

	Appendix F	WAC 51-51-60101 Radon control methods				
Same	AF103	WAC 51-51-60103 Requirements	AF103.1 General. The following construction techniques are intended to resist radon entry and prepare the building for post-construction radon mitigation, if necessary (see Figure AF102). These techniques are required in high radon potential counties designated in Table AF101(1).	N	Y	12/5/2018 TAG recommends revisiting this amendment 12/12/2018 TAG recommends acceptance of amendment changes

Appendix Q (2015 IRC) Dwelling unit fire sprinkler systems (Adopted per WAC 51-51-003) (Todd Short)

Appendix U	Appendix Q	WAC 51-51-60105 Dwelling unit fire sprinkler systems	The design and installation of residential fire sprinkler systems shall be in accordance with the 2015 International Residential Code Section P2904 Dwelling Unit Fire Sprinkler Systems. Q is now Tiny Houses	N	Y	12/12/2018 TAG recommends acceptance of amendment changes

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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Appendix T Solar-ready Provisions—Detached One- and Two-family Dwellings and Townhouses (SBCC Staff)						
Appendix T	Appendix U	WAC 51-51-60106 Solar-ready provisions- detached one- and two-family dwellings, multiple single-family dwellings (townhouses)	Some but not all of the amendment have been addressed by the 2018 IRC. An amendment is recommended. Note: adoption without SBCC approval is addressed in RCW 50-50-0102.	N	Y	11/14/2018 TAG recommend an amendment which includes local adoption without SBCC approval or notification 12/12/2018 TAG recommends acceptance of amendment changes
Appendix V (2015 IRC) Fire Sprinklers (Todd Short)						

2018 Code Section	2015 Code Section	Title or Subject	Reviewer Comments	Economic Impact (Y/N)	Amend Needed (Y/N)	TAG Comments/ Recommendation
	Appendix V	WAC 51-51-60107 Fire sprinklers	Fire sprinklers. The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance. AV107.1 Fire sprinklers. An approved automatic fire sprinkler system shall be installed in new one-family and two-family dwellings and townhouses in accordance with Appendix Q.	N	Y	12/12/2018 TAG recommends acceptance of amendment changes.