

IMC Existing Amendment Review

Summary: Last Updated 3/15/2021	Repeal existing state amendment	Keep existing amendment as modified			Keep existing amendment May include renumbering		
WAC	Title or Subject	2018 IMC Number	Existing Amendment Subject	2021 IMC Number	Staff Recommendation	TAG Recommendation	Comments
01 Scope and Administration							
TAG Member:							
51-52-0101	General - Adds reference to NFPA 54 and 58 as required by statute for LP gas installations	101.2	Scope	101.2	Update to latest editions of NFPA 54 (2021), NFPA 58 (2020)		
02 Definitions							
TAG Member:							
51-50-0202	Balanced whole house ventilation		2021 IMC adds a new definition for Balanced ventilation that is similar but missing the second sentence		Remove state amendment. Second sentence is a code exception that should be moved to Chapter 4.		
		<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. [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>					
	Distributed whole house ventilation		WA only language		Retain state amendment		
	Local exhaust		WA only language		Retain state amendment		
	Permanent construction		WA only language		Retain state amendment		
	Relief air		WA only language		Retain state amendment		
	Replacement air		WA only language		Retain state amendment		
	Whole house ventilation system		WA only language		Retain state amendment		
	Ventilation zone		WA only language		Retain state amendment		
03 General Regulations							
TAG Member:							
51-52-0306	Equipment and appliances on roofs or elevated structures	306.5	Modifies heights to match WISHA standards	306.5	Retain state amendment		
	Appliances above ceilings	306.6	WA only language	306.6	Retain state amendment		
51-52-0307							

	Auxiliary and secondary drain systems	307.2.3	Added exception to the requirement for water-level detection devices for unducted fan coil units	307.2.3	Retain state amendment		
	Ductless mini-split system traps	307.2.4.1	Adds allowance for other means of condensate drainage	307.2.4.1	Retain state amendment		
04 Ventilation							
TAG Member:							
51-52-0401							
	Ventilation required	401.2	Reformats section into subsections that point to state requirements	401.2	Retain state amendment		
	Group R occupancies	401.2.1	WA language pointer for whole house ventilation requirements	401.2.1	Retain state amendment		
	Ambulatory care facilities and Group I-2 occupancies	401.2.2	WA amendment pulled from 401.2	401.2.2	Retain state amendment		
	All other occupancies	401.2.3	WA amendment pulled from 401.2	401.2.3	Retain state amendment		
	When required	401.3	Specific charging language for whole house ventilation is added	401.3	Retain state amendment		
	Intake opening location	401.4	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.	401.4	Modify the state amendment to delete the exception to item 3 and replace it with the new 2021 IMC language		
			3. Intake openings shall be located not less than 3 feet (914 mm) below contaminant sources where such sources are located within 10 feet (3048 mm) of the opening. Separation is not required between intake air openings and living space exhaust air openings of an individual dwelling unit or sleeping unit where an approved factory-built intake/exhaust combination termination fitting is used to separate the air streams in accordance with the manufacturer's instruction. <u>Exception: Separation is not required between intake air openings and living space environmental air exhaust air openings of an individual dwelling unit or sleeping unit where a factory-built intake/exhaust combination termination fitting is used to separate the air streams in accordance with the manufacturer's instructions. A minimum of 3 feet (914 mm) separation shall be maintained between other environmental air exhaust outlets and other dwelling or sleeping unit factory-built intake/exhaust combination termination fittings.</u>				
	Testing and balancing	401.7	WA only language allowing the code official to require flow testing	401.7	Modify the state amendment to replace "building official" with "code official"		

[51-52-0403](#)

	Ventilation system	403.1	Removes reference to Group R requirements	403.1	Retain state amendment		
	Outdoor air required	403.2	Adds an allowance for using ASHRAE 62.2	403.2	Retain state amendment		
	Recirculation of air	403.2.1	Deletes the allowance for recirculation of air within footnote b spaces; adds an allowance for recirculating footnote g spaces when returned to an ERV	403.2.1	Modify the state amendment with the 2021 IMC language for item 2		
	Outdoor air and local exhaust airflow rates	403.3	Pointer to whole house ventilation requirements in lieu of IMC requirements	403.3	Retain state amendment		
	Outdoor airflow rate	403.3.1.1	Adds requirements for outdoor air to be ducted to each occupiable space; exception clarified with a backstop	403.3.1.1	Retain state amendment		
	Minimum ventilation rates	Table 403.3.1.1	Adds categories for kitchenettes, elevator lobbies, ice areas, janitor closets; refrigerated spaces moved to workrooms; Group R references whole house section	Table 403.3.1.1	Retain state amendment		
	Multiple zone recirculating systems	403.3.1.1.2.3 (and all subsections)	Replaces all the multiple-space language and equations with the requirements from ASHRAE 62.1	Same	Retain state amendment		
	Group R-2, R-3 and R-4 occupancies	403.3.2 (and all subsections)	Pointer to whole house ventilation requirements in lieu of IMC requirements	Same	Retain state amendment		
	Whole house ventilation	403.4 (and all subsections)	State whole house ventilation requirements	Same	Retain state amendment		
51-52-0404	Automobile repair facilities	404.3	Requires exhaust extension ducts to be furnished at each repair bay and all offices and waiting rooms to be under positive pressure	404.3	Retain state amendment		

