

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. | N | N | |
| --- | --- | WAC 51-52-002 Purpose | States purpose of WAC 51-52 | N | N | |
| --- | --- | WAC 51-52-003 International Mechanical Code | References code This WAC needs to be amended to reflect 2018 code. | N | Y | |
| --- | --- | WAC 51-52-004 Conflicts | No changes are recommended | N | N | |
| --- | --- | WAC 51-52-007 Conflicts | No changes are recommended | N | N | |
| --- | --- | WAC 51-52-008 Implementation | States adoption date. Needs amendment | N | Y | |
| | | | | | | |
| Chapter 1 Scope and Administration (...) | | | | | | |
| | 101.2 | WAC 51-52-0101 Scope | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|--|-------------------|--|---|-----------------------|--------------------|------------------------------|
| Chapter 2 Definitions. (...) | | | | | | |
| | 202 | WAC 51-52-0202 General definitions | permanent construction. whole house ventilation system. | | | |
| 202 | 202 | General definitions | Modified the definition for Commercial Cooking Appliances (Deemed significant by ICC) | | | |
| 202 | 202 | General definitions | Added the definition for High-volume, large-diameter Fan (Deemed significant by ICC) | | | |
| 202 | 202 | General definitions | Added the definition for Pollution-control unit (PCU) (Deemed significant by ICC) | | | |
| Chapter 3 General Regulations (...) | | | | | | |
| | 301 | WAC 51-52-0301 General | There is no text | | Y | |
| | 306.5 | WAC 51-52-0306 Equipment and appliances on roofs or elevated structures | | | | |
| | 306.6 | WAC 51-52-0306 Appliances above ceilings | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|------------------------------------|-------------------|--|-------------------|-----------------------|--------------------|------------------------------|
| | 307.2.3 | WAC 51-52-0307 Auxiliary and secondary drain systems | | | | |
| | 307.2.4.1 | WAC 51-52-0307 Ductless mini-split system traps | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 4 Ventilation (...) | | | | | | |
| | 401.2 | WAC 51-52-0401 Ventilation required | | | | |
| | 401.2.1 | WAC 51-52-0401 Group R occupancies | | | | |
| | 401.2.2 | WAC 51-52-0401 Ambulatory care facilities and Group I-2 occupancies | | | | |
| | 401.2.3 | WAC 51-52-0401 All other occupancies | | | | |
| | 401.3 | WAC 51-52-0401 When required | | | | |
| | 401.7 | WAC 51-52-0401 Testing and balancing | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|---|---|-----------------------|--------------------|------------------------------|
| | 403.1 | WAC 51-52-0403 Ventilation system | | | | |
| | 403.2 | WAC 51-52-0403 Outdoor air required | | | | |
| | 403.2.1 | WAC 51-52-0403 Recirculation of air | | | | |
| | 403.3 | WAC 51-52-0403 Outdoor air and local exhaust airflow rates | | | | |
| | 403.3.1.1 | WAC 51-52-0403 Outdoor airflow rate | | | | |
| | 403.3.2 | WAC 51-52-0403 Group R-2, R-3 and R-4 occupancies | This section is not adopted | | | |
| | 403.3.2.1 | WAC 51-52-0403 Outdoor air for dwelling units | This section is not adopted | | | |
| | 403.3.2.2 | WAC 51-52-0403 Outdoor air for other spaces | This section is not adopted | | | |
| | 403.3.2.3 | WAC 51-52-0403 Local exhaust | This section is not adopted | | | |
| 403.3.2.4 | | System controls | Labeling requirement addition (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 |
|-------------------|-------------------|---|--|-----------------------|--------------------|------------------------------|
| 403.3.2.5 | None | Venting equipment | Added new requirement for testing dwelling exhaust fans, (Deemed significant by ICC) | | | |
| | 403.8 | WAC 51-52-0403 Ventilation systems for Group R occupancies | | | | |
| | 403.8.1 | WAC 51-52-0403 Minimum ventilation performance | | | | |
| | 403.8.2 | WAC 51-52-0403 Control and operation | | | | |
| | 403.8.3 | WAC 51-52-0403 Outdoor air intake locations | | | | |
| | 403.8.4 | WAC 51-52-0403 Local exhaust ventilation requirements | | | | |
| | 403.8.4.1 | WAC 51-52-0403 Local exhaust systems | | | | |
| | 403.8.4.2 | WAC 51-52-0403 Local exhaust fans | | | | |
| | 403.8.5 | WAC 51-52-0403 Whole house ventilation requirements | | | | |
| | 403.8.5.1 | WAC 51-52-0403 Outdoor air | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|--|-------------------|-----------------------|--------------------|------------------------------|
| | 403.8.5.2 | WAC 51-52-0403 Whole house supply system general requirements | | | | |
| | 403.8.6 | WAC 51-52-0403 Whole house ventilation with exhaust fan systems | | | | |
| | 403.8.6.1 | WAC 51-52-0403 Outdoor air | | | | |
| | 403.8.6.2 | WAC 51-52-0403 Outside air intake locations | | | | |
| | 403.8.6.3 | WAC 51-52-0403 Whole house exhaust system | | | | |
| | 403.8.6.4 | WAC 51-52-0403 Whole house exhaust and transfer fans | | | | |
| | 403.8.6.5 | WAC 51-52-0403 Fan noise | | | | |
| | 403.8.7 | WAC 51-52-0403 Whole house ventilation integrated with forced-air systems | | | | |

