

Washington State Building Code Council • Code Change Cycle 2021 Group 2

2021 International Mechanical Codes Significant Change Review Worksheet

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
2021 INTERNATIONAL MECHANICAL CODE							
Chapter 1 Scope and Administration							
TAG Member Assigned: Jeff Yirak							
101	101	Scope and General Requirements	Name change.	N	N	N	Adopt (12/16/21)
101.2	101.2	Scope	Clarifies three stories are defined from ground plane level. Existing State Amendment Staff Recommendation: Update to latest editions of NFPA 54 (2021) and NFPA 58 (2020) Modify per staff recommendation	N	N	N	Adopt (12/16/21)
101.3	101.3	Purpose	Minor rewording.	N	N	N	Adopt (12/16/21)
103	103	Code Compliance Agency	Creates the code compliance agency as the code official, with specific function for implementation, administration, and enforcement of provisions of this code.	N	N	N	Adopt (12/16/21)
104.8	103.4	Liability	Relocated from elsewhere in the code.	N	N	N	Adopt (12/16/21)
Deleted	106.3.1	Construction Documents	This was relocated to section 110.	N	N	N	Adopt (12/16/21)
106.3.1 106.3.2	106.3.2 106.3.3	Preliminary Inspection, Time limitation of application	Renumbered.	N	N	N	Adopt (12/16/21)
106.4.6 106.4.7	106.4.7 106.4.8	Previous approvals, Posting of permit	Renumbered.	N	N	N	Adopt (12/16/21)
107	110	Temporary Equipment, Systems and Uses	Renumbered.	N	N	N	Adopt (12/16/21)

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108	107	Inspections and Testing	Renumbered.	N	N	N	Adopt (12/16/21)
109	106.5	Fees	Relocated into its own section.	N	N	N	Adopt (12/16/21)
109.1	106.5	Payment of fees.	Minor rewording.	N	N	N	Adopt (12/16/21)
109.2	106.5.2	Schedule of permit fees.	This removes prescriptive stipulations regarding refund amounts or timeliness, giving the code official more flexibility.	N	N	N	Adopt (12/16/21)
109.3	N/A	Permit valuations.	This removes prescriptive stipulations regarding refund amounts or timeliness, giving the code official more flexibility. Adds authority for the code official to challenge the attested value of the work as a function of the permit valuation.	N	N	N	Adopt (12/16/21)
109.4	106.5.1	Work commencing before permit issuance	Changes prescriptive requirement of "100% of the usual permit fee" to a fee established by the code official. This could be higher or lower than 100% of the usual permit fee.	N	Y	N	Adopt (12/16/21)
109.5	N/A	Related fees	Reminds the applicate that all permits and fees are required.	N	N	N	Adopt (12/16/21)
109.6	106.5.3	Refunds	Authorizes code official authority to establish a refund policy. This removes prescriptive stipulations regarding refund amounts or timeliness, giving the code official more flexibility.	N	N	N	Adopt (12/16/21)
110	106.3.1 106.4.6	Construction Documents	Relocated to its own section. Adds digital format as an acceptable means of contract document submittal.	N	N	N	Adopt (12/16/21)
111	107.4 107.4.1	Notice of Approval	Renumbered.	N	N	N	Adopt (12/16/21)
112.1	107.6 107.5	Connection of service utilities	Relocated to a new section.	N	N	N	Adopt (12/16/21)

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112.2	107.5	Temporary connection	Expands the definition of a temporary source connection and grants authorization by the code official without needing a temporary certificate of occupancy.	N	N	N	Adopt (12/16/21)
112.3	N/A	Authority to disconnect service utilities	Grants the code official the authority to disconnect service utilities to eliminate immediate hazard to life or property or where such utility connection has been made without approval.	Y	N	N	Adopt (12/16/21)
113	N/A	Stop Work Order	New section	N	N	N	Adopt (12/16/21)
113.1	N/A	Authority	Grants the code official the authority to issue a stop work order if work is not performed per this code or in a dangerous or unsafe manner.	Y	N	N	Adopt (12/16/21)
113.2	N/A	Issuance	Describes how to issue the stop work order.	N	N	N	Adopt (12/16/21)
113.3	N/A	Emergencies	Provides exception to providing written notice if an emergency exists. Does not define an emergency.	N	N	N	Adopt (12/16/21)
113.4	N/A	Failure to comply	Any person who does not stop work after being served a stop work order, with exception, shall be subject to fines established by the authority having jurisdiction. Since authority having jurisdiction isn't defined, recommend modifying to refer to code official in lieu of authority having jurisdiction.	N	N	Y	Adopt with modification (12/16/21)
114	109	Means of Appeals	Renumbered from previous section and expanded.	N	N	N	Adopt (12/16/21)
114.1	N/A	General	Defines who creates the board of appeals and its purpose. Does away with most prescriptive procedural articles found in 2018 IMC.	N	N	N	Adopt (12/16/21)

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114.2	109.1	Limitations on authority	Minor revisions to 2018 paragraphs.	N	N	N	Adopt (12/16/21)
114.3	109.2.1	Qualifications	Defines the board to be made up of qualified members and not employees of the jurisdiction. Removes stipulated qualifications based on experience.	N	N	N	Adopt (12/16/21)
114.4	N/A	Administration	Directs the code official to take immediate action in accordance with the decision of the board.	N	N	N	Adopt (12/16/21)
115	108	Violations	Section is renumbered.	N	N	N	Adopt (12/16/21)
Chapter 2 Definitions							
TAG Member Assigned: Andrea Smith							
202	202	Balanced Ventilation	New definition added to IMC	N	N	N	Adopt (1/13/22)
		Balanced Whole House Ventilation	<p>Existing Amendment 2021 IMC adds a new definition for Balanced ventilation that is similar but missing the second sentence</p> <p>Staff recommendation: Remove state amendment. Second sentence is a code exception that should be moved to Chapter 4.</p> <p>Accept staff recommendation</p>				Remove state amendment (1/13/22)
			<p>Balanced whole house ventilation. Any combination of concurrently operating residential unit mechanical exhaust and mechanical supply whereby the total mechanical exhaust airflow rate is within 10 percent or 5 cfm, whichever is greater, of the total mechanical supply airflow rate. Intermittent dryer exhaust, intermittent range hood exhaust, and intermittent toilet room exhaust airflow rates above the residential dwelling or sleeping unit minimum ventilation rate are exempt from the balanced airflow calculation.</p> <p>[2021 IMC] BALANCED VENTILATION. Any combination of concurrently operating mechanical exhaust and mechanical supply whereby the total mechanical exhaust airflow rate is within 10 percent of the total mechanical supply airflow rate.</p>				

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
202	202	Ceiling Radiation Dampers	New definition added to IMC Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Direct Evaporative Cooling	New definition added to IMC Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Flammability Classification (Refrigerant)	Creates flammability classifications Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Indirect Evaporative Cooling	New definition added to IMC Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Large-Diameter Ceiling Fan	New definition added to IMC Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Press-Connect Joint	Added "bite ring" to definition Adopt change in definition	N	N	N	Adopt (12/16/21)
202	202	Refrigerant Safety Group Classification	Creates safety classification based on flammability and toxicity Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Toxicity Classification (Refrigerant)	Creates toxicity classifications Adopt definition	N	N	N	Adopt (12/16/21)
202	202	Unvented Alcohol Fuel-Burning Decorative Appliance	New definition added to IMC Adopt definition	N	N	N	Adopt (12/16/21)
		Distributed whole house ventilation	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
		Local exhaust	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)
		Permanent construction	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)
		Relief air	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)
		Replacement air	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)
		Whole house ventilation system	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)
		Ventilation zone	Existing Amendment WA only language Staff Recommendation: Retain state amendment Keep existing amendment				Retain (12/16/21)
Chapter 3 General Regulations							
TAG Member Assigned: Andrea Smith							
301.18	301.18	Seismic resistance	Adds anchoring and bracing to seismic resistance requirements	N	M	N	Adopt (12/16/21)