51-52-0407	General (ambulatory care facilities)	407.1	Pointer to the DOH requirements	407.1	Retain state amendment			
05 Exhaust Systems								
TAG Member:								
51-52-0501	Location of exhaust outlet	501.3.1	Adds specific requirements for enclosed parking garages and transformer vaults; also adds three exceptions to environmental air exhaust requirements	501.3.1	Modify the state amendment with the 2021 IMC language for item 3 allowing combination termination fittings			
	Pressure equalization	501.4	Adds an exception for residential range, dryer and local exhaust	501.4	Retain state amendment			
51-52-0504	Exhaust installation	504.4	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	504.4	Retain state amendment			
	Common exhaust systems for clothes dryers in multistory structures	504.1	Item 9 is amended for clarity	504.11	Retain state amendment but renumber			
51-52-0505	Exhaust ducts	505.3	Original proposal was to allow ducts to terminate at a common exhaust when equipped individually with backdraft dampers	505.3	Revise to update with new language introduced in 2015 while keeping the last two sentences of the state amendment			
			505.3 Exhaust ducts. Domestic cooking exhaust equipment Where domestic range hoods and domestic appliances equipped with downdraft exhaust are provided, such hoods and appliances shall discharge to the outdoors through sheet metal ducts constructed of galvanized steel, stainless steel, aluminum or copper. Such ducts shall have smooth inner walls, shall be air tight, shall be equipped with a backdraft damper and shall be independent of all other exhaust systems. Installations in Group I-1 and I-2 occupancies shall be in accordance with the <i>International Building Code</i> and <i>Section 904.13 of the International Fire Code</i>.					
			Domestic kitchen exhaust ducts may terminate with other domestic dryer exhaust and residential local exhaust ducts at a common location where each duct has an independent back-draft damper.					
			Listed and labeled exhaust booster fans shall be permitted when installed in accordance with the manufacturer's installation instructions.					
			Exceptions:					
			In other than Group I-1 and I-2, where installed in accordance with the manufacturer's installation instructions and where mechanical or natural ventilation is otherwise provided in accordance with					

51-52-0506	Vibration isolation	506.3.2.4	Allows an option for fan flexible connectors per Section 506.3.2.3	506.3.2.4	Retain state amendment		
	Grease duct cleanout location, spacing and installation	506.3.9 (and subsections)	Adds requirements for vertical cleanouts	Same	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.)		
	Grease duct enclosures	506.3.11	Sets the maximum at 2 hr fire resistance rating	506.3.11	Retain state amendment		
51-52-0507	Domestic Cooking appliances used for commercial purposes	507.1.2	Adds a table specifying when a residential hood is allowed--same amendment is in the fire code	507.1.2	Retain state amendment		
	Type I hoods	507.2	Adds an exception for R-2 with less than 16 residents	507.2	Retain state amendment		
51-25-0515	Waste or linen chute venting	515	Allows chutes to be vented in accordance to either NFPA 82 or the IBC	515	Retain state amendment (but fix the language from "per" to "in accordance with")		
06 Duct Systems							
TAG Member:							
51-52-0601	Air movement in egress elements	601.2	Adds exceptions for engineered smoke control systems and residential occupancies	601.2	Revise exception 4 to match new IMC/IBC language		
51-52-0602	General (Plenums)	602.1	Clarifying that air systems must be ducted from the air handler to the area served if the system serves multiple fire areas.	602.1	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)		
51-52-0603	Gypsum ducts	603.5.1	Exception added to allow gypsum ducts in other than I-2 for stair or elevator pressurization only	603.5.1	Retain existing exception but add the editorial changes from the 2021 IMC		
51-52-0605	General (Air filters)	605.1	Adds exception to not require filters upstream for cooling coils	605.1	Retain the state amendment		
	Particulate matter removal	605.4	Requires MERV 6 filters for air handlers	605.4	Retain the state amendment		