| 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 | | | | |
| | 403.8.7.2 | WAC 51-52-0403 Whole house forced-air system | | | | |
| | 403.8.8 | WAC 51-52-0403 Whole house ventilation with supply fan systems | | | | |
| | 403.8.8.1 | WAC 51-52-0403 Outdoor air | | | | |
| | 403.8.8.2 | WAC 51-52-0403 Whole house supply system | | | | |
| | 403.8.9 | WAC 51-52-0403 Whole house ventilation with heat recovery or energy recovery ventilation systems | | | | |
| | 403.8.9.1 | WAC 51-52-0403 Outdoor air | | | | |
| | 403.8.9.2 | WAC 51-52-0403 Whole house heat recovery ventilator system | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|--|-------------------|---|---|-----------------------|--------------------|------------------------------|
| | 403.8.10 | WAC 51-52-0403 Local exhaust ventilation and whole house ventilation alternate performance or design requirements. | | | | |
| | 403.8.11 | WAC 51-52-0403 Alternate systems | | | | |
| 404.1 | 404.2 | Enclosed parking garages | Clarifies the intent with regard to "intermittent" operation. (Deemed significant by ICC) | | | |
| | 404.4 | WAC 51-52-0404 Automobile repair facilities | | | | |
| | 407.1 | WAC 51-52-0407 General | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 5 Exhaust Systems (...) | | | | | | |
| | 501.3.1 | WAC 51-52-0501 Location of exhaust outlets | | | | |
| | 501.4 | WAC 51-52-0501 Pressure equalization | | | | |