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304.11	304.11	Guards	Guard shall extend not less than 30 inches beyond each end of components that require service and each end of the roof hatch parallel to the roof edge // Adds reference to standards the exception should meet.	N	N	N	Adopt (12/16/21)
306.5	306.5	Equipment and appliances on roofs or elevated structures	Existing State Amendment Modifies heights to match WISHA standards				Retain (12/16/21)
306.6	306.6	Appliances above ceilings	Existing State Amendment WA only language				Retain (12/16/21)
307.1.1	N/A	Identification	Requires end of piping to be marked so it's easily determined if it is connected to primary or secondary drain	N	N	N	Adopt (12/16/21)
307.2.1.1	N/A	Condensate discharge	Condensate drains cannot connect to any plumbing drain, waste, or vent pipe. Shouldn't discharge into plumbing fixtures other than those listed.	Y	N	N	Adopt (12/16/21)
307.2.2	307.2.2	Drain pipe materials and sizes	Adds ABS, CPVC, galvanized steel, PE-RT, polypropylene, and PVDF as components of systems and determines appropriate size of piping.	N	N	N	Adopt (12/16/21)
307.2.3	307.2.3	Auxiliary and secondary drain systems	Existing State Amendment Added exception to the requirement for water-level detection devices for unducted fan coil units Staff Recommendation: Retain existing Amendment Keep existing amendment				Retain (12/16/21)
307.2.3.3	N/A	Identification	Requires the end of condensate piping is marked to indicate which drain pipe it is connected to.	N	N	N	Adopt (12/16/21)

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307.2.4.1	307.2.4.1	Ductless mini-split system traps	Existing State Amendment Adds allowance for other means of condensate drainage Staff Recommendation: Retain existing amendment Keep existing amendment				Retain (12/16/21)
Chapter 4 Ventilation							
TAG Member Assigned: Mike Lubliner, Tom Jensen, Nancy Bernard							
401.2	401.2	Ventilation required	WA amendments supersede	Y	N	N	Keep state amendment (1/06/22)
401.2	401.2		Existing state amendment Reformats section into subsections that point to state requirements Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
401.2.1	401.2.1	Group R occupancies	Existing state amendment WA language pointer for whole house ventilation requirements Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
401.2.2	401.2.2	Ambulatory care facilities and Group I-2 occupancies	Existing state amendment WA amendment pulled from 401.2 Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
401.2.3	401.2.3	All other occupancies	Existing state amendment WA amendment pulled from 401.2 Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)

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401.3	401.3	When required	Existing state amendment Specific charging language for whole house ventilation is added Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
401.4	401.4	Intake opening location	Eliminate amendment	Y	N	N	Modify existing amendment and bring in new language for item 3 (1/06/22)
			Existing state amendment Two exceptions are added regarding environmental air exhaust and intake openings and enclosed parking garage intake openings. 2021 IMC adds language to item 3 that is effectively the same as the first state added exception. Staff recommendation Modify the state amendment to delete the exception to item 3 and replace it with the new 2021 IMC language				Concur with staff (1/06/22)
401.7	401.7		Existing State Amendment WA only language allowing the code official to require flow testing Staff Recommendation: Modify the state amendment to replace "building official" with "code official"				Concur with staff (1/06/22)
403.1	403.1	Ventilation system	WA amendment eliminates the affected sentence	Y	N	N	Keep existing amendment (1/06/22)

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403.1			Existing state amendment Removes reference to Group R requirements Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
403.2.1	403.2.1	Recirculation of air, exception 2	Accept change	N	N	N	Adopt (1/06/22)
403.2.1			Existing state amendment Deletes the allowance for recirculation of air within footnote b spaces; adds an allowance for recirculating footnote g spaces when returned to an ERV Staff Recommendation: Eliminate the state amendment to item 4 with the 2021 IMC language for item 2 and footnote g	Y			Concur with staff (1/06/22)
403.3	403.3	Outdoor air and local exhaust airflow rates	Existing state amendment Pointer to whole house ventilation requirements in lieu of IMC requirements Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
403.3.1.1	403.3.1.1	Outdoor airflow rate	Existing state amendment Adds requirements for outdoor air to be ducted to each occupiable space; exception clarified with a backstop Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
Table 403.3.1.1	Table 403.3.1.1	Minimum Ventilation Rates	Do we use both Tables?	N	N	N	Recommend reprinting entire table for state amendment (1/06/22)

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Table 403.3.1.1	Table 403.3.1.1	Note G below table	Accept new language	Y	N	N	Adopt (1/06/22)
Table 403.3.1.1		Minimum ventilation rates	Existing state amendment Adds categories for kitchenettes, elevator lobbies, ice areas, janitor closets; refrigerated spaces moved to workrooms; Group R references whole house section Staff Recommendation: Retain state amendment				Concur with staff recommendation (1/06/22)
403.3.1.1.2.3 and subsections		Multiple zone recirculating systems	Existing state amendment Replaces all the multiple-space language and equations with the requirements from ASHRAE 62.1 Staff Recommendation: Retain state amendment				Concur with staff recommendation (1/06/22)
403.3.1.3	403.3.1.3	System operation	Accept new language	Y	N	N	Adopt (1/06/22)
403.3.1.5	403.3.1.5	Balancing	Accept deletion	N	N	N	Accept change (1/06/22)
403.3.2 (and all subsections)		Group R-2, R-3 and R-4 occupancies	Existing state amendment Pointer to whole house ventilation requirements in lieu of IMC requirements Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
403.3.2.1	403.3.2.1	Outdoor air for dwelling units	Section Not Adopted	Y	N	N	Keep state amendment (1/06/22)
403.3.2.5	403.3.2.5	Ventilating equipment	Section Not Adopted	N	N	N	Keep state amendment (1/06/22)
403.4 and all subsections		Whole house ventilation	Existing state amendment Staff Recommendation: Retain state amendments				Concur with staff (1/06/22)

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404.3	404.3	Automobile repair facilities	Existing state amendment Requires exhaust extension ducts to be furnished at each repair bay and all offices and waiting rooms to be under positive pressure Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
407.1	407.1	General	Accept new language	N	N	N	Adopt (1/06/22)
407.1	407.1	General (Ambulatory care)	Existing state amendment Pointer to the DOH requirements Staff Recommendation: Retain state amendment				Concur with staff (1/06/22) DOH CRS concurs (1/07/22)
Chapter 5 Exhaust Systems							
TAG Member Assigned: Mike Lubliner, Tom Jensen, Nancy Bernard							
501.2	501.2	Independent system required	Accept new language	N	N	N	Adopt (1/06/22)
501.3.1	501.3.1	Location of exhaust outlets	Accept new language	Y	N	N	Adopt and modify current amendment (1/06/22)
501.3.1			Existing state amendment Adds specific requirements for enclosed parking garages and transformer vaults; also adds three exceptions to environmental air exhaust requirements Staff Recommendation: Modify the state amendment with the 2021 IMC language for item 3 allowing combination termination fittings				Concur with Staff (1/06/22)

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501.4	501.4	Pressure equalization	Existing state amendment Adds an exception for residential range, dryer and local exhaust Staff recommendation: Retain state amendment				Concur with Staff (1/06/22)
502.4	502.4	Stationary storage battery systems	Accept deletion	N	N	N	Moved to fire code Concur (1/06/22)
502.9.5	502.9.5	Flammable and combustible liquids	Accept new language	N	N	N	Adopt (1/06/22)
502.20.1	N/A	Operation	Accept new language	Y	N	N	Adopt (1/06/22)
504.1	504.1	Installation	Accept new language	N	N	N	Adopt (1/06/22)
504.4	504.4	Exhaust installation	Existing state amendment Allows wall louvers with at least 1/2-inch spacing; prohibits dryer ducts from penetrating other ducts or plenums; allows ducts to terminate at a common location with individual back draft dampers Retain state amendment				Concur with Staff (1/06/22)
504.4.1	N/A	Termination location	Accept new language	Y	N	N	Adopt (1/06/22)
504.6	N/A	Booster fans prohibited	Accept new language	N	N	N	Adopt (1/06/22)
504.10	504.11	Common exhaust systems for clothes dryers in multistory structures	Existing state amendment Item 9 is amended for clarity Staff Recommendation: Retain state amendment but renumber				Concur with Staff (1/06/22)
505.3	505.3	Exhaust ducts	WA amendments supersede	N	N	N	Keep state amendment (1/06/22)