51-52-0606	Return air systems	606.2.1	Adds exception to not require smoke detectors for makeup air systems or where all air is exhausted	606.2.1	Retain the state amendment		
	Common supply and return air systems	606.2.2	Adds requirements for the control system used to shut down fan powered terminal units	606.2.2	Retain the state amendment		
	Corridors serving Group R/not highrise and highrise	606.2.4/606.2.5	Adds sections on residential corridor smoke detection requirements	606.2.4/606.2.5	Retain the state amendment		
07 Combustion Air							
TAG Member:							
	- None -						
08 Chimneys and Vents							
TAG Member:							
	- None -						
09 Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment							
TAG Member:							
	- None -						
10 Boilers, Water Heaters and Pressure Vessels							
TAG Member:							
51-52-1000	Informational Note	1000	Adds pointer to L&I boiler requirements	same	Retain state amendment		
51-52-1000	Scope	1001.1	Helps clarify that boilers are under L&I rules	1001.1	Retain state amendment		
11 Refrigeration							
TAG Member:							
51-52-1101	General (Refrigeration)	1101.2/1101.6	Adding references for LGW refrigerant standards	Same	Delete state amendment; covered by model code		Note: There is an expedited rule in progress for this section
51-52-1105	Ventilation rate	1105.6.3	Adds a missing phrase to the ammonia ventilation requirements	1105.6.3	Delete state amendment - sentence removed from model code		
51-52-1106	Emergency ventilation system	1106.5.2	Corrects a reference in the table--from R143 to R143a	1106.4.3	Retain state amendment but renumber		

12 Hydronic Piping							
TAG Member:							
51-52-1200	Thermal barrier required	1209.5		1209.5	Retain state amendment (as fixed in the expedited rule)		Note: There is an expedited rule in progress for this section
		WAC 51-52-1200 Chapter 12—Hydronic piping. 1209.5 Thermal barrier required. Radiant floor heating and snow melt systems shall be provided with a thermal barrier in accordance with Sections 1209.5.1 and 1209.5.2. Concrete slab-on-grade, asphalt and paver-system type pavements shall have a minimum of R-10 insulation installed under the area to be snow melted, or R-5 insulation shall be installed under and at the slab edges of the area to be snow melted. The insulation shall be located underneath the snow and ice melt hydronic piping or cable and along all edges of the pavement where the snow and ice melt system is installed in accordance with the snow and ice melt manufacturer's instructions. <u>Insulation R-values for slab-on-grade and suspended floor insulation shall be in accordance with the Washington State Energy Code.</u>					
51-52-1200	Slab-on-grade installation	1209.5.1	(Deleted in expedited rule--text is now in 1209.5)	1209.5.1	(Deleted in expedited rule)		
51-52-1200	Expansion tanks	1210.7.6	Adds requirement for draining the expansion tank	1210.7.6	Retain state amendment		
13 Fuel Oil Piping and Storage							
TAG Member:							
	- None -						
14 Solar Thermal Systems							
TAG Member:							
51-52-1400	Rooftop-mounted solar thermal collectors and systems	1402.8.1.2	Replaced supporting construction with mounting systems & attachments	1402.8.1.2	Delete state amendment--covered in model code		
15 Referenced Standards							
TAG Member:							
51-52-1500	Referenced Standards						
	ANCE 60335-2-40-2019				Retain state amendment (although it is listed under UL without the ANCE reference, but as the 2017 edition)		
	ASHRAE 15-2019				Delete state amendment		
	ASHRAE 34-2019				Delete state amendment		
	ASHRAE 62.2-2016				Retain state amendment but update to 2019 edition		

	CSA 60335-2-40-2019				Retain state amendment (although it is listed under UL a without the ANCE reference, but as the 2017 edition)		
	HVI 915/916/920-2015				Retain state amendment but update to 2020 edition		
	UL 864-03				Retain state amendment but update to 2014/October 2018 edition and just add the reference to Section 606.2.2		
	UL/CSA/ANCE 60335-2-40- 2019				Retain state amendment (although it is listed under UL a without the ANCE reference, but as the 2017 edition)		