| 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 | | | | |
| 504.4 | Same | Exhaust installation | Addresses clothes dryer exhaust ducts (Deemed significant by ICC) | | | |
| 504.4.1 | None | Exhaust termination outlet and passageway size | Addresses the required size of dryer exhaust duct terminals. (Deemed significant by ICC) | | | |
| 504.8.2 | Same | Duct installation | Addresses the installation of clothes dryer exhaust ducts in wall and ceiling cavities (Deemed significant by ICC) | | | |
| | 504.10 | WAC 51-52-0504 Common exhaust systems for clothes dryers located in multistory structures | | | | |
| | 505.1 | WAC 51-52-0505 Domestic systems | | | | |
| | 506.3.9.1 | WAC 51-52-0506 Grease duct horizontal cleanout | | | | |
| | 506.3.9.2 | WAC 51-52-0506 Grease duct vertical cleanouts | | | | |
| | 506.3.11 | WAC 51-52-0506 Grease duct enclosures | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------------------------|-------------------|--|---|-----------------------|--------------------|------------------------------|
| 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) | | | |
| 506.5.2 | None | Pollution-control units | | | | |
| | 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) | | | |
| | 507.2 | WAC 51-52-0507 Type I hoods | | | | |
| 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) | | | |
| | 515.1 | WAC 51-52-0515 General | | | | |
| Chapter 6 Duct Systems (...) | | | | | | |
| | 601.2 | WAC 51-52-0601 Air movement in egress elements | | | | |
| | 602.1 | WAC 51-52-0602 General | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|--|--|-----------------------|--------------------|------------------------------|
| 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) | | | |
| | 603.5.1 | WAC 51-52-0603 Gypsum ducts | | | | |
| 603.5.2 | None | Phenolic ducts | New text to address a newer type of non-metallic phenolic duct. (Deemed significant by ICC) | | | |
| 603.8.2 | Same | Sealing | Addresses testing of underground ducts, (Deemed significant by ICC) | | | |
| 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) | | | |
| | 605.1 | WAC 51-52-0605 General | | | | |
| | 605.4 | WAC 51-52-0605 Particulate matter removal | | | | |
| | 606.2.1 | WAC 51-52-0606 Return air systems | | | | |
| | 606.2.2 | WAC 51-52-0606 Common supply and return air systems | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|---|-------------------|---|--|-----------------------|--------------------|------------------------------|
| 607.3.1 | Same | Damper testing. | Mandates dynamic-type ceiling radiation dampers where subject to continuous air flow from HVAC fans. (Deemed significant by ICC) | | | |
| | | | | | | |
| Chapter 7 Combustion Air (...) | | | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 8 Chimneys and Vents (...) | | | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 9 Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment (...) | | | | | | |
| | Section 928 | WAC 51-52-0928 Evaporative cooling equipment | Blank | | Y | |
| 929.1 | Non | General | Added coverage for HVLVD fans. (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 |
|---|-------------------|--|---|-----------------------|--------------------|------------------------------|
| Chapter 10 Boilers, Water Heaters and Pressure Vessels (...) | | | | | | |
| | 1001.1 | WAC 51-52-1000 Scope | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 11 Refrigeration (...) | | | | | | |
| Same | 1107.2 | WAC 51-52-1107 Piping location | | | | |
| 1105.6.3 | None | Ventilation rate | Clarification added regarding the ventilation rate for ammonia systems (Deemed significant by ICC) | | | |
| 1107.2 | Same | Piping location | Rewritten to clearly state the intent regarding the prohibited locations for refrigerant piping (Deemed significant by ICC) | N | | |
| | | | | | | |
| | | | | | | |
| Chapter 12 Hydronic Piping (...) | | | | | | |
| | 1209.5.1 | WAC 51-52-1200 Slab-on-grade installation | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|---|-------------------|---|---|-----------------------|--------------------|------------------------------|
| | 1210.7.6 | WAC 51-52-1200 Expansion tanks | | | | |
| | | | | | | |
| Chapter 13 Fuel Oil Piping and Storage (...) | | | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 14 Solar Thermal Systems (...) | | | | | | |
| 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) | | | |
| 1402.2 | 1402.1 | Access | Rewritten for consistence with current technology. (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 |
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |

Chapter 15 Referenced Standards (...)

| | | | | | | |
|--|------------|--|------------------------|--|--|--|
| | Chapter 15 | WAC 51-52-1500 Referenced standards | Added ASHRAE 62.2-2013 | | | |
| | | | | | | |
| | | | | | | |

International Fuel Gas Code (WAC 51-51-007)

Chapter 1 Scope and Administration (...)

| | | | | | | |
|--|-----------------------------|--|-------|--|---|--|
| | International Fuel Gas Code | WAC 51-52-2100 | Blank | | Y | |
| | 101.2 | WAC 51-52-21101 Scope | | | | |

Chapter 2 Definitions (...)

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
|--|--|--|--|--|--|--|

Chapter 3 General Regulations (...)