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505.3	505.3	Exhaust ducts	Existing state amendment Original proposal was to allow ducts to terminate at a common exhaust when equipped individually with backdraft dampers Staff Recommendation: Revise to update with new language introduced in 2015 while keeping the last two sentences of the state amendment				Concur with Staff (1/06/22)
506.3.2.4	506.3.2.4	Vibration isolation	Existing State Amendment Allows an option for fan flexible connectors per Section 506.3.2.3 Staff Recommendation: Retain state amendment				Concur with Staff (1/06/22)
506.3.7	506.3.7	Prevention of grease accumulation in grease ducts	Accept new language	Y	N	N	Adopt (1/06/22)
506.3.9	506.3.9	Grease duct horizontal cleanouts	Accept new language	N	N	N	Modify state amendment with new language (1/06/22)
506.3.9 (and subsections)	Same	Grease duct cleanout location, spacing and installation	Existing State Amendment Adds requirements for vertical cleanouts Staff Recommendation: Add new 2021 IMC item 7 to existing state amendment in 506.3.9.1 (7. Be located within 3 feet of horizontal discharge fans.)				Concur with Staff (1/06/22)
506.3.11	506.3.11	Grease duct enclosures	Existing State Amendment Sets the maximum at 2 hr fire resistance rating Staff Recommendation: Retain state amendment				Concur with Staff (1/06/22)
506.5.2	506.5.2	Pollution-control units	Accept new language	N	N	N	Adopt (1/06/22)

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507.1	507.1	General	Accept new language	Y	N	N	Adopt (1/06/22)
507.1.2	507.1.2	Domestic Cooking appliances used for commercial purposes	Existing State Amendment Adds a table specifying when a residential hood is allowed--same amendment is in the fire code Staff Recommendation: Retain state amendment				Concur with Staff (1/06/22)
507.2	507.2	Type I hoods	Existing State Amendment Adds an exception for R-2 with less than 16 residents Staff Recommendation: Retain state amendment				Concur with Staff (1/06/22)
507.6.1	507.6.1	Capture and containment test	Accept new language	N	N	N	Adopt (1/06/22)
N/A	510.4	Independent system	Why are references to independent systems being eliminated? IFC?	N	N	N	Concur with deletion (1/06/22)
510.5.5	510.6.5	Makeup air	Accept new language	N	N	N	Adopt (1/06/22)
511.1	511.1	Dust, stock, and refuse conveying system	Accept new language	N	N	N	Adopt (1/06/22)
511.1.5	511.1.5	Explosion control	Accept new language	N	N	N	Adopt (1/06/22)
514.2	514.2	Prohibited applications	Accept new language	Y	N	N	Adopt (1/06/22)
515	515	Waste or linen chute venting	Existing State Amendment Allows chutes to be vented in accordance to either NFPA 82 or the IBC Staff Recommendation: Retain state amendment (but fix the language from "per" to "in accordance with")				Concur with Staff (1/06/22)

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Chapter 6 Duct Systems							
TAG Member Assigned: Tom Jensen, Nancy Bernard							
601.2	601.2	Air movement in egress elements	Accept new language	N	N	N	Adopt (1/06/22)
601.2	601.2	Air movement in egress elements	Existing State Amendment Adds exceptions for engineered smoke control systems and residential occupancies Staff Recommendation: Revise exception 4 to match new IMC/IBC language				Concur with Staff (1/06/22)
601.5	601.5	Return air openings	Accept new language	N	N	N	Adopt (1/06/22)
602.1	602.1	General (Plenums)	Existing State Amendment Clarifying that air systems must be ducted from the air handler to the area served if the system serves multiple fire areas. Staff Recommendation: Retain state amendment (NOTE: there was an additional sentence added in the 2018 code referencing 602.3 for framing cavities used as plenums that was not adopted)				Concur with Staff (1/06/22)
602.2	602.2	Construction	Accept new language	N	N	N	Adopt (1/06/22)
602.2.1.8	602.2.1.8	Pipe and duct insulation within plenums	Accept new language	Y	N	N	Adopt (1/06/22)
603.5.1	603.5.1	Gypsum ducts	Accept new language	N	N	N	Adopt (1/06/22)

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603.5.1	603.5.1	Gypsum ducts	<p>Existing State Amendment</p> <p>Exception added to allow gypsum ducts in other than I-2 for stair or elevator pressurization only</p> <p>Staff Recommendation:</p> <p>Retain existing exception but add the editorial changes from the 2021 IMC</p>				Concur with Staff (1/06/22)
604.3	604.3	Coverings and linings	Accept new language	N	N	N	Adopt (1/06/22)
605.1	605.1	General (Air filters)	<p>Existing State Amendment</p> <p>Adds exception to not require filters upstream for cooling coils</p> <p>Staff Recommendation:</p> <p>Retain the state amendment</p>				Concur with Staff (1/06/22)
605.4	605.4	Particulate matter removal	<p>Existing State Amendment</p> <p>Requires MERV 6 filters for air handlers</p> <p>Staff Recommendation:</p> <p>Retain the state amendment</p>				Concur with Staff (1/06/22)
606.2.1	606.2.1	Return air systems	<p>Existing State Amendment</p> <p>Adds exception to not require smoke detectors for makeup air systems or where all air is exhausted</p> <p>Staff Recommendation:</p> <p>Retain the state amendment</p>				Concur with Staff (1/06/22)
606.2.2	606.2.2	Common supply and return air systems	<p>Existing State Amendment</p> <p>Adds requirements for the control system used to shut down fan powered terminal units</p> <p>Staff Recommendation:</p> <p>Retain the state amendment</p>				Concur with Staff (1/06/22)