IRC Mechanical Existing Amendment Review

Summary:	Repeal existing state amendment	Keep existing amendment as modified	Keep existing amendment May include renumbering
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WAC	Title or Subject	2018 IRC Number	Title or Subject	2021 IRC Number	TAG Member Recommendation	TAG Recommendation	Comments
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Chapter 12 Mechanical Administration

TAG Member Assigned:

51-51-1201	Scope	M1201.1	General - Adds reference to NFPA 54 and 58 as required by statute for LP gas installations	M1201.1	Update to latest editions of NFPA 54 (2021), NFPA 58 (2020)		
51-51-1201	Construction documents	M1201.3	WA only language--Requires system information on plans	M1201.3	Retain state amendment		
51-51-1201	Testing	M1201.4	WA only language--Allows building official to require flow testing	M1201.4	Retain state amendment		

Chapter 13 General Mechanical Requirements

TAG Member Assigned:

51-51-1301	Identification	M1301.2	Adds an exception for identification for small fittings to be printed on packaging	M1301.2	Retain state amendment		
51-51-1307	Anchorage of appliances	M1307.2	Requires seismic strapping in accordance with the plumbing code	C1307.2	Retain state amendment		

Chapter 14 Heating and Cooling Equipment and Appliances

TAG Member Assigned:

51-51-1413	General	M1413.1	Changes reference from IPC to state plumbing code	M1413.1	Retain state amendment (but fix typo and update section reference)		
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Chapter 15 Exhaust Systems

TAG Member Assigned:

51-51-1503	Open-top broiler exhaust	M1503.2.1	Adds an exception allowing outdoor broiler units without hoods	M1503.2.1	Retain state amendment		
51-51-1504	Exhaust openings	M1504.3	Adds an allowance for H/ERV installed per MII	M1504.3	Retain state amendment		
51-51-1505	Mechanical ventilation	M1505.4 (and all subsections)	State whole house ventilation requirements	Same	Retain state amendment		

Chapter 16 Duct Systems

TAG Member Assigned:

51-51-1600	Above-ground duct systems	M1601.1.1	State amendment is Item 7, not allowing wall cavities and floor spaces to be used as plenum	M1601.1.1	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.		
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Chapter 17 Combustion Air

TAG Member Assigned:

51-51-1700	Scope	M1701.1	Adds a pointer to Chapter 10 for fireplaces	M1701.1	Retain state amendment		
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Chapter 20 Boilers and Water Heaters

TAG Member Assigned:

51-51-2000	Informational Note	M2000	Adds pointer to L&I boiler requirements	same	Retain state amendment		
51-51-2000	General	M2005.1	Changes reference from IPC to state plumbing code	M2005.1	Retain state amendment		

Chapter 21 Hydronic Piping

TAG Member Assigned:

51-51-2101	Protection of potable water	M2101.3	Changes reference from IPC to state plumbing code	M2101.3	Retain state amendment		
51-51-2101	Prohibited tee applications	M2101.7	Section removed to allow secondary pumping	M2101.7	Retain state amendment		
51-51-2103	Piping joints	M2103.3	Changes reference from IPC to state plumbing code	M2103.3	Retain state amendment		
51-51-2105	CPVC plastic pipe	M2105.9	Changes reference from IPC to state plumbing code	M2105.9	Retain state amendment		
51-51-2105	PVC plastic pipe	M2105.14	Changes reference from IPC to state plumbing code	M2105.14	Retain state amendment		
51-51-2105	Protection of potable water	M2105.18	Changes reference from IPC to state plumbing code	M2105.18	Retain state amendment		
51-51-2105	Pipe penetrations	M2105.19	Changes reference from IPC to state plumbing code	M2105.19	Retain state amendment		

Chapter 23 Solar Thermal Energy Systems

TAG Member Assigned:

51-51-2300	Solar Thermal Energy Systems	M2300 etc	Changes references from IRC plumbing and IRC energy changes to Washington state references	Same	Retain state amendments		
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Chapter 24 Fuel Gas

TAG Member Assigned:

IFGC Existing Amendment Review

IFGC Existing Amendment Review							
Summary:	Repeal existing state amendment		Keep existing amendment as modified			Keep existing amendment May include renumbering	
WAC	Title or Subject	2018 IFGC Number	Title or Subject	2021 IFGC Number	TAG Member Recommendation	TAG Recommendation	Comments
TAG Member:							
51-52-21101	General - Adds reference to NFPA 54 and 58 as required by statute for LP gas installations	101.2	Scope	101.2	Update to latest editions of NFPA 54 (2021), NFPA 58 (2020)		