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
|--|--|--|--|--|--|--|

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|

| | | | | | | |
|---|---------|-----------------------|---|--|--|--|
| | | | | | | |
| 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) | | | |
| 310.2 | 310.1.1 | 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) | | | |
| 310.2.3 | Same | Bonding jumper length | Clarifies the purpose of any "additional grounding electrodes." (Deemed significant by ICC) | | | |
| 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) | | | |
| Chapter 4 Gas Piping Installations (...) | | | | | | |
| | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|---|--|-----------------------|--------------------|------------------------------|
| | Chapter 4 | WAC 51-52-21401 Gas piping installations | Blank | | 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) | | | |
| 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) | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|---|-------------------|--|--|-----------------------|--------------------|------------------------------|
| 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 (...) | | | | | | |
| | | | | | | |
| 503.4.1 | Same | Plastic piping | The standard for plastic piping venting materials must be listed is addressed (Deemed significant by ICC) | | | |
| 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 (...) | | | | | | |
| | Chapter 6 | WAC 51-52-21601 Specific appliances | Blank | | Y | |
| | | | | | | |
| Chapter 7 Gaseous Hydrogen Systems (...) | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|

| | | | | | | |
|--|--|--|--|--|--|--|
| Chapter 8 Reference Standards (...) | | | | | | |
| | | | | | | |
| | | | | | | |

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

| | | | | | | |
|--|------------------------|---------------------------------|-------|--|---|--|
| Chapter 1 Administration (...) | | | | | | |
| | National Fuel Gas Code | WAC 51-52-22000 | Blank | | Y | |
| | | | | | | |
| Chapter 2 Referenced Publications (...) | | | | | | |
| | | | | | | |
| Chapter 3 Definitions (...) | | | | | | |
| | | | | | | |
| Chapter 4 General (...) | | | | | | |
| | | | | | | |
| | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|---|-------------------|--|-------------------|-----------------------|--------------------|------------------------------|
| | | | | | | |
| Chapter 5 Gas Piping System Design, Materials, and Components (...) | | | | | | |
| | | | | | | |
| Chapter 6 Pipe Sizing (...) | | | | | | |
| | Chapter 6 | WAC 51-52-22006 Gas piping installation | Blank | | Y | |
| | | | | | | |
| Chapter 7 Gas Piping Installation (...) | | | | | | |
| | | | | | | |
| Chapter 8 Inspection, Testing, and Purging (...) | | | | | | |
| | | | | | | |
| Chapter 9 Appliance, Equipment, and Accessory Installation (...) | | | | | | |
| | | | | | | |
| Chapter 10 Installation of Specific Appliances (...) | | | | | | |
| | | | | | | |
| Chapter 11 Procedures to Be Followed to Place Appliance in Operation (...) | | | | | | |
| | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------------|-------------------------|------------------|-------------------|-----------------------------|--------------------------|---------------------------------|
|-------------------------|-------------------------|------------------|-------------------|-----------------------------|--------------------------|---------------------------------|

| | | | | | | |
|--|--|--|--|--|--|--|
| Chapter 12 Venting of Appliances (...) | | | | | | |
| | | | | | | |
| Chapter 13 Sizing of Category I Venting (...) | | | | | | |
| | | | | | | |

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

| | | | | | | |
|--|--|--|--|--|--|--|
| Chapter 1 Administration (...) | | | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 2 Referenced Publications (...) | | | | | | |
| | | | | | | |
| Chapter 3 Definitions (...) | | | | | | |
| | | | | | | |
| Chapter 4 General Requirements (...) | | | | | | |
| | | | | | | |
| | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|

| | | | | | | |
|--|-----------|--|-------|--|---|--|
| Chapter 5 LP-Gas Equipment and Appliances (...) | | | | | | |
| | | | | | | |
| Chapter 6 Installation of LP-Gas Systems (...) | | | | | | |
| | Chapter 6 | WAC 51-52-22006 Gas piping installation | Blank | | Y | |
| | | | | | | |
| Chapter 7 LP-Gas Liquid Transfer (...) | | | | | | |
| | | | | | | |
| Chapter 8 Storage of Cylinders Awaiting Use, Resale, or Exchange (...) | | | | | | |
| | | | | | | |
| Chapter 9 Vehicular Transportation of LP-Gas (...) | | | | | | |
| | | | | | | |
| Chapter 10 Buildings or Structures Housing LP-Gas Distribution Facilities (...) | | | | | | |
| | | | | | | |
| Chapter 11 Engine Fuel Systems (...) | | | | | | |
| | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|
|-------------------|-------------------|------------------|-------------------|-----------------------|--------------------|------------------------------|

| | | | | | | |
|---|--|--|--|--|--|--|
| Chapter 12 Refrigerated Containers (...) | | | | | | |
| | | | | | | |
| Chapter 13 Marine Shipping and Receiving (...) | | | | | | |
| | | | | | | |
| Chapter 14 Operations and Maintenance (...) | | | | | | |
| | | | | | | |
| Chapter 15 Pipe and Tubing Sizing Tables (...) | | | | | | |
| | | | | | | |
| | | | | | | |