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606.2.4/6 06.2.5	606.2.4/6 06.2.5	Corridors serving Group R/not highrise and highrise	Existing State Amendment Adds sections on residential corridor smoke detection requirements Staff Recommendation: Retain the state amendment				Concur with Staff (1/06/22)
607.2	607.2	Installation	Accept new language	N	N	N	Adopt (1/06/22)
607.2.3		Static dampers	Accept new language	N	N	N	Adopt (1/06/22)
607.3.1	607.3.1	Damper testing, ratings and actuation	Accept new language	N	N	N	Adopt (1/06/22)
607.3.3.1	607.3.3.1	Fire damper actuation	Accept new language	N	N	N	Adopt (1/06/22)
607.4	607.4	Access and identification	Accept new language	N	N	N	Adopt (1/06/22)
607.4.1		Access	Accept new language	N	N	N	Adopt (1/06/22)
607.4.1.1		Fire-resistance rating	Accept new language	N	N	N	Adopt (1/06/22)
607.4.1.2		Restricted access	Accept new language	N	N	N	Adopt (1/06/22)
607.4.2		Identification	Accept new language	N	N	N	Adopt (1/06/22)
607.5.2	607.5.2	Fire barriers	Accept new language	N	N	N	Adopt (1/06/22)
607.5.5	607.5.5	Shaft enclosures	Accept new language	Y	N	N	Adopt (1/06/22)
607.5.5.1		Continuous upward flow	Accept new language	Y	N	N	Adopt (1/06/22)
607.5.5.2	607.5.5.1	Enclosure at the bottom	Accept new language	N	N	N	Adopt (1/06/22)
607.6.2.1 .1		Dynamic systems	Accept new language	N	N	N	Adopt (1/06/22)
607.6.2.1 .2		Static systems	Accept new language	N	N	N	Adopt (1/06/22)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
608		Balancing	Accept new language	N	N	N	Adopt (1/06/22)
Chapter 7 Combustion Air							
TAG Member Assigned: Mark Raebel							
			Chapter 7 defers to IFGC and therefor chapter 7 is brief.				
			No updates on this code cycle.				
Chapter 8 Chimneys and Vents							
TAG Member Assigned: Mark Raebel							
801.21	NA	Blocked Vent Switch.	This is an added section for 2021. <ul style="list-style-type: none"> Appears to add requirement that oil fired appliances be equipped with a device to stop burner operation in even of an obstructed vent. Seems like there is potential for nuisance trips. Maybe shut down a system in a cold space that is vacant causing water to freeze. Potentially eliminate potential for buildup of combustion fumes Based on temperature of flue. 	Y	Y	N	Adopt (12/16/21)
804.3.4			walk-way to walkway				Adopt (12/16/21)
805	805		Renumbering of 805 sections. 805.3 thru 805.8 Added 805.3 to factory built fireplaces. Appears to add requirement to comply with UL 127	N	N	N	Adopt. (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
Chapter 9 Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment							
TAG Member Assigned: Mark Raebel							
905.1	905.1		<p>Added following line. "New wood-burning residential hydronic heaters shall be EPA certified.</p> <ul style="list-style-type: none"> • Seems to add cost to produce equipment to meet EPA standards. • Not sure how many solid fuel hydronic boilers are out there. • I do not have much experience with this type of equipment. 	Y	Y	N	Adopt. (12/16/21)
918.2	918.2		<ul style="list-style-type: none"> • Added "or UL/CSA 60335-2-40" • This is a testing and certification standard for equipment with refrigerant. • Appears to be more rigorous testing • Have not been exposed to this level of testing standards appears to be more for manufactures of equipment. 	N		N	Adopt (12/16/21)
920.4	NA		Prohibited uses for unit heaters. Ambulatory care facilities, corridors. Exits access stairways patient sleeping areas.			N	Adopt (1/06/22)
929.1	NA		<p>Unvented alcohol fuel burning appliances. Also added definition for unvented alcohol in section 202.</p> <p>Appears to provide guidance for a new type of product that is becoming popular.</p>	Y		N	Adopt (12/16/21)
930.1	929.1		Revise to be more accurate. Added "ceiling" to clarify large diameter fans.			N	Adopt (12/16/21)
Chapter 10 Boilers, Water Heaters and Pressure Vessels							
TAG Member Assigned: Chris McCarthy							

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
1004	1004	Boilers	Change to "less than" 12,500,000 BTU/hr from "or less"	N		N	Adopt (12/16/21)
1000	1000	Informative Note	Existing Amendment Adds pointer to L&I boiler requirements Staff Recommendation: Retain state amendment Informational note is needed to advise of L&I jurisdiction				Retain (12/16/21)
1001.1	1001.1	Scope	Existing Amendment Helps clarity that boilers are under L&I rules Staff Recommendation: Retain state amendment Same as above, establishes L&I jurisdiction on boilers				Retain (12/16/21)
Chapter 11 Refrigeration							
TAG Member Assigned: Jeff Yirak, Brandon Stock							
1101.1	1101.1	Scope	Clarifies language.	N	N	N	Adopt (12/16/21)
1101.1.1	N/A	Refrigerants other than ammonia	Differentiates between ammonia and non-ammonia refrigeration systems, as ammonia systems are no longer required to comply with this chapter.	N	N	N	Adopt (12/16/21)
1101.1.2	N/A	Ammonia refrigerant	Differentiates between ammonia and non-ammonia refrigeration systems, as ammonia systems are no longer required to comply with this chapter.	N	N	N	Adopt (12/16/21)
1101.2	1101.2	Factory-built equipment and appliances	Provides a table to correlate equipment with relevant UL or UL/CSA standard. Delete Existing State Amendment	N	N	Delete existing amendment	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
Deleted	1101.6	General	Redundant differentiation between ammonia and non-ammonia refrigeration systems, as ammonia systems are no longer required to comply with this chapter. Delete Existing State Amendment	N	N	Delete existing amendment	Adopt (12/16/21)
1101.6	1101.7	Maintenance	Renumbered	N	N	N	Adopt (12/16/21)
1101.7	1101.8	Change in refrigerant type	Renumbered	N	N	N	Adopt (12/16/21)
1101.8	1101.9	Refrigerant discharge	Renumbered	N	N	N	Adopt (12/16/21)
1101.9	1101.10	Locking access port caps	Renumbered	N	N	N	Adopt (12/16/21)
1103.1	1103.1	Refrigerant classification	Added additional and LGW refrigerants. Fixed typographical error on R-452A ppm refrigerant per occupied space. Removed ammonia entry and revised footnotes.	N	N	N	Adopt (12/16/21)
1104.2.2	1104.2.2	Industrial occupancies and refrigerated rooms	References to ammonia removed for consistency.	N	N	N	Adopt (12/16/21)
1104.3.2	1104.3.2	Nonindustrial occupancies	Clarifies definition of type of assembly area	N	N	N	Adopt (12/16/21)
1104.3.3	1104.3.3	All occupancies	References to ammonia removed for consistency.	N	N	N	Adopt (12/16/21)
1104.3.4	1104.3.4	Protection from refrigerant decomposition.	References to ammonia removed for consistency.	N	N	N	Adopt (12/16/21)
1105.6.3	1105.6.3	Ventilation rate	Existing State Amendment References to ammonia removed for consistency.	N	N	Delete existing amendment	Adopt (12/16/21)
Deleted	1105.8	Ammonia discharge	References to ammonia removed for consistency.	N	N	N	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
1105.8	1105.9	Emergency pressure control system	Proposed language defers to IFC. Section 605.10 needs to be updated to 608.11 for 2021 IFC. IFC also refers to ammonia systems; IMC should explicitly except ammonia systems in this article.	N	N	Y	Add explicit exception for ammonia systems when referring to IFC. (12/16/21)
1105.9	N/A	Means of egress	Consolidates existing requirements from the IBC into the IMC for ease of reference.	N	N	N	Adopt (12/16/21)
Deleted	1106.3	Ammonia room ventilation	References to ammonia removed for consistency.	N	N	N	Adopt (12/16/21)
1106.3	1106.4	Flammable refrigerants	Clarification to exception regarding compliant ventilation.	N	N	N	Adopt (12/16/21)
1106.4	1106.5	Special requirements for Group A2L refrigerant machinery rooms	Further qualification of the existing allowance for machinery rooms containing A2L refrigerants to use refrigerant detection and ventilation systems in lieu of Class I, Division 2 hazardous location classification requirements of NFPA 70.	N	N	N	Adopt (12/16/21)
1106.4.1	1106.5.1	Ventilation system activation	Proposed language defers to IFC. Section 605.8 needs to be updated to 608.9 for 2021 IFC. IMC repeats the “at or below a refrigerant concentration” activation condition, but IFC includes an additional refrigerant leak alarm condition.	N	N	Y	Adopt but remove the redundant detection and activation language. (12/16/21)
1106.4.2	1106.5.2	Emergency ventilation system	Existing State Amendment Renumbered Staff recommendation: Retain and renumber existing state amendment Retain per staff recommendation	N	N		Retain state amendment (12/16/21)
1106.4.3	1106.5.3	Emergency ventilation system discharge	Renumbered	N	N	N	Adopt (12/16/21)
1106.5	1106.6	Remote controls	Renumbered	N	N	N	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
1106.5.1	1106.6.1	Refrigeration system emergency shutoff	Renumbered	N	N	N	Adopt (12/16/21)
1106.5.2	1106.6.2	Ventilation system	Renumbered	N	N	N	Adopt (12/16/21)
1106.6	1106.7	Emergency signs and labels	Renumbered	N	N	N	Adopt (12/16/21)
1107.1	New	Piping Material	1107.1 Piping. Refrigerant piping material for other than R-717 (ammonia) systems shall conform to the requirements in this section. Piping material and installations for R-717 (ammonia) refrigeration systems shall comply with IIAR 2.	Y		N	Adopt (12/16/21)
1107.2	New	Used Materials	1107.2 Used materials. Used pipe, fittings, valves and other materials that are to be reused shall be clean and free from foreign materials and shall be approved for reuse.	Y		N	Adopt (12/16/21)
1107.3	New	Materials Rating	1107.3 Materials rating. Materials, joints and connections shall be rated for the operating temperature and pressure of the refrigerant system. Materials shall be suitable for the type of refrigerant and type of lubricant in the refrigerant system. Magnesium alloys shall not be used in contact with any halogenated refrigerants. Aluminum, zinc, magnesium and their alloys shall not be used in contact with R-40 (methyl chloride).	Y		N	Adopt (12/16/21)
1107.4	New	Piping materials standards	1107.4 Piping materials standards. Refrigerant pipe shall conform to one or more of the standards listed in Table 1107.4. The exterior of the pipe shall be protected from corrosion and degradation.	Y		N	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
1107.5	New	Pipe Fittings	1107.5 Pipe fittings. Refrigerant pipe fittings shall be approved for installation with the piping materials to be installed, and shall conform to one of more of the standards listed in Table 1107.5 or shall be <i>listed and labeled</i> as complying with UL 207.	Y		N	Adopt (12/16/21)
1107.6	New	Valves	1107.6 Valves. Valves shall be of materials that are compatible with the type of piping material, refrigerants and oils in the system. Valves shall be <i>listed and labeled</i> and rated for the temperatures and pressures of the refrigerant systems in which the valves are installed.	Y		N	Adopt (12/16/21)
1107.7	New	Flexible connectors, expansion and vibration compensators	1107.7 Flexible connectors, expansion and vibration compensators. Flexible connectors and expansion and vibration control devices shall be <i>listed and labeled</i> for use in refrigerant systems.	Y		N	Adopt (12/16/21)
1108.1,2,3,4,5,6,7,8,9	New	Joints and Connections	New Section – renamed from field test to Joints and connections	Y		N	Adopt (12/16/21)
1109.1,2,3,4,5,6,7,8	New	Refrigerant Pipe Installation	New Section	Y		N	Adopt (12/16/21)
1110.1,2,3,4,5,6,7,8	New	Refrigeration Piping System Testing	New Section	Y		N	Adopt (12/16/21)
1111	New	Periodic Testing	Renumbered section that is not currently in the WAC/RCW	Y	Y	N	Adopt (12/16/21)
Chapter 12 Hydronic Piping							
TAG Member Assigned: Chris McCarthy							

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
1202.4	1202.4	Table 1202.4	Addition of table line for CPVC/AL/CPVC	N		N	Adopt (12/16/21)
1202.5	1202.5	Table 1202.5	Addition of table line for CPVC, as well as removal of 2 ASTM standard references on Plastic line.	N		N	Adopt (12/16/21)
1203.8	NA	CPVC/AL/CPVC joints	Outlines acceptable pipe joints in CPVC/AL/CPVC piping, also adjusts numbering of sections through 1203.17.2	N		N	Adopt (12/16/21)
1203.10.3	1203.9.3	Push Fit Fittings PEX	Changes from EVOH reference to ASSE 1061 and names PEX tubing	N		N	Adopt (12/16/21)
1203.15.3	1203.14.3	Push fit fittings PE-RT	Similar to above but for PE-RT tubing	N		N	Adopt (12/16/21)
1209.5	1209.5	Insulation and thermal break required	Changes verbiage from "thermal barrier required" to insulation and thermal break required?	N			Adopt (12/16/21)
1209.5	1209.5	Thermal barrier	Existing state amendment Staff recommendation: retain state amendment (as shown in the expedited rule) Verbiage change from "thermal barrier" to "insulation and thermal break." Should this be captured?				Retain state amendment, with update to thermal barrier language (12/16/21)
1209.5.2	1209.5.2	Insulation material marking	Changes verbiage from "thermal barrier" to "Insulation material" and adds radiant floor heating.	N		N	Adopt (12/16/21)
1210.6.2	1210.6.2	Prep. of pipe ends	Removes requirement to ream pipe cuts and removes references to pipe type. Adds manufacturers instruction piece.	N		N	Adopt (12/16/21)
1210.7.6	1210.7.6	Expansion tanks	Existing state amendment Adds requirement for draining the expansion tank Staff recommendation: Retain state amendment Retain state amendment				Retain state amendment (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
1210.8	1210.8	Installation	Changes “conditions of approval” to “manufacturers instructions”.	N		N	Adopt (12/16/21)
Chapter 13 Fuel Oil Piping and Storage							
TAG Member Assigned: Staff							
1301.4	Same	Fuel tanks, piping, fittings and valves	Adds “fittings” to the scope.	N	N	N	Adopt (12/16/21)
Table 1302.3	Same	Fuel Oil Piping and Fittings	“Fittings” was added to copper and steel piping rows, and stainless was added to the steel piping and tubing rows, with the appropriate standards added	N	N	N	Adopt (12/16/21)
1302.8	Same	Flexible connectors and hoses	Reference to UL 536 was deleted as irrelevant; replaced with listed and labeled as being acceptable for the application	N	N	N	Adopt (12/16/21)
1302.9	New	Piping systems	Adding a reference standard for stainless steel double containment tubing for both above ground and underground systems	N	N (could decrease cost)	N	Adopt (12/16/21)
1303.3	Same	Joint preparation and installation	Adds press-connect joints	N	N	N	Adopt (12/16/21)
1303.3.2; 1303.3.5	New	Mechanical joints/Press-connect joints	Adds a new section for press-connect joints to distinguish from mechanical joints	N	N	N	Adopt (12/16/21)
1303.4	Same	Copper or copper alloy pipe	Adds press-connect joints as acceptable for copper or copper alloy pipes as currently allowed in the standard referenced in Table 1302.3	N	N	N	Adopt (12/16/21)
1303.5	Same	Copper or copper alloy tubing	Editorial — General language clean up	N	N	N	Adopt (12/16/21)
1303.7/ 1303.8	Same	Steel pipe/Steel tubing	Adds stainless steel and press connect joints to conform with change to Table 1302.3	N	N	N	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
Chapter 14 Solar Thermal Systems							
TAG Member Assigned: Mark Raebel, Brandon Stock							
1402.8.1.2	Same	Rooftop-mounted solar thermal collectors and systems	Added "mounting systems and their attachments to the roof" to the noncombustible requirement in this section. Existing State Amendment Staff recommendation: Delete state amendment; covered by new 2021 language.	N		N	Adopt; remove state amendment. (12/16/21)
1404.1	Same	Collectors	Added clarification to solar collector numbering and verbiage.	N		N	Adopt (12/16/21)
Chapter 15 Referenced Standards							
TAG Member Assigned: Staff							
		ANCE 60335-2-40-2019	Existing State Amendment Retain state amendment (although it is listed under UL without the ANCE reference, but as the 2017 edition)			Y	Retain (12/16/21)
		ANSI/ACCA 10	Adds HVAC standard for swimming pools and spas as referenced in 403.2.1	N	N	N	Adopt (12/16/21)
		ASHRAE 15-2019	Existing State Amendment Delete state amendment—standard is updated to the same version in the 2021 edition			N	Delete amendment (12/16/21)
		ASHRAE 34-2019	Existing State Amendment Delete state amendment—standard is updated to the same version in the 2021 edition			N	Delete amendment (12/16/21)
		ASHRAE 62.2-2016	Existing State Amendment Retain state amendment, but update to 2019			Y	Retain (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
		ASHRAE 90.1	Added as an alternate compliance method in 401.2	N	N	N	Adopt (12/16/21)
		ASME	Four new standards added as referenced in the new refrigerant piping materials and joints and connections sections in Chapter 11: B1.1-2003 Unified Inch Screw Threads B1.13M-2006 Metric Screw Threads B1.20.3-1976 Dryseal Pipe Threads B16.50-2018 Copper & Copper alloy fittings	N	N	N	Adopt (12/16/21)
		ASSE 1079	Corresponds to new refrigeration joints and connections section: Performance requirements for dielectric pipe unions	N	N	N	Adopt (12/16/21)
		ASTM	<ul style="list-style-type: none"> New standards added as referenced in the new refrigerant piping materials and joints and connections sections in Chapter 11: A181/A181M-14 Carbon Steel Forgings A193/A193M-19 Alloy & Stainless Steel Bolting A334/A334M-04a(2016) Seamless and Welded Carbon and Alloy Steel Tubes A707/A707M-19 Forged Carbon and Alloy Steel Flanges B210/B210M-19a Aluminum and Aluminum Alloy Drawn Seamless Tubes B361-16 Factory-made Wrought Aluminum Welding Fittings B491/491M-15 Aluminum Extruded Round Tubes B1003-16 Seamless Copper Tubes for Linesets Various other new standards for Chapters 12 and 13: Ch 12: F2855-12 CPVC-AL-CPVC Composite Pressure Tubing 	N	N	N	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
			F3253-2017 PEX Tubing with Oxygen Barrier Ch13: A240/A240M-17 Chromium and Chromium Nickle Stainless Steel for Pressure Vessels A269-15 Seamless and Welded Austenitic Stainless Steel Pipes A312-17 Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes F3226-16 Metallic Press-Connect Fittings				
		CSA 60335-2-40-2019	Existing State Amendment Retain state amendment (although it is listed under UL without the ANCE reference, but as the 2017 edition)			Y	Retain (12/16/21)
		HVI 915/916/920-2015	Existing State Amendment Retain state amendment but update to the 2020 edition			Y	Retain (12/16/21)
		NFPA	Three new NFPA standard as referenced by other code changes (407.1, 607.4.1.2): 80-19 Standard for Fire Doors and Other Opening Protectives 99-21 Health Care Facilities Code 105-19 Standard for Smoke Door Assemblies and Other Opening Protectives	N	N	N	Adopt (12/16/21)
		NSF	Two new standards as referenced by other code changes (1210.4, 1210.5) and one added missing reference (NSF 14): 14-2017 Plastic Piping System Components and Related Materials	N	N	N	Adopt (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