International Residential Code

| | | | | | | |
|---|---------|--|--|--|--|--|
| Chapter 12 Mechanical Administration (...) | | | | | | |
| | M1201.1 | WAC 51-51-1201 Scope | | | | |
| | M1201.3 | WAC 51-51-1201 Construction documents | | | | |
| | M1201.4 | WAC 51-51-1201 Testing | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|--|-------------------|---|---|-----------------------|--------------------|------------------------------|
| | | | | | | |
| Chapter 13 General Mechanical System Requirements (...) | | | | | | |
| | M1301.2 | WAC 51-51-1301 Identification | | | | |
| 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 | | | | |
| | | | | | | |

| 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 (...)

| | | | | | | |
|--|---------|---|--|--|--|--|
| | M1413.1 | WAC 51-51-1413 General | | | | |
| | | | | | | |
| | | | | | | |

Chapter 15 Exhaust Systems (IMC TAG)

| | | | | | | |
|-----------|------|---|---|--|--|--|
| 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) | | | |
| 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) | | | |

| 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) | | | |
| 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) | | | |
| | M1505.1 | WAC 51-51-1505 General | | | | |
| | M1507.1 | WAC 51-51-1507 General | | | | |
| | M1507.2 | WAC 51-51-1507 Recirculation of air | | | | |
| | M1507.3 | WAC 51-51-1507 Whole-house mechanical ventilation system | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|-------------------|---------------------------|--|-------------------|-----------------------|--------------------|------------------------------|
| | M1507.3.1 | WAC 51-51-1507 System design | | | | |
| | M1507.3.2 | WAC 51-51-1507 Control and operation | | | | |
| | M1507.3.2 .1 | WAC 51-51-1507 Operating instructions | | | | |
| | M1507.3.3 | WAC 51-51-1507 Mechanical ventilation rate | | | | |
| | Table M1507.3.3 (1) | WAC 51-51-1507 Continuous Whole-House Mechanical Ventilation System Airflow Rate Requirements | | | | |
| | Table M1507.3.3 (2) | WAC 51-51-1507 Intermittent Whole-House Mechanical Ventilation Rate Factors | | | | |
| | M1507.3.4 | WAC 51-51-1507 Whole-house ventilation using exhaust fans | | | | |
| | M1507.3.4 .1 | WAC 51-51-1507 Whole-house ventilation fans | | | | |
| | M1507.3.4 .2 | WAC 51-51-1507 Fan noise | | | | |
| | M1507.3.4 .3 | WAC 51-51-1507 Fan controls | | | | |

| 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 .4 | WAC 51-51-1507 Ventilation openings | | | | |
| | M1507.3.5 | WAC 51-51-1507 Whole-house ventilation integrated with a forced-air system | | | | |
| | M1507.3.5 .1 | WAC 51-51-1507 Integrated whole-house ventilation systems | | | | |
| | M1507.3.5 .2 | WAC 51-51-1507 Ventilation duct insulation | | | | |
| | M1507.3.5 .3 | WAC 51-51-1507 Outdoor air inlets | | | | |
| | M1507.3.6 | WAC 51-51-1507 Whole-house ventilation using a supply fan | | | | |
| | M1507.3.6 .1 | WAC 51-51-1507 Outdoor air | | | | |
| | M1507.3.6 .2 | WAC 51-51-1507 Ducts | | | | |
| | Table M1507.3.6 .2 | WAC 51-51-1507 Prescriptive Supply Fan Duct Sizing | | | | |
| | M1507.3.6 .3 | WAC 51-51-1507 Dampers | | | | |
| | M1507.3.6 .4 | WAC 51-51-1507 Ventilation duct insulation | | | | |

| 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 .5 | WAC 51-51-1507 Outdoor air inlets | | | | |
| | M1507.3.7 | WAC 51-51-1507 Whole-house ventilation using a heat recovery ventilation system | | | | |
| | M1507.3.7 .1 | WAC 51-51-1507 Heat recovery ventilation systems | | | | |
| | M1507.3.7 .2 | WAC 51-51-1507 Ventilation duct insulation | | | | |
| | M1507.3.7 .3 | WAC 51-51-1507 Outdoor air inlets | | | | |
| | M1507.4 | WAC 51-51-1507 Local exhaust | | | | |
| | Table M1507.4 | WAC 51-51-1507 Minimum Required Local Exhaust Rates For One- and Two-Family Dwellings | | | | |
| | M1507.4.1 | WAC 51-51-1507 Local exhaust fans | | | | |
| | M1507.4.2 | WAC 51-51-1507 Local exhaust controls | | | | |
| 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 |
|---|-------------------|---|--|-----------------------|--------------------|------------------------------|
| | M1601.1.1 | WAC 51-51-1600 Above-ground duct systems | | | | |
| 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) | | | |
| Chapter 17 Combustion Air (...) | | | | | | |
| | M1701.1 | WAC 51-51-1700 Scope | | | | |
| Chapter 18 Chimneys and Vents (...) | | | | | | |
| Chapter 19 Special Appliances, Equipment and Systems (...) | | | | | | |

| 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) | | | |
| | | | | | | |
| Chapter 20 Boilers and Water Heaters (...) | | | | | | |
| | M2005.1 | WAC 51-51-2000 General | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 21 Hydronic Piping (...) | | | | | | |
| | M2101.3 | WAC 51-51-2101 Protection of potable water | | | | |
| | 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) | | | |
| M2101.10 | Same | Tests. | Compressed air testing of PEX hydronic piping is now allowed when testing is in accordance with the manufacturer's instructions. (Considered a significant change by ICC) | | | |
| M2103.2 | Same | Thermal barrier required | 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. (Considered a significant change by ICC) | | | |
| | M2103.3 | WAC 51-51-2103 Piping joints | | | | |
| | M2105.9 | WAC 51-51-2105 CPVC plastic pipe | | | | |
| | 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 | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|--|-------------------|--|---|-----------------------|--------------------|------------------------------|
| | | | | | | |
| Chapter 22 Special Piping and Storage Systems (...) | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Chapter 23 Solar Thermal Energy Systems (...) | | | | | | |
| 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) | | | |
| | M2301.2.3 | WAC 51-51-2300 Pressure and temperature relief valves and system components | | | | |
| | M2301.2.5 | WAC 51-51-2300 Piping insulation | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|----------------------------------|-------------------|---|---|-----------------------|--------------------|------------------------------|
| 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 | | | | |
| Chapter 24 Fuel Gas (...) | | | | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|---------------------|-----------------------|----------------------|---|-----------------------|--------------------|------------------------------|
| 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) | | | |
| 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) | | | |
| 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) | | | |
| 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) | | | |

| 2018 Code Section | 2015 Code Section | Title or Subject | Reviewer Comments | Economic Impact (Y/N) | Amend Needed (Y/N) | TAG Comments/ Recommendation |
|------------------------------|-------------------|----------------------------------|---|-----------------------|--------------------|------------------------------|
| 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) | | | |
| G2415.11 (404.11) | Same | Protection against Corrosion | 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. (Considered a significant change by ICC) | | | |
| G2420.5.1 (409.5.1) | Same | Located within same room | Shutoff valves located behind movable appliances are considered as meeting the requirement for access. (Considered a significant change by ICC) | | | |
| G2420.6 | None | Shutoff valves in tubing systems | Shutoff valves in gas tubing systems require rigid support separate from the tubing to prevent damage at the valve connection. (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 |
|-------------------|-------------------|---------------------|---|-----------------------|--------------------|------------------------------|
| 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) | | | |
| 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) | | | |
| | | | | | | |