			358-3-2016 PEX Pipe and Fittings for Water Based Ground Source Heat Pumps 358-4-2017 OE-RT Pipe and Fittings for Water Based Ground Source Heat Pumps				
		SMACNA	Add two missing referenced standards (510.8.1): SMACNA/ANSI—2011 Rectangular Industrial Duct Construction Standards, 2 nd Edition SMACNA/ANSI—2013 Round Industrial Duct Construction Standards, 3 rd Edition	N	N	N	Adopt (12/16/21)
		UL	<ul style="list-style-type: none"> New standards from refrigeration changes: 109-97 Tube fittings for Flammable and Combustible Fluids, Refrigeration Service and Marine Use 427-11 Standard for Refrigerating Units 474-15 Standard for Dehumidifiers 484-14 Standard for Room Air Conditioners New standard based on change to 1302.9: 971A—2006 Outline of Investigation for Metallic Underground Fuel Pipe 1369-18 Standard for Aboveground Piping for Flammable and Combustible Liquids Other new standards: 1370-11 Unvented Alcohol Fuel Burning Decorative Appliances (with revisions through March 25, 2016) (929.1) 8782-17 Outline of Investigation for Pollution Control Units for Commercial Cooking (506.5.2) <p>UL/CSA 60335-2-40-17 Household and Similar Electrical Appliances—Safety—Part 2-40: Particular Requirements for Electrical Heat Pumps, Air- Conditioners</p>	N	N	Y 60335-2-40 Should reference 2019 as in existing state amendment; Reference to 1101.2 for this standard	Adopt as noted (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
			<p>and Dehumidifiers (908.1, 916.1, 918.1, 918.2)</p> <p>UL/CSA 60335-2-89-17 Household and Similar Electrical Appliances—Safety—Part 2-89: Particular Requirements Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor (T 1101.2)</p>				
		General edition updates	<p>AHRI 700, ANSI Z21.1, ANSI/AMCA 210/ASHRAE 51, ASHRAE 62.1/62.2, ASHRAE 180, ASHRAE Fundamentals Handbook, ANSI/ASSP Z359.1, AWWA 151, IBC, ICC 900, ICC 901, IECC, IFC, IFGC, IRC, ANSI/IIAR 3, ANSI/IIAR 4, ANSI/IIAR 5, MSS SP58, NBBI AH116, NSF 358-1, NSF 358-2,</p> <p>ASTM A53, A105, A106, A234, A254, 420, B135, B251, B280, B302, B813, B819, B828, C315, C411, D56, D93, D1785, D2235, D2412, D2466, D2564, D2846, D2996, D3261, E84, E119, E136, E814, E1509, E2231, F438, F879, F877, F1055, F1282, F1548, F1807, F1960, F2159, F2389, F2735, F2769</p> <p>CSA 151, CSA B137.1, B137.2, B137.3, B137.5, B137.6, B137.9, B137.10, B137.11, B137.18, C22.2 No. 218.1, C22.2 No. 236</p> <p>NFPA 1, 30A, 31, 58, 69, 70, 72, 82, 85, 91, 92, 96, 211, 262, 286, 853</p> <p>UL 268, 412, 471, 499, 507, 508, 536, 555, 555C, 555S, 641, 705, 710, 723, 727, 731, 732, 834, 858, 864, 867, 875, 923, 1046, 1240, 1261, 1563, 1618, 1812, 1815, 1820, 1887, 1978, 1995, 2043, 2075, 2158, 2158A, 2523</p>			<p>Y</p> <p>UL 864 (existing amendment) should be updated to standard referenced in 2021 IMC with a reference to Section 606.2.2 added to the citation</p>	Adopt as indicated (12/16/21)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
2021 INTERNATIONAL FUEL GAS CODE							
Chapter 1 Scope and Administration							
TAG Member Assigned: Valerie Graber							
101.2	101.2	Scope	Base code Added "above grade plane and this code" gives designer the ability to design under IBC or IRC. State amendment does not match IMC 101.2. No reference to R occupancies. State amendment Exception 2. Update to 2020 Edition of NFPA 58 (Liquefied Petroleum Gas Code) and the 2021 Edition of ANSI Z223.1/NFPA54 (National Fuel Gas Code)	N	N	Y	Adopt (1/13/22) Scope needs to be consistent with other codes. Val will submit code change
116.4	NA	Failure to comply	Any person who does not stop work after being served a stop work order, with exception, shall be subject to fines established by the authority having jurisdiction. Since authority having jurisdiction isn't defined, recommend modifying to refer to code official in lieu of authority having jurisdiction.	N	N	Y	Adopt with modifications. See IMC 113.4. (1/13/22) Val will submit code change
Chapter 2 Definitions							
TAG Member Assigned: Valerie Graber							
202	202	Point of delivery	Added "system shutoff" and "after" to establish match with prior code language.	N	N	N	Adopt (1/13/22)
202	202	Service meter assembly, System shutoff	Establishing the POD governed by this code. Energy code may require additional metering for natural gas appliances which is not POD.	N	N	N	Adopt (1/13/22)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
202 NEW		Permanent construction	Add the state amendment to be consistent with the IMC and addresses IFGC 306.1. PERMANENT CONSTRUCTION. Construction that, if removed, would disturb the structural integrity of the building or the fire-resistance rating of a building assembly.	N	N	Y	Adopt (1/13/22)
Chapter 3 General Regulations							
TAG Member Assigned: Valerie Graber							
303.3.1	303.3.1	Fireplaces & dec appliances in Group I-2.	2018 prohibits gas appliances in Group I-2 cond 2 (except direct vent in lobbys). No requirements for Group I-2 cond 1. 2020 prohibits gas appliances in Group I-2 cond 2 (except direct vent in lobbys). Prohibits gas appliances in Group I-2 cond 1 sleeping rooms.	Y	N	N	Adopt (1/13/22)
304.8	304.8	Engineered installations / Combustion air.	Modified, "shall be approved" to "determined using engineering methods". Prior the reviewer/inspector took on the responsibility to size the opening but now there must be engineering.	N	N	N	Adopt (1/13/22)
306.5 NEW	306.5	Equipment and appliances on roofs or elevated structures.	Add this state amendment to be consistent with the IMC.	N	N	Y	Adopt (1/13/22)
306.6	306.6	Guards	Added – "and each end of the roof hatch parallel to the roof edge". Consistent with the IMC.	N	N	N	Adopt (1/13/22)
306.7 NEW		Appliances above ceilings	Add this state amendment to be consistent with the IMC.	N	N	Y	Adopt (1/13/22)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
307.2	307.2	Fuel-burning appliances	The termination of concealed condensate piping shall be marked to indicate whether the piping is connected to the primary drain or to the secondary drain. Consistent with the IMC.	N	N	N	Adopt (1/13/22)
Chapter 4 Gas Piping Installations							
TAG Member Assigned: Valerie Graber							
402.3	402.3	Sizing	Changed "and shall be approved" to "engineering methods". Prior the reviewer/inspector took on the responsibility to size the opening but now there must be engineering.	N	N	N	Adopt (1/13/22)
402.6	402.6	Allowable pressure drop	Modified "appliance" to "all appliances".	N	N	N	Adopt (1/13/22)
402.7	402.7	Max operating pressure	Added "listed to ANSI LC-4/CSA6.32 and installation instructions".	N	N	N	Adopt (1/13/22)
403.8.3	403.9.3	Metal pipe threads	Modified "thread joint compounds" to "threaded joint sealing".	N	N	N	Adopt (1/13/22)
404.5	404.5	Fittings in concealed locations	Added "plugs and tees".	Y	N	N	Adopt (1/13/22)
413.2.3	413.2.3	Residential fueling appliances	Added "listed to CSA/ANSI NGV 5.1".	N	N	N	Adopt (1/13/22)
413.2.4	413.2.4	Nonresidential fueling appliances	Added "listed to CSA/ANSI NGV 5.2". Previously code referred to residential only. Consistent with the IFC 2308.2.3.	N	N	N	Adopt (1/13/22)
Chapter 5 Chimneys and Vents							
TAG Member Assigned: Valerie Graber							

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
503.5.6.1	503.5.6.1	Chimney lining	Pervious code allowed existing unlined chimneys to remain if the appliance matched. This has been removed and all existing chimneys must be brought up to code when the appliance is replaced.	Y	Y	N	Adopt (1/13/22)
503.8	503.8	Venting system terminal clearances	Took out the language and replaced it with house figure. Figure was appendix C and it has been updated with a chart.	Y	N	N	Adopt (1/13/22)
503.10.7	503.10.6	Connector junctions	New section to require a Tee or Wye fitting when connecting a vent.	N	N	N	Adopt (1/13/22)
Chapter 6 Specific Appliances							
TAG Member Assigned: Valerie Graber							
614.4.1	614.6	Terminal location	New section – “exhaust termination to 3’ from openings into the building. Gas dry exhaust terminations did not have a distance requirement. It serves as the gas vent”. Much needed section.	Y	N	N	Adopt (1/13/22)
614.7	614.6	Makeup air	All dryer closets need makeup air. Prior only dryers exhausting 200 CFM or more. Problem with 2018 language, cannot control replacement dryers.	Y	Y	N	Adopt (1/13/22)
618.6	618.6	Furnace plenums and air ducts	New text added. “Return air shall not be taken from the mech room containing the furnace.” Return air must be ducted. The code is redundant.	N	N	N	Adopt (1/13/22)
623.2	623.2	Prohibited location	Removed an unnecessary exception.	N	N	N	Adopt (1/13/22)
Chapter 7 Gaseous Hydrogen Systems							
TAG Member Assigned: Valerie Graber							
			No changes in the IFGC Ch7 redline.				

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
Chapter 8 Referenced Standards							
TAG Member Assigned: Valerie Graber							
NFPA	NFPA	NFPA 58-17	This should be NFPA 58-20 to be consistent with IMC, IRC & IFC.	N	N	Y	Amend as indicated (1/13/22)
2021 INTERNATIONAL RESIDENTIAL CODE, Chapters 12 - 24							
Chapter 12 Mechanical Administration							
TAG Member Assigned: Jeff Yirak							
			No changes in the Ch12 redline.				
M1201.1	M1201.1	General	Existing State Amendment Adds reference to NFPA 54 and 58 as required by statute for LP gas installations Staff Recommendation: Update to latest editions of NFPA 54 (2021), NFPA 58 (2020)			Y	Update per staff recommendation (1/06/22)
M1201.3	M1201.3	Construction documents WA only language	Existing State Amendment Requires system information on plans Staff Recommendation: Retain state amendment				Retain per staff recommendation (1/06/22)
M1201.4	M1201.4	Testing WA only language	Existing State Amendment Allows building official to require flow testing Staff Recommendation: Retain state amendment				Retain per staff recommendation (1/06/22)
Chapter 13 General Mechanical System Requirements							
TAG Member Assigned: Mike Lubliner							

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M1301.2	M1301.2	Identification	Existing State Amendment Adds an exception for identification for small fittings to be printed on the packaging Staff Recommendation: Retain state amendment				Retain per staff recommendation (1/06/22)
M1307.2	M1307.2	Anchorage of appliances	Existing State Amendment Requires seismic strapping in accordance with the plumbing code Staff Recommendation: Retain state amendment				Retain per staff recommendation (1/06/22)
M1307.7	NA	Prohibited support	Gypsum board shall not be used as a support base under an appliance	N	N	N	Accept (1/06/22)
Chapter 14 Heating and Cooling Equipment and Appliances							
TAG Member Assigned: Jeff Yirak, Mike Lubliner							
M1402.1	M1402.1	Central Furnaces	Central furnaces shall conform to either UL 1995 or UL/CSA/ANCE 60335-2-40. If there is no cooling coil in the furnace, I don't think the latter will apply. Brings this section in parallel with other sections of the model code.	N	N	N	Accept (1/06/22)
M1411.3.1.2	N/A	Appliance, equipment, and insulation in pans	If the appliance, equipment, or insulation will be damaged if the auxiliary drain pan fills, that portion thereof shall be above the rim of the pan and supports in the pan shall be water resistant and approved.	N	N	N	Accept (1/06/22)
M1411.6	M1411.6	Insulation of refrigerant piping	Reduces minimum insulation level of vapor (suction) lines to R-3 from R-4. This appears to be in conflict with R403.4 Washington State Energy Code – Residential, which would require R-6.	N	N	Y	Make amendment to refer piping insulation requirements to WSEC. Jeff will work on proposal (1/06/22)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M1411.8	N/A	Support of refrigerant piping	Refrigerant piping and tubing shall be securely fastened within 6' of condensing unit. Provides restraint other than by unit connection.	N	N	N	Accept (1/06/22)
M1413.1	M1413.1	General	Existing State Amendment Change reference from IPC to state plumbing code Staff Recommendation: Retain state amendment but fix typo and update section reference			Y	Update per staff recommendation (1/06/22)
Chapter 15 Exhaust Systems							
TAG Member Assigned: Nancy Bernard, Mike Lubliner							
M1502.3	M1502.3	Duct Termination	Accept new language	N	N	N	Adopt (1/06/22)
M1502.4.5		Booster Fans Prohibited	Accept new language	N	N	N	Adopt (1/06/22)
			Accept renumbering	N	N	N	Adopt (1/06/22)
M1503.2.1	M1503.2.1	Open-top broiler exhaust	Existing State Amendment Adds an exception allowing outdoor broiler units without hoods Staff Recommendation: Retain state amendment				Concur with Staff (1/06/22)
M1504.3	M1504.3	Exhaust openings	Existing State Amendment Adds an allowance for combination termination fittings as used with H/ERV Staff Recommendation: Retain state amendment				Concur with Staff (1/06/22)
M1505.1	M1505.1	General	Modify amendment to add new language	N	N	N	Adopt (1/06/22)
M1505.3	M1505.3	Exhaust equipment	Modify amendment to add new language	N	N	N	Adopt (1/06/22)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M1505.4 (and all subsections)	Same	Mechanical ventilation	Existing State Amendment State whole house ventilation requirements Staff Recommendation: Retain state amendment				Retain (1/06/22)
M1505.4.2	M1505.4.2	System controls	Modify amendment to add new language	N	N	N	Adopt (1/06/22)
M1505.4.3	M1505.4.3	Mechanical ventilation rate	Modify amendment to add new language	N	N	N	Adopt (1/06/22)
Table M1505.4.4	Table M1505.4.4	Minimum Required Local Exhaust Rates For One- and Two-Family Dwellings	Modify amendment to add footnote a to Table M1505.4.4(1)	N	N	N	Adopt (1/06/22)
Chapter 16 Duct Systems							
TAG Member Assigned: Nancy Bernard							
M1601.1.1	M1601.1.1	Above-ground ducts systems	Retain state amendment but modify to include new item 7.6, Item 8 and the new sentence at the send of 7.4.	N	N	N	Adopt (1/06/22)
M1601.1.1	M1601.1.1	Above-ground duct systems	Existing State Amendment State amendment is Item 7, not allowing wall cavities and floor spaces to be used as plenum Staff Recommendation: Retain state amendment but modify to include new item 7.6, Item 8 (from 2018) and the new sentence at the send of 7.4.			Y	Concur with Staff (1/06/22)
Chapter 17 Combustion Air							
TAG Member Assigned: Nancy Bernard							
			No changes in the IRC redline.				

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M1701.1	M1701.1	Scope	Existing State Amendment Adds a pointer to Chapter 10 for fireplaces Staff Recommendation: Retain state amendment				Concur with staff (1/06/22)
Chapter 18 Chimneys and Vents							
TAG Member Assigned: Staff							
M1802.4	New	Blocked vent switch	An additional safety device for oil-fired appliances has been added to be consistent with what is required for some gas fired appliances Oil fired appliances shall be equipped with a device that will stop burner operation in the event that the venting system is obstructed. Such device shall have a manual reset and shall be installed in accordance with the manufacturers instructions.	Y	Y	N	Adopt (1/13/22) Most manufacturers do not have this device as part of the venting system on oil fired appliances.
Chapter 19 Special Appliances, Equipment and Systems							
TAG Member Assigned: Andrea Smith							
			No changes in the IRC redline.				
			No existing state amendments				
Chapter 20 Boilers and Water Heaters							
TAG Member Assigned: Chris McCarthy, Brandon Stock							
			No Significant Changes				
M2000	M2000	Informational Note	Existing State Amendment Adds pointer to L&I boiler requirements Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22)

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M2005.1	M2005.1	General	Existing State Amendment Changes reference from IPC to state plumbing code Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22)
Chapter 21 Hydronic Piping							
TAG Member Assigned: Chris McCarthy							
M2101.1 1-31	new	Materials/joints/ equipment	Provisions for ground source heat pump piping extended to all hydronic pipe sections. Consistency is beneficial.	Y		N	(1/13/22)
M2101.3	M2101.3	Protection of potable water	Existing State Amendment Changes reference from IPC to state plumbing code Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22)
M2101.7	M2101.7	Prohibited tee applications	Existing State Amendment Section removed to allow secondary pumping Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22) section not adopted
M2103.3	M2103.3	Piping joints	Existing State Amendment Changes reference from IPC to state plumbing code Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22) more restrictive than IRC
2105.7	2105.7	Preparation of ends	Use manufacturer spec	N		N	accept

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M2105.9	M2105.9	CPVC plastic pipe	Existing State Amendment Changes reference from IPC to state plumbing code Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22) more restrictive than IRC
M2105.14	M2105.14	PVC plastic pipe	Existing State Amendment Changes reference from IPC to state plumbing code Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22) more restrictive than IRC
M2105.18	M2105.18	Protection of potable water	Existing State Amendment Changes reference from IPC to state plumbing code Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22)
M2105.19	M2105.19	Pipe penetrations	Existing State Amendment Changes reference from IPC to state plumbing code				Retain state amendment (1/13/22)
Chapter 22 Special Piping and Storage Systems							
TAG Member Assigned: Staff							
M2202.1	M2202.1	Materials	Adds stainless steel tubing conforming to ASTM A254 or ASTM A269	N	N	N	Adopt (1/13/22)
M2202.2	M2202.2	Joints and fittings	Removes the word "standard" from "Piping shall be connected with standard fittings compatible with the piping material."	N	N	N	Adopt (1/13/22)
Chapter 23 Solar Thermal Energy Systems							
TAG Member Assigned: Mike Lubliner, Brandon Stock							
			No changes in the IRC redline.				

2021 Code Section	2018 Code Section	Title or Subject	Reviewer Comments	Sig. Change (Y/N)	Costs (Y/N)	WA Amend Needed (Y/N)	TAG Comments/ Recommendations to MVE Committee
M2300 etc.	Same	Solar Thermal Energy Systems	Existing State Amendment Changes references from IRC plumbing and IRC energy changes to Washington state references Staff Recommendation: Retain state amendment				Retain state amendment (1/13/22)
Chapter 24 Fuel Gas							
TAG Member Assigned: Valerie Graber							
G2403	G2403	Point of delivery	Added "system shutoff" and "after" to establish match with prior code language.	N	N	N	Adopt (1/13/22)
G2403	G2403	Regulator, Monitoring	New definition for more clarification – now matches IFGC.	N	N	N	Adopt (1/13/22)
G2403	G2403	Service meter assembly, System shutoff	Establishing the POD governed by this code. Energy code may require additional metering for natural gas appliances which is not POD.	N	N	N	Adopt (1/13/22)
G2414.8.3	G2414.9.3	Thread joint sealing	Modification – changed "compound to sealing"	N	N	N	Adopt (1/13/22)
G2415.5	G2415.5	Fittings in concealed locations	Added "plugs and tees".	Y	N	N	Adopt (1/13/22)
G2427.5.5.1	G2427.5.5.1	Chimney lining	Pervious code allowed existing unlined chimneys to remain if the appliance matched. This has been removed and all existing chimneys must be brought up to code when the appliance is replaced.	Y	Y	N	Adopt (1/13/22)
G2427.8	G2427.8	Venting system terminal clearances	Took out the language and replaced it with house figure. Figure was appendix C and it has been updated with a chart.	Y	N	N	Adopt (1/13/22)
G2439.5	G2439.5	Makeup air	All dryer closets need makeup air. Prior only dryers exhausting 200 CFM or more.	Y	Y	N	Adopt (1/13/22)
G2447.2	G2447.2	Prohibited location	Removed an unnecessary exception.	N	N	N	Adopt (1/13/22)

Summary of Review

New IMC Language with economic impact: 8 (highlighted in green)

Existing state amendments retained: 54

Existing state amendments modified: 14

Existing state amendments removed: